

ANALYTICAL REPORT

PREPARED FOR

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City & County of Honolulu
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JOB DESCRIPTION

INTERA - Red-Hill-Incident
Site H1 PFAS 1633

JOB NUMBER

380-206596-1

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Job Notes

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

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

Compliance Statement

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

Authorization



Authorized for release by
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Definitions/Glossary

Client: City & County of Honolulu
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-206596-1
SDG: Site H1 PFAS 1633

Qualifiers

LCMS

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
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: INTERA - Red-Hill-Incident

Job ID: 380-206596-1

Job ID: 380-206596-1

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Job Narrative 380-206596-1

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 sample was received on 4/7/2026 9:20 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.0°C.

PFAS

Method QSM B-24: If aqueous samples were extracted beyond 7 days from collection, NMeFOSE, NEtFOSE, NMeFOSAA, and NEtFOSAA may be affected. If soil or tissue samples were extracted beyond 3 days from collection, NFDHA may be affected. If sample extracts, regardless of matrix, were analyzed beyond 28 days from extraction, 9Cl-PF3ONS and 11Cl-PF3OUdS may be affected. Per DoD Environmental Data Quality Workgroup Memorandum dated March 27, 2025, none of these analytes have associated regulatory limits or toxicity factors, thus any additional uncertainty associated with a holding time exceedance for these analytes will not affect current decision making and the DoD is willing to accept any additional uncertainty.

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: INTERA - Red-Hill-Incident

Job ID: 380-206596-1
SDG: Site H1 PFAS 1633

Client Sample ID: BWS2253-H1-AQ

Lab Sample ID: 380-206596-1

No Detections.

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This Detection Summary does not include radiochemical test results.

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Client Sample Results

Client: City & County of Honolulu
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-206596-1
SDG: Site H1 PFAS 1633

Client Sample ID: BWS2253-H1-AQ

Lab Sample ID: 380-206596-1

Date Collected: 04/06/26 12:30

Matrix: Water

Date Received: 04/07/26 09:20

Method: DoD 6.0 QSM B-24 - PFAS for QSM 6.0, Table B-24

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.8		2.8	ng/L		04/08/26 19:51	04/11/26 14:37	1
Perfluoropentanoic acid (PFPeA)	<1.4		1.4	ng/L		04/08/26 19:51	04/11/26 14:37	1
Perfluorohexanoic acid (PFHxA)	<1.4		1.4	ng/L		04/08/26 19:51	04/11/26 14:37	1
Perfluoroheptanoic acid (PFHpA)	<1.4		1.4	ng/L		04/08/26 19:51	04/11/26 14:37	1
Perfluorooctanoic acid (PFOA)	<1.4		1.4	ng/L		04/08/26 19:51	04/11/26 14:37	1
Perfluorononanoic acid (PFNA)	<1.4		1.4	ng/L		04/08/26 19:51	04/11/26 14:37	1
Perfluorodecanoic acid (PFDA)	<1.4		1.4	ng/L		04/08/26 19:51	04/11/26 14:37	1
Perfluoroundecanoic acid (PFUnA)	<1.4		1.4	ng/L		04/08/26 19:51	04/11/26 14:37	1
Perfluorododecanoic acid (PFDoA)	<1.4		1.4	ng/L		04/08/26 19:51	04/11/26 14:37	1
Perfluorotridecanoic acid (PFTriDA)	<1.4		1.4	ng/L		04/08/26 19:51	04/11/26 14:37	1
Perfluorotetradecanoic acid (PFTeDA)	<1.4		1.4	ng/L		04/08/26 19:51	04/11/26 14:37	1
Perfluorobutanesulfonic acid (PFBS)	<2.8		2.8	ng/L		04/08/26 19:51	04/11/26 14:37	1
Perfluoropentanesulfonic acid (PFPeS)	<1.4		1.4	ng/L		04/08/26 19:51	04/11/26 14:37	1
Perfluorohexanesulfonic acid (PFHxS)	<1.4		1.4	ng/L		04/08/26 19:51	04/11/26 14:37	1
Perfluoroheptanesulfonic acid (PFHpS)	<1.4		1.4	ng/L		04/08/26 19:51	04/11/26 14:37	1
Perfluorooctanesulfonic acid (PFOS)	<1.4		1.4	ng/L		04/08/26 19:51	04/11/26 14:37	1
Perfluorononanesulfonic acid (PFNS)	<1.4		1.4	ng/L		04/08/26 19:51	04/11/26 14:37	1
Perfluorodecanesulfonic acid (PFDS)	<1.4		1.4	ng/L		04/08/26 19:51	04/11/26 14:37	1
Perfluorododecanesulfonic acid (PFDoS)	<1.4		1.4	ng/L		04/08/26 19:51	04/11/26 14:37	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.8		2.8	ng/L		04/08/26 19:51	04/11/26 14:37	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.8		2.8	ng/L		04/08/26 19:51	04/11/26 14:37	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.8		2.8	ng/L		04/08/26 19:51	04/11/26 14:37	1
Perfluorooctanesulfonamide (PFOSA)	<1.4		1.4	ng/L		04/08/26 19:51	04/11/26 14:37	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	<1.4		1.4	ng/L		04/08/26 19:51	04/11/26 14:37	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	<1.4		1.4	ng/L		04/08/26 19:51	04/11/26 14:37	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.4		1.4	ng/L		04/08/26 19:51	04/11/26 14:37	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.4		1.4	ng/L		04/08/26 19:51	04/11/26 14:37	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	<7.1		7.1	ng/L		04/08/26 19:51	04/11/26 14:37	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	<7.1		7.1	ng/L		04/08/26 19:51	04/11/26 14:37	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.1		1.1	ng/L		04/08/26 19:51	04/11/26 14:37	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.4		1.4	ng/L		04/08/26 19:51	04/11/26 14:37	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<1.4		1.4	ng/L		04/08/26 19:51	04/11/26 14:37	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<1.4		1.4	ng/L		04/08/26 19:51	04/11/26 14:37	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<1.4		1.4	ng/L		04/08/26 19:51	04/11/26 14:37	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.4		1.4	ng/L		04/08/26 19:51	04/11/26 14:37	1

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Client Sample Results

Client: City & County of Honolulu
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-206596-1
SDG: Site H1 PFAS 1633

Client Sample ID: BWS2253-H1-AQ

Lab Sample ID: 380-206596-1

Date Collected: 04/06/26 12:30

Matrix: Water

Date Received: 04/07/26 09:20

Method: DoD 6.0 QSM B-24 - PFAS for QSM 6.0, Table B-24 (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	<1.4		1.4	ng/L		04/08/26 19:51	04/11/26 14:37	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFESA)	<1.4		1.4	ng/L		04/08/26 19:51	04/11/26 14:37	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<2.8		2.8	ng/L		04/08/26 19:51	04/11/26 14:37	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<7.1		7.1	ng/L		04/08/26 19:51	04/11/26 14:37	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<7.1		7.1	ng/L		04/08/26 19:51	04/11/26 14:37	1
Isotope Dilution	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C4 PFBA	115		5 - 130			04/08/26 19:51	04/11/26 14:37	1
13C5 PFPeA	118		40 - 130			04/08/26 19:51	04/11/26 14:37	1
13C5 PFHxA	96.4		40 - 130			04/08/26 19:51	04/11/26 14:37	1
13C4 PFHpA	112		40 - 130			04/08/26 19:51	04/11/26 14:37	1
13C8 PFOA	107		40 - 130			04/08/26 19:51	04/11/26 14:37	1
13C9 PFNA	107		40 - 130			04/08/26 19:51	04/11/26 14:37	1
13C6 PFDA	99.1		40 - 130			04/08/26 19:51	04/11/26 14:37	1
13C7 PFUnA	97.5		30 - 130			04/08/26 19:51	04/11/26 14:37	1
13C2 PFDoA	80.5		10 - 130			04/08/26 19:51	04/11/26 14:37	1
13C2 PFTeDA	80.2		10 - 130			04/08/26 19:51	04/11/26 14:37	1
13C6 PFTriDA	75.9		20 - 150			04/08/26 19:51	04/11/26 14:37	1
13C3 PFBS	104		40 - 135			04/08/26 19:51	04/11/26 14:37	1
13C3 PFHxS	107		40 - 130			04/08/26 19:51	04/11/26 14:37	1
13C8 PFOS	97.8		40 - 130			04/08/26 19:51	04/11/26 14:37	1
13C8 PFOSA	89.2		40 - 130			04/08/26 19:51	04/11/26 14:37	1
d3-NMeFOSAA	97.2		40 - 170			04/08/26 19:51	04/11/26 14:37	1
d5-NEtFOSAA	93.4		25 - 135			04/08/26 19:51	04/11/26 14:37	1
13C2 4:2 FTS	107		40 - 200			04/08/26 19:51	04/11/26 14:37	1
13C2 6:2 FTS	96.4		40 - 200			04/08/26 19:51	04/11/26 14:37	1
13C2 8:2 FTS	86.6		40 - 300			04/08/26 19:51	04/11/26 14:37	1
13C3 HFPO-DA	99.7		40 - 130			04/08/26 19:51	04/11/26 14:37	1
d7-N-MeFOSE-M	72.8		10 - 130			04/08/26 19:51	04/11/26 14:37	1
d9-N-EtFOSE-M	67.6		10 - 130			04/08/26 19:51	04/11/26 14:37	1
d5-NEtPFOSA	67.3		10 - 130			04/08/26 19:51	04/11/26 14:37	1
d3-NMePFOSA	75.1		10 - 130			04/08/26 19:51	04/11/26 14:37	1
13C3-3:3 FTCA	120		20 - 150			04/08/26 19:51	04/11/26 14:37	1
13C3-5:3 FTCA	105		20 - 150			04/08/26 19:51	04/11/26 14:37	1

Action Limit Summary

Client: City & County of Honolulu
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-206596-1
SDG: Site H1 PFAS 1633

Client Sample ID: BWS2253-H1-AQ

Lab Sample ID: 380-206596-1

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			
Perfluorooctanoic acid (PFOA)	<1.4		ng/L	4	1.4	QSM B-24	Total/NA
Perfluorononanoic acid (PFNA)	<1.4		ng/L	10	1.4	QSM B-24	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	<1.4		ng/L	10	1.4	QSM B-24	Total/NA
Perfluorooctanesulfonic acid (PFOS)	<1.4		ng/L	4	1.4	QSM B-24	Total/NA
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.1		ng/L	10	1.1	QSM B-24	Total/NA

Isotope Dilution Summary

Client: City & County of Honolulu
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-206596-1
SDG: Site H1 PFAS 1633

Method: QSM B-24 - PFAS for QSM 6.0, Table B-24

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFBA (5-130)	PFPeA (40-130)	13C5PHA (40-130)	C4PFHA (40-130)	C8PFOA (40-130)	C9PFNA (40-130)	C6PFDA (40-130)	13C7PUA (30-130)
320-131398-A-18-B MS	Matrix Spike	101	96.1	94.1	88.9	90.1	90.8	85.2	88.2
320-131398-A-18-C MSD	Matrix Spike Duplicate	120	122	110	110	110	107	101	106
380-206596-1	BWS2253-H1-AQ	115	118	96.4	112	107	107	99.1	97.5
LCS 320-910855/3-A	Lab Control Sample	108	114	99.3	94.5	97.8	102	99.2	105
LLCS 320-910855/2-A	Lab Control Sample	107	108	97.0	90.2	92.9	98.3	90.9	96.0
MB 320-910855/1-A	Method Blank	112	113	98.1	97.5	101	99.7	94.0	101

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFDaA (10-130)	PFTDA (10-130)	C6PFTTrDA (20-150)	C3PFBS (40-135)	C3PFHS (40-130)	C8PFOS (40-130)	PFOSA (40-130)	d3NMFOS (40-170)
320-131398-A-18-B MS	Matrix Spike	82.8	90.7	82.5	91.6	86.7	87.5	77.9	87.7
320-131398-A-18-C MSD	Matrix Spike Duplicate	97.6	99.7	94.3	114	107	99.9	89.4	107
380-206596-1	BWS2253-H1-AQ	80.5	80.2	75.9	104	107	97.8	89.2	97.2
LCS 320-910855/3-A	Lab Control Sample	101	107	99.4	99.5	97.6	96.8	85.9	100
LLCS 320-910855/2-A	Lab Control Sample	87.5	92.6	86.1	98.3	93.6	88.6	81.0	94.0
MB 320-910855/1-A	Method Blank	95.9	99.5	92.5	101	95.4	89.3	76.6	93.1

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	d5NEFOS (25-135)	M242FTS (40-200)	M262FTS (40-200)	M282FTS (40-300)	HFPODA (40-130)	NMFM (10-130)	NEFM (10-130)	d5NPFSA (10-130)
320-131398-A-18-B MS	Matrix Spike	86.9	122	92.9	77.3	79.9	67.6	62.7	69.2
320-131398-A-18-C MSD	Matrix Spike Duplicate	102	195	125	92.7	98.6	71.8	67.7	77.0
380-206596-1	BWS2253-H1-AQ	93.4	107	96.4	86.6	99.7	72.8	67.6	67.3
LCS 320-910855/3-A	Lab Control Sample	98.3	92.5	92.2	84.7	89.0	80.1	77.4	80.5
LLCS 320-910855/2-A	Lab Control Sample	92.4	98.7	85.5	82.6	81.2	73.7	71.2	71.7
MB 320-910855/1-A	Method Blank	90.9	90.6	93.4	80.8	86.1	73.0	70.3	67.9

		Percent Isotope Dilution Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	d3NMFSA (10-130)	3-3:3 FTC/ (20-150)	3-5:3 FTC/ (20-150)
320-131398-A-18-B MS	Matrix Spike	72.2	104	79.9
320-131398-A-18-C MSD	Matrix Spike Duplicate	82.6	126	99.7
380-206596-1	BWS2253-H1-AQ	75.1	120	105
LCS 320-910855/3-A	Lab Control Sample	80.5	110	94.1
LLCS 320-910855/2-A	Lab Control Sample	74.4	106	88.8
MB 320-910855/1-A	Method Blank	67.6	111	94.5

Surrogate Legend

PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
13C5PHA = 13C5 PFHxA
C4PFHA = 13C4 PFHpA
C8PFOA = 13C8 PFOA
C9PFNA = 13C9 PFNA
C6PFDA = 13C6 PFDA
13C7PUA = 13C7 PFUnA
PFDaA = 13C2 PFDaA
PFTDA = 13C2 PFTeDA
C6PFTTrDA = 13C6 PFTTrDA
C3PFBS = 13C3 PFBS
C3PFHS = 13C3 PFHxS
C8PFOS = 13C8 PFOS

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Isotope Dilution Summary

Client: City & County of Honolulu
Project/Site: INTERA - Red-Hill-Incident

PFOSA = 13C8 PFOSA
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
M242FTS = 13C2 4:2 FTS
M262FTS = 13C2 6:2 FTS
M282FTS = 13C2 8:2 FTS
HFPODA = 13C3 HFPO-DA
NMFm = d7-N-MeFOSE-M
NEFM = d9-N-EtFOSE-M
d5NPFSA = d5-NEtPFOSA
d3NMFSA = d3-NMePFOSA
C3-3:3 FTCA = 13C3-3:3 FTCA
C3-5:3 FTCA = 13C3-5:3 FTCA

Job ID: 380-206596-1
SDG: Site H1 PFAS 1633

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QC Sample Results

Client: City & County of Honolulu
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-206596-1
SDG: Site H1 PFAS 1633

Method: QSM B-24 - PFAS for QSM 6.0, Table B-24

Lab Sample ID: MB 320-910855/1-A

Matrix: Water

Analysis Batch: 911143

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 910855

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<4.0		4.0	ng/L		04/08/26 19:51	04/11/26 07:13	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		04/08/26 19:51	04/11/26 07:13	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		04/08/26 19:51	04/11/26 07:13	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		04/08/26 19:51	04/11/26 07:13	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		04/08/26 19:51	04/11/26 07:13	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		04/08/26 19:51	04/11/26 07:13	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		04/08/26 19:51	04/11/26 07:13	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		04/08/26 19:51	04/11/26 07:13	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		04/08/26 19:51	04/11/26 07:13	1
Perfluorotridecanoic acid (PFTriDA)	<2.0		2.0	ng/L		04/08/26 19:51	04/11/26 07:13	1
Perfluorotetradecanoic acid (PFTeDA)	<2.0		2.0	ng/L		04/08/26 19:51	04/11/26 07:13	1
Perfluorobutanesulfonic acid (PFBS)	<4.0		4.0	ng/L		04/08/26 19:51	04/11/26 07:13	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		04/08/26 19:51	04/11/26 07:13	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		04/08/26 19:51	04/11/26 07:13	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		04/08/26 19:51	04/11/26 07:13	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		04/08/26 19:51	04/11/26 07:13	1
Perfluorononanesulfonic acid (PFNS)	<2.0		2.0	ng/L		04/08/26 19:51	04/11/26 07:13	1
Perfluorodecanesulfonic acid (PFDS)	<2.0		2.0	ng/L		04/08/26 19:51	04/11/26 07:13	1
Perfluorododecanesulfonic acid (PFDoS)	<2.0		2.0	ng/L		04/08/26 19:51	04/11/26 07:13	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<4.0		4.0	ng/L		04/08/26 19:51	04/11/26 07:13	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<4.0		4.0	ng/L		04/08/26 19:51	04/11/26 07:13	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<4.0		4.0	ng/L		04/08/26 19:51	04/11/26 07:13	1
Perfluorooctanesulfonamide (PFOSA)	<2.0		2.0	ng/L		04/08/26 19:51	04/11/26 07:13	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	<2.0		2.0	ng/L		04/08/26 19:51	04/11/26 07:13	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	<2.0		2.0	ng/L		04/08/26 19:51	04/11/26 07:13	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		04/08/26 19:51	04/11/26 07:13	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		04/08/26 19:51	04/11/26 07:13	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	<10		10	ng/L		04/08/26 19:51	04/11/26 07:13	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	<10		10	ng/L		04/08/26 19:51	04/11/26 07:13	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.5		1.5	ng/L		04/08/26 19:51	04/11/26 07:13	1
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		04/08/26 19:51	04/11/26 07:13	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		04/08/26 19:51	04/11/26 07:13	1
Nonfluoro-3,6-dioxahexanoic acid (NFDHA)	<2.0		2.0	ng/L		04/08/26 19:51	04/11/26 07:13	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		04/08/26 19:51	04/11/26 07:13	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<2.0		2.0	ng/L		04/08/26 19:51	04/11/26 07:13	1

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QC Sample Results

Client: City & County of Honolulu
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-206596-1
SDG: Site H1 PFAS 1633

Method: QSM B-24 - PFAS for QSM 6.0, Table B-24 (Continued)

Lab Sample ID: MB 320-910855/1-A

Matrix: Water

Analysis Batch: 911143

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 910855

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	<2.0		2.0	ng/L		04/08/26 19:51	04/11/26 07:13	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		2.0	ng/L		04/08/26 19:51	04/11/26 07:13	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<4.0		4.0	ng/L		04/08/26 19:51	04/11/26 07:13	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<10		10	ng/L		04/08/26 19:51	04/11/26 07:13	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<10		10	ng/L		04/08/26 19:51	04/11/26 07:13	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	112		5 - 130	04/08/26 19:51	04/11/26 07:13	1
13C5 PFPeA	113		40 - 130	04/08/26 19:51	04/11/26 07:13	1
13C5 PFHxA	98.1		40 - 130	04/08/26 19:51	04/11/26 07:13	1
13C4 PFHpA	97.5		40 - 130	04/08/26 19:51	04/11/26 07:13	1
13C8 PFOA	101		40 - 130	04/08/26 19:51	04/11/26 07:13	1
13C9 PFNA	99.7		40 - 130	04/08/26 19:51	04/11/26 07:13	1
13C6 PFDA	94.0		40 - 130	04/08/26 19:51	04/11/26 07:13	1
13C7 PFUnA	101		30 - 130	04/08/26 19:51	04/11/26 07:13	1
13C2 PFDoA	95.9		10 - 130	04/08/26 19:51	04/11/26 07:13	1
13C2 PFTeDA	99.5		10 - 130	04/08/26 19:51	04/11/26 07:13	1
13C6 PFTrDA	92.5		20 - 150	04/08/26 19:51	04/11/26 07:13	1
13C3 PFBS	101		40 - 135	04/08/26 19:51	04/11/26 07:13	1
13C3 PFHxS	95.4		40 - 130	04/08/26 19:51	04/11/26 07:13	1
13C8 PFOS	89.3		40 - 130	04/08/26 19:51	04/11/26 07:13	1
13C8 PFOSA	76.6		40 - 130	04/08/26 19:51	04/11/26 07:13	1
d3-NMeFOSAA	93.1		40 - 170	04/08/26 19:51	04/11/26 07:13	1
d5-NEtFOSAA	90.9		25 - 135	04/08/26 19:51	04/11/26 07:13	1
13C2 4:2 FTS	90.6		40 - 200	04/08/26 19:51	04/11/26 07:13	1
13C2 6:2 FTS	93.4		40 - 200	04/08/26 19:51	04/11/26 07:13	1
13C2 8:2 FTS	80.8		40 - 300	04/08/26 19:51	04/11/26 07:13	1
13C3 HFPO-DA	86.1		40 - 130	04/08/26 19:51	04/11/26 07:13	1
d7-N-MeFOSE-M	73.0		10 - 130	04/08/26 19:51	04/11/26 07:13	1
d9-N-EtFOSE-M	70.3		10 - 130	04/08/26 19:51	04/11/26 07:13	1
d5-NEtPFOSA	67.9		10 - 130	04/08/26 19:51	04/11/26 07:13	1
d3-NMePFOSA	67.6		10 - 130	04/08/26 19:51	04/11/26 07:13	1
13C3-3:3 FTCA	111		20 - 150	04/08/26 19:51	04/11/26 07:13	1
13C3-5:3 FTCA	94.5		20 - 150	04/08/26 19:51	04/11/26 07:13	1

Lab Sample ID: LCS 320-910855/3-A

Matrix: Water

Analysis Batch: 911143

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 910855

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Perfluorobutanoic acid (PFBA)	80.0	75.1		ng/L		94	70 - 140
Perfluoropentanoic acid (PFPeA)	40.0	38.2		ng/L		96	65 - 135
Perfluorohexanoic acid (PFHxA)	40.0	43.0		ng/L		108	70 - 145
Perfluoroheptanoic acid (PFHpA)	40.0	39.1		ng/L		98	70 - 150
Perfluorooctanoic acid (PFOA)	40.0	40.8		ng/L		102	70 - 150

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QC Sample Results

Client: City & County of Honolulu
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-206596-1
SDG: Site H1 PFAS 1633

Method: QSM B-24 - PFAS for QSM 6.0, Table B-24 (Continued)

Lab Sample ID: LCS 320-910855/3-A

Matrix: Water

Analysis Batch: 911143

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 910855

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorononanoic acid (PFNA)	40.0	35.7		ng/L		89	70 - 150
Perfluorodecanoic acid (PFDA)	40.0	38.6		ng/L		96	70 - 140
Perfluoroundecanoic acid (PFUnA)	40.0	39.0		ng/L		97	70 - 145
Perfluorododecanoic acid (PFDoA)	40.0	38.5		ng/L		96	70 - 140
Perfluorotridecanoic acid (PFTrDA)	40.0	39.4		ng/L		98	65 - 140
Perfluorotetradecanoic acid (PFTeDA)	40.0	33.4		ng/L		83	60 - 140
Perfluorobutanesulfonic acid (PFBS)	35.5	35.1		ng/L		99	60 - 145
Perfluoropentanesulfonic acid (PFPeS)	37.6	35.8		ng/L		95	65 - 140
Perfluorohexanesulfonic acid (PFHxS)	36.5	33.9		ng/L		93	65 - 145
Perfluoroheptanesulfonic acid (PFHpS)	38.2	37.4		ng/L		98	70 - 150
Perfluorooctanesulfonic acid (PFOS)	37.2	35.1		ng/L		94	55 - 150
Perfluorononanesulfonic acid (PFNS)	38.5	37.0		ng/L		96	65 - 145
Perfluorodecanesulfonic acid (PFDS)	38.6	35.1		ng/L		91	60 - 145
Perfluorododecanesulfonic acid (PFDoS)	38.8	35.0		ng/L		90	50 - 145
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	75.0	76.9		ng/L		103	70 - 145
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	76.2	76.4		ng/L		100	65 - 155
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	76.8	82.6		ng/L		108	60 - 150
Perfluorooctanesulfonamide (PFOSA)	40.0	37.2		ng/L		93	70 - 145
N-methylperfluorooctane sulfonamide (NMeFOSA)	40.0	39.0		ng/L		97	60 - 150
N-ethylperfluorooctane sulfonamide (NEtFOSA)	40.0	38.6		ng/L		97	65 - 145
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	38.2		ng/L		95	50 - 140
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	37.8		ng/L		95	70 - 145
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	200	200		ng/L		100	70 - 145
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	200	197		ng/L		98	70 - 135
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	30.0	29.7		ng/L		99	70 - 140
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.8	44.1		ng/L		117	65 - 145
Perfluoro-4-methoxybutanoic acid (PFMBA)	40.0	34.9		ng/L		87	60 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	40.0	36.7		ng/L		92	50 - 150

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QC Sample Results

Client: City & County of Honolulu
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-206596-1
SDG: Site H1 PFAS 1633

Method: QSM B-24 - PFAS for QSM 6.0, Table B-24 (Continued)

Lab Sample ID: LCS 320-910855/3-A

Matrix: Water

Analysis Batch: 911143

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 910855

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoro-3-methoxypropanoic acid (PFMPA)	40.0	32.8		ng/L		82	55 - 140
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	37.4	36.3		ng/L		97	70 - 155
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	37.8	38.1		ng/L		101	55 - 160
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	35.7	34.3		ng/L		96	70 - 140
3-Perfluoropropylpropanoic acid (3:3 FTCA)	80.0	67.5		ng/L		84	65 - 130
3-Perfluoropentylpropanoic acid (5:3 FTCA)	200	185		ng/L		93	70 - 135
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	200	163		ng/L		81	50 - 145

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C4 PFBA	108		5 - 130
13C5 PFPeA	114		40 - 130
13C5 PFHxA	99.3		40 - 130
13C4 PFHpA	94.5		40 - 130
13C8 PFOA	97.8		40 - 130
13C9 PFNA	102		40 - 130
13C6 PFDA	99.2		40 - 130
13C7 PFUnA	105		30 - 130
13C2 PFDoA	101		10 - 130
13C2 PFTeDA	107		10 - 130
13C6 PFTrDA	99.4		20 - 150
13C3 PFBS	99.5		40 - 135
13C3 PFHxS	97.6		40 - 130
13C8 PFOS	96.8		40 - 130
13C8 PFOSA	85.9		40 - 130
d3-NMeFOSAA	100		40 - 170
d5-NEtFOSAA	98.3		25 - 135
13C2 4:2 FTS	92.5		40 - 200
13C2 6:2 FTS	92.2		40 - 200
13C2 8:2 FTS	84.7		40 - 300
13C3 HFPO-DA	89.0		40 - 130
d7-N-MeFOSE-M	80.1		10 - 130
d9-N-EtFOSE-M	77.4		10 - 130
d5-NEtPFOSA	80.5		10 - 130
d3-NMePFOSA	80.5		10 - 130
13C3-3:3 FTCA	110		20 - 150
13C3-5:3 FTCA	94.1		20 - 150

Lab Sample ID: LLCS 320-910855/2-A

Matrix: Water

Analysis Batch: 911143

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 910855

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	8.00	8.39		ng/L		105	70 - 140
Perfluoropentanoic acid (PFPeA)	4.00	4.13		ng/L		103	65 - 135

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QC Sample Results

Client: City & County of Honolulu
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-206596-1
SDG: Site H1 PFAS 1633

Method: QSM B-24 - PFAS for QSM 6.0, Table B-24 (Continued)

Lab Sample ID: LLCS 320-910855/2-A

Matrix: Water

Analysis Batch: 911143

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 910855

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid (PFHxA)	4.00	4.28		ng/L		107	70 - 145
Perfluoroheptanoic acid (PFHpA)	4.00	4.18		ng/L		104	70 - 150
Perfluorooctanoic acid (PFOA)	4.00	4.65		ng/L		116	70 - 150
Perfluorononanoic acid (PFNA)	4.00	4.22		ng/L		105	70 - 150
Perfluorodecanoic acid (PFDA)	4.00	4.28		ng/L		107	70 - 140
Perfluoroundecanoic acid (PFUnA)	4.00	3.98		ng/L		100	70 - 145
Perfluorododecanoic acid (PFDoA)	4.00	4.39		ng/L		110	70 - 140
Perfluorotridecanoic acid (PFTrDA)	4.00	4.39		ng/L		110	65 - 140
Perfluorotetradecanoic acid (PFTeDA)	4.00	3.45		ng/L		86	60 - 140
Perfluorobutanesulfonic acid (PFBS)	3.55	3.68	J	ng/L		104	60 - 145
Perfluoropentanesulfonic acid (PFPeS)	3.76	3.99		ng/L		106	65 - 140
Perfluorohexanesulfonic acid (PFHxS)	3.65	3.88		ng/L		106	65 - 145
Perfluoroheptanesulfonic acid (PFHpS)	3.82	3.96		ng/L		104	70 - 150
Perfluorooctanesulfonic acid (PFOS)	3.72	4.07		ng/L		109	55 - 150
Perfluorononanesulfonic acid (PFNS)	3.85	4.11		ng/L		107	65 - 145
Perfluorodecanesulfonic acid (PFDS)	3.86	3.80		ng/L		99	60 - 145
Perfluorododecanesulfonic acid (PFDoS)	3.88	3.70		ng/L		95	50 - 145
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	7.50	7.82		ng/L		104	70 - 145
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	7.62	8.25		ng/L		108	65 - 155
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	7.68	8.79		ng/L		114	60 - 150
Perfluorooctanesulfonamide (PFOSA)	4.00	3.97		ng/L		99	70 - 145
N-methylperfluorooctane sulfonamide (NMeFOSA)	4.00	4.31		ng/L		108	60 - 150
N-ethylperfluorooctane sulfonamide (NEtFOSA)	4.00	4.31		ng/L		108	65 - 145
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	4.00	4.37		ng/L		109	50 - 140
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	4.00	3.99		ng/L		100	70 - 145
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	20.0	21.2		ng/L		106	70 - 145
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	20.0	21.7		ng/L		109	70 - 135
Hexafluoropropylene Oxide	3.00	3.10		ng/L		103	70 - 140
Dimer Acid (HFPO-DA)							
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	3.78	4.64		ng/L		123	65 - 145
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.00	3.98		ng/L		99	60 - 150

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QC Sample Results

Client: City & County of Honolulu
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-206596-1
SDG: Site H1 PFAS 1633

Method: QSM B-24 - PFAS for QSM 6.0, Table B-24 (Continued)

Lab Sample ID: LLCS 320-910855/2-A

Matrix: Water

Analysis Batch: 911143

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 910855

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	4.00	4.02		ng/L		101	50 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	4.00	3.32		ng/L		83	55 - 140
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	3.74	4.16		ng/L		111	70 - 155
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	3.78	4.14		ng/L		110	55 - 160
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	3.57	3.45		ng/L		97	70 - 140
3-Perfluoropropylpropanoic acid (3:3 FTCA)	8.00	7.38		ng/L		92	65 - 130
3-Perfluoropentylpropanoic acid (5:3 FTCA)	20.0	20.3		ng/L		101	70 - 135
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	20.0	16.8		ng/L		84	50 - 145

Isotope Dilution	LLCS %Recovery	LLCS Qualifier	Limits
13C4 PFBA	107		5 - 130
13C5 PFPeA	108		40 - 130
13C5 PFHxA	97.0		40 - 130
13C4 PFHpA	90.2		40 - 130
13C8 PFOA	92.9		40 - 130
13C9 PFNA	98.3		40 - 130
13C6 PFDA	90.9		40 - 130
13C7 PFUnA	96.0		30 - 130
13C2 PFDoA	87.5		10 - 130
13C2 PFTeDA	92.6		10 - 130
13C6 PFTrDA	86.1		20 - 150
13C3 PFBS	98.3		40 - 135
13C3 PFHxS	93.6		40 - 130
13C8 PFOS	88.6		40 - 130
13C8 PFOSA	81.0		40 - 130
d3-NMeFOSAA	94.0		40 - 170
d5-NEtFOSAA	92.4		25 - 135
13C2 4:2 FTS	98.7		40 - 200
13C2 6:2 FTS	85.5		40 - 200
13C2 8:2 FTS	82.6		40 - 300
13C3 HFPO-DA	81.2		40 - 130
d7-N-MeFOSE-M	73.7		10 - 130
d9-N-EtFOSE-M	71.2		10 - 130
d5-NEtPFOSA	71.7		10 - 130
d3-NMePFOSA	74.4		10 - 130
13C3-3:3 FTCA	106		20 - 150
13C3-5:3 FTCA	88.8		20 - 150

QC Sample Results

Client: City & County of Honolulu
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-206596-1
SDG: Site H1 PFAS 1633

Method: QSM B-24 - PFAS for QSM 6.0, Table B-24 (Continued)

Lab Sample ID: 320-131398-A-18-B MS

Matrix: Water

Analysis Batch: 911143

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 910855

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	49		80.1	121		ng/L		90	70 - 140
Perfluoropentanoic acid (PFPeA)	110		40.0	146		ng/L		100	65 - 135
Perfluorohexanoic acid (PFHxA)	160		40.0	189		ng/L		83	70 - 145
Perfluoroheptanoic acid (PFHpA)	33		40.0	68.8		ng/L		89	70 - 150
Perfluorooctanoic acid (PFOA)	14		40.0	54.1		ng/L		100	70 - 150
Perfluorononanoic acid (PFNA)	<1.6		40.0	38.1		ng/L		93	70 - 150
Perfluorodecanoic acid (PFDA)	<1.6		40.0	40.6		ng/L		101	70 - 140
Perfluoroundecanoic acid (PFUnA)	<1.6		40.0	37.2		ng/L		93	70 - 145
Perfluorododecanoic acid (PFDoA)	<1.6		40.0	39.3		ng/L		98	70 - 140
Perfluorotridecanoic acid (PFTrDA)	<1.6		40.0	39.4		ng/L		98	65 - 140
Perfluorotetradecanoic acid (PFTeDA)	<1.6		40.0	31.4		ng/L		78	60 - 140
Perfluorobutanesulfonic acid (PFBS)	62		35.5	98.0		ng/L		102	60 - 145
Perfluoropentanesulfonic acid (PFPeS)	56		37.6	99.8		ng/L		118	65 - 140
Perfluorohexanesulfonic acid (PFHxS)	190		36.5	212	4	ng/L		73	65 - 145
Perfluoroheptanesulfonic acid (PFHpS)	<1.6		38.2	36.4		ng/L		93	70 - 150
Perfluorooctanesulfonic acid (PFOS)	10		37.2	58.6		ng/L		129	55 - 150
Perfluorononanesulfonic acid (PFNS)	<1.6		38.5	36.7		ng/L		95	65 - 145
Perfluorodecanesulfonic acid (PFDS)	<1.6		38.6	33.7		ng/L		87	60 - 145
Perfluorododecanesulfonic acid (PFDoS)	<1.6		38.8	29.9		ng/L		77	50 - 145
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<3.3		75.1	79.4		ng/L		106	70 - 145
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<3.3		76.2	82.4		ng/L		104	65 - 155
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<3.3		76.9	85.6		ng/L		111	60 - 150
Perfluorooctanesulfonamide (PFOSA)	<1.6		40.0	38.0		ng/L		95	70 - 145
N-methylperfluorooctane sulfonamide (NMeFOSA)	<1.6		40.0	39.7		ng/L		99	60 - 150
N-ethylperfluorooctane sulfonamide (NEtFOSA)	<1.6		40.0	39.7		ng/L		99	65 - 145
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.6		40.0	38.7		ng/L		97	50 - 140
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.6		40.0	38.6		ng/L		96	70 - 145
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	<8.2		200	199		ng/L		100	70 - 145
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	<8.2		200	205		ng/L		102	70 - 135
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.2		30.0	30.6		ng/L		102	70 - 140

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QC Sample Results

Client: City & County of Honolulu
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-206596-1
SDG: Site H1 PFAS 1633

Method: QSM B-24 - PFAS for QSM 6.0, Table B-24 (Continued)

Lab Sample ID: 320-131398-A-18-B MS

Matrix: Water

Analysis Batch: 911143

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 910855

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.6		37.9	41.8		ng/L		110	65 - 145
Perfluoro-4-methoxybutanoic acid (PFMBA)	<1.6		40.0	37.7		ng/L		94	60 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<1.6		40.0	35.1		ng/L		88	50 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	<1.6		40.0	36.1		ng/L		90	55 - 140
9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid	<1.6		37.4	34.8		ng/L		93	70 - 155
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.6		37.8	36.2		ng/L		96	55 - 160
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEISA)	<1.6		35.7	33.3		ng/L		93	70 - 140
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<3.3		80.1	71.1		ng/L		89	65 - 130
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<8.2		200	201		ng/L		100	70 - 135
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<8.2		200	163		ng/L		81	50 - 145

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
13C4 PFBA	101		5 - 130
13C5 PFPeA	96.1		40 - 130
13C5 PFHxA	94.1		40 - 130
13C4 PFHpA	88.9		40 - 130
13C8 PFOA	90.1		40 - 130
13C9 PFNA	90.8		40 - 130
13C6 PFDA	85.2		40 - 130
13C7 PFUnA	88.2		30 - 130
13C2 PFDoA	82.8		10 - 130
13C2 PFTeDA	90.7		10 - 130
13C6 PFTriDA	82.5		20 - 150
13C3 PFBS	91.6		40 - 135
13C3 PFHxS	86.7		40 - 130
13C8 PFOS	87.5		40 - 130
13C8 PFOSA	77.9		40 - 130
d3-NMeFOSAA	87.7		40 - 170
d5-NEtFOSAA	86.9		25 - 135
13C2 4:2 FTS	122		40 - 200
13C2 6:2 FTS	92.9		40 - 200
13C2 8:2 FTS	77.3		40 - 300
13C3 HFPO-DA	79.9		40 - 130
d7-N-MeFOSE-M	67.6		10 - 130
d9-N-EtFOSE-M	62.7		10 - 130
d5-NEtPFOSA	69.2		10 - 130
d3-NMePFOSA	72.2		10 - 130
13C3-3:3 FTCA	104		20 - 150
13C3-5:3 FTCA	79.9		20 - 150

QC Sample Results

Client: City & County of Honolulu
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-206596-1
SDG: Site H1 PFAS 1633

Method: QSM B-24 - PFAS for QSM 6.0, Table B-24 (Continued)

Lab Sample ID: 320-131398-A-18-C MSD

Matrix: Water

Analysis Batch: 911143

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 910855

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)	49		72.9	122		ng/L		99	70 - 140	0	30
Perfluoropentanoic acid (PFPeA)	110		36.5	142		ng/L		100	65 - 135	3	30
Perfluorohexanoic acid (PFHxA)	160		36.5	179	4	ng/L		65	70 - 145	5	30
Perfluoroheptanoic acid (PFHpA)	33		36.5	62.7		ng/L		81	70 - 150	9	30
Perfluorooctanoic acid (PFOA)	14		36.5	47.7		ng/L		92	70 - 150	12	30
Perfluorononanoic acid (PFNA)	<1.6		36.5	36.9		ng/L		99	70 - 150	3	30
Perfluorodecanoic acid (PFDA)	<1.6		36.5	38.4		ng/L		105	70 - 140	6	30
Perfluoroundecanoic acid (PFUnA)	<1.6		36.5	36.2		ng/L		99	70 - 145	3	30
Perfluorododecanoic acid (PFDoA)	<1.6		36.5	36.7		ng/L		101	70 - 140	7	30
Perfluorotridecanoic acid (PFTrDA)	<1.6		36.5	36.2		ng/L		99	65 - 140	8	30
Perfluorotetradecanoic acid (PFTeDA)	<1.6		36.5	30.0		ng/L		82	60 - 140	4	30
Perfluorobutanesulfonic acid (PFBS)	62		32.4	98.2		ng/L		112	60 - 145	0	30
Perfluoropentanesulfonic acid (PFPeS)	56		34.3	101		ng/L		132	65 - 140	1	30
Perfluorohexanesulfonic acid (PFHxS)	190		33.3	191	4	ng/L		16	65 - 145	11	30
Perfluoroheptanesulfonic acid (PFHpS)	<1.6		34.8	35.8		ng/L		100	70 - 150	2	30
Perfluorooctanesulfonic acid (PFOS)	10		33.9	43.2		ng/L		96	55 - 150	30	30
Perfluorononanesulfonic acid (PFNS)	<1.6		35.1	34.5		ng/L		98	65 - 145	6	30
Perfluorodecanesulfonic acid (PFDS)	<1.6		35.2	30.8		ng/L		87	60 - 145	9	30
Perfluorododecanesulfonic acid (PFDoS)	<1.6		35.4	29.4		ng/L		83	50 - 145	2	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<3.3		68.4	64.5		ng/L		94	70 - 145	21	30
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<3.3		69.4	74.8		ng/L		103	65 - 155	10	30
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<3.3		70.0	80.5		ng/L		115	60 - 150	6	30
Perfluorooctanesulfonamide (PFOSA)	<1.6		36.5	36.1		ng/L		99	70 - 145	5	30
N-methylperfluorooctane sulfonamide (NMeFOSA)	<1.6		36.5	37.2		ng/L		102	60 - 150	6	30
N-ethylperfluorooctane sulfonamide (NEtFOSA)	<1.6		36.5	36.2		ng/L		99	65 - 145	9	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.6		36.5	34.1		ng/L		94	50 - 140	13	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.6		36.5	35.0		ng/L		96	70 - 145	10	30
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	<8.2		182	189		ng/L		104	70 - 145	5	30
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	<8.2		182	191		ng/L		105	70 - 135	7	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.2		27.4	27.7		ng/L		101	70 - 140	10	30

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QC Sample Results

Client: City & County of Honolulu
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-206596-1
SDG: Site H1 PFAS 1633

Method: QSM B-24 - PFAS for QSM 6.0, Table B-24 (Continued)

Lab Sample ID: 320-131398-A-18-C MSD

Matrix: Water

Analysis Batch: 911143

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 910855

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.6		34.5	38.1		ng/L		110	65 - 145	9	30
Perfluoro-4-methoxybutanoic acid (PFMBA)	<1.6		36.5	35.0		ng/L		96	60 - 150	7	30
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<1.6		36.5	44.3		ng/L		122	50 - 150	23	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	<1.6		36.5	32.4		ng/L		89	55 - 140	11	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.6		34.1	34.4		ng/L		101	70 - 155	1	30
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.6		34.4	32.9		ng/L		95	55 - 160	10	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEISA)	<1.6		32.5	33.2		ng/L		102	70 - 140	0	30
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<3.3		72.9	67.1		ng/L		92	65 - 130	6	30
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<8.2		182	180		ng/L		99	70 - 135	11	30
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<8.2		182	162		ng/L		89	50 - 145	1	30

Isotope Dilution	MSD %Recovery	MSD Qualifier	Limits
13C4 PFBA	120		5 - 130
13C5 PFPeA	122		40 - 130
13C5 PFHxA	110		40 - 130
13C4 PFHpA	110		40 - 130
13C8 PFOA	110		40 - 130
13C9 PFNA	107		40 - 130
13C6 PFDA	101		40 - 130
13C7 PFUnA	106		30 - 130
13C2 PFDoA	97.6		10 - 130
13C2 PFTeDA	99.7		10 - 130
13C6 PFTTrDA	94.3		20 - 150
13C3 PFBS	114		40 - 135
13C3 PFHxS	107		40 - 130
13C8 PFOS	99.9		40 - 130
13C8 PFOSA	89.4		40 - 130
d3-NMeFOSAA	107		40 - 170
d5-NEtFOSAA	102		25 - 135
13C2 4:2 FTS	195		40 - 200
13C2 6:2 FTS	125		40 - 200
13C2 8:2 FTS	92.7		40 - 300
13C3 HFPO-DA	98.6		40 - 130
d7-N-MeFOSE-M	71.8		10 - 130
d9-N-EtFOSE-M	67.7		10 - 130
d5-NEtPFOSA	77.0		10 - 130
d3-NMePFOSA	82.6		10 - 130
13C3-3:3 FTCA	126		20 - 150
13C3-5:3 FTCA	99.7		20 - 150

QC Association Summary

Client: City & County of Honolulu
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-206596-1
SDG: Site H1 PFAS 1633

LCMS

Prep Batch: 910855

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-206596-1	BWS2253-H1-AQ	Total/NA	Water	1633	
MB 320-910855/1-A	Method Blank	Total/NA	Water	1633	
LCS 320-910855/3-A	Lab Control Sample	Total/NA	Water	1633	
LLCS 320-910855/2-A	Lab Control Sample	Total/NA	Water	1633	
320-131398-A-18-B MS	Matrix Spike	Total/NA	Water	1633	
320-131398-A-18-C MSD	Matrix Spike Duplicate	Total/NA	Water	1633	

Analysis Batch: 911143

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-206596-1	BWS2253-H1-AQ	Total/NA	Water	QSM B-24	910855
MB 320-910855/1-A	Method Blank	Total/NA	Water	QSM B-24	910855
LCS 320-910855/3-A	Lab Control Sample	Total/NA	Water	QSM B-24	910855
LLCS 320-910855/2-A	Lab Control Sample	Total/NA	Water	QSM B-24	910855
320-131398-A-18-B MS	Matrix Spike	Total/NA	Water	QSM B-24	910855
320-131398-A-18-C MSD	Matrix Spike Duplicate	Total/NA	Water	QSM B-24	910855

Lab Chronicle

Client: City & County of Honolulu
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-206596-1
SDG: Site H1 PFAS 1633

Client Sample ID: BWS2253-H1-AQ
Date Collected: 04/06/26 12:30
Date Received: 04/07/26 09:20

Lab Sample ID: 380-206596-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633			910855	EBH	EET SAC	04/08/26 19:51
Total/NA	Analysis	QSM B-24		1	911143	SEY	EET SAC	04/11/26 14:37

Laboratory References:

EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Accreditation/Certification Summary

Client: City & County of Honolulu
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-206596-1
SDG: Site H1 PFAS 1633

Laboratory: Eurofins Sacramento

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska	State	CA00044	06-30-26
Alaska (UST)	State	17-020	02-20-27
ANAB	Dept. of Defense ELAP	L2468	01-20-27
ANAB	Dept. of Energy	L2468.01	01-20-27
ANAB	ISO/IEC 17025	L2468.03	01-20-27
Arizona	State	AZ0708	08-11-26
Arkansas DEQ	State	88-0691	05-18-26
California	State	2897	01-31-28
Colorado	State	CA00044	08-31-26
Florida	NELAP	E87570	06-30-26
Georgia	State	4040	01-29-27
Kansas	NELAP	E-10375	10-31-26
Louisiana	NELAP	01944	06-30-26
Louisiana (All)	NELAP	01944	06-30-26
Maine	State	CA00004	04-14-26
Massachusetts	State	M-CA044	06-30-26
Michigan	State	9947	08-03-26
Minnesota	NELAP	006-999-474	12-31-26
Nevada	State	CA00044	07-31-26
New Jersey	NELAP	CA005	06-30-26
New York	NELAP	11666	04-01-27
Ohio	State	41252	01-29-27
Oregon	NELAP	4040	01-29-27
Texas	NELAP	T104704399-23-17	05-31-26
US Fish & Wildlife	US Federal Programs	A22139	04-30-26
USDA	US Federal Programs	525-23-59-76739	03-01-27
Utah	NELAP	CA000442023-16	02-28-27
Virginia	NELAP	460278	09-30-26
Washington	State	C581	05-05-26
West Virginia (DW)	State	9930C	01-31-27
West Virginia DEP	State	422	07-31-26
Wisconsin	State	998204680	08-31-26
Wyoming	State Program	8TMS-L	01-28-19 *

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

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Method Summary

Client: City & County of Honolulu
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-206596-1
SDG: Site H1 PFAS 1633

Method	Method Description	Protocol	Laboratory
QSM B-24	PFAS for QSM 6.0, Table B-24	DoD 6.0	EET SAC
1633	Solid-Phase Extraction (SPE)	EPA	EET SAC

Protocol References:

DoD 6.0 = Department of Defense Quality Systems Manual V6.0
EPA = US Environmental Protection Agency

Laboratory References:

EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Sample Summary

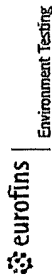
Client: City & County of Honolulu
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-206596-1
SDG: Site H1 PFAS 1633

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
380-206596-1	BWS2253-H1-AQ	Water	04/06/26 12:30	04/07/26 09:20	Hawaii

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

Eurofins Pomona
941 Corporate Center Drive
Pomona, CA 91768-2642
Phone (926) 386-1100



Chain of Custody Record

Client Information		Sampler: H. Bentley (808) 321-0683		Lab Plot: Lopez, Maria		Carrier Tracking No(s):		COC No:					
Client Contact: Mr Erwin Kawata		Phone: 858-205-0730		E-Mail: Maria.Lopez@eurofins.com		State of Origin: Hawaii		Page: Page 1 of 1					
Company: City & County of Honolulu		PWSID:		Analysis Requested									
Address: 630 South Beretania Street		Due Date Requested:		Total Number of Containers									
City: Honolulu		TAT Requested (days): Standard		Preservation Codes: A - RCL N - None									
State, Zip: HI, 96843		Compliance Project: ☐ Yes ☒ No		Other:									
Phone: 808-748-5066		PO #:		Field Filtered Sample (Yes or No)									
Email: ekawata@hbws.org		WO #:		1633 D06 - EPA Method 1633 Std List									
Project Name: INTERA - Red Hill Incident		Project #: 38000861		Field Filtered Sample (Yes or No)									
Site: H1		SSOW#:		1633 D06 - EPA Method 1633 Std List									
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=organic, D=drinking water)		Preservation Code		Special Instructions/Note:	
BWS2253-H1-AQ		9/6/20		12:30		G		Water		2		BILL TO POMONA EEA	
Possible Hazard Identification		☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological		Date:		Time:		Method of Shipment		Company		Special Inspections/QC Requirements:	
Deliverable Requested: I, II, III, IV, Other (specify)		Empty Kit Relinquished by		Date:		Time:		Method of Shipment		Company		Special Inspections/QC Requirements:	
Relinquished by		Date/Time: 9/6/20 14:30		Date:		Time:		Method of Shipment		Company		Special Inspections/QC Requirements:	
Relinquished by		Date/Time:		Date:		Time:		Method of Shipment		Company		Special Inspections/QC Requirements:	
Relinquished by		Date/Time:		Date:		Time:		Method of Shipment		Company		Special Inspections/QC Requirements:	
Custody Seals Intact: ☒ Yes ☐ No		Custody Seal No.: 30		Cooler Temperature(s) °C and Other Remarks:		Cooler Temperature(s) °C and Other Remarks:		Cooler Temperature(s) °C and Other Remarks:		Cooler Temperature(s) °C and Other Remarks:		Cooler Temperature(s) °C and Other Remarks:	

Chain of Custody Record

[illegible]

Ver-05/06/2024

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-206596-1
SDG Number: Site H1 PFAS 1633

Login Number: 206596

List Number: 1

Creator: Ngo, Theodore

List Source: Eurofins Pomona

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

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-206596-1
SDG Number: Site H1 PFAS 1633

Login Number: 206596

List Number: 2

Creator: Morazzini, Dominic S

List Source: Eurofins Sacramento

List Creation: 04/07/26 05:15 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	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	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	