

ANALYTICAL REPORT

PREPARED FOR

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JOB DESCRIPTION

INTERA - Red-Hill-Incident
Site H PFAS 533/537.1

JOB NUMBER

380-192805-1

Eurofins Pomona

Job Notes

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

The test results in this report relate only to the samples as received by the laboratory and meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins 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: 380-192805-1
SDG: Site H PFAS 533/537.1

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.
☼	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: 380-192805-1

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Job Narrative 380-192805-1

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 1/16/2026 9:38 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.2°C.

PFAS

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

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Detection Summary

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

Job ID: 380-192805-1
SDG: Site H PFAS 533/537.1

Client Sample ID: BWS2253-H1-AQ

Lab Sample ID: 380-192805-1

No Detections.

Client Sample ID: BWS2253-H1-FB

Lab Sample ID: 380-192805-2

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: INTERA - Red-Hill-Incident

Job ID: 380-192805-1
SDG: Site H PFAS 533/537.1

Client Sample ID: BWS2253-H1-AQ

Lab Sample ID: 380-192805-1

Date Collected: 01/14/26 11:20

Matrix: Water

Date Received: 01/16/26 09:38

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		01/17/26 16:01	01/18/26 22:33	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		01/17/26 16:01	01/18/26 22:33	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		01/17/26 16:01	01/18/26 22:33	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		01/17/26 16:01	01/18/26 22:33	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		01/17/26 16:01	01/18/26 22:33	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		01/17/26 16:01	01/18/26 22:33	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		01/17/26 16:01	01/18/26 22:33	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		01/17/26 16:01	01/18/26 22:33	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		01/17/26 16:01	01/18/26 22:33	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		01/17/26 16:01	01/18/26 22:33	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		01/17/26 16:01	01/18/26 22:33	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		01/17/26 16:01	01/18/26 22:33	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		01/17/26 16:01	01/18/26 22:33	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		01/17/26 16:01	01/18/26 22:33	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		01/17/26 16:01	01/18/26 22:33	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		01/17/26 16:01	01/18/26 22:33	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		01/17/26 16:01	01/18/26 22:33	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		01/17/26 16:01	01/18/26 22:33	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		01/17/26 16:01	01/18/26 22:33	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<2.0		2.0	ng/L		01/17/26 16:01	01/18/26 22:33	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		01/17/26 16:01	01/18/26 22:33	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		01/17/26 16:01	01/18/26 22:33	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		01/17/26 16:01	01/18/26 22:33	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		01/17/26 16:01	01/18/26 22:33	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		01/17/26 16:01	01/18/26 22:33	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	102		50 - 200	01/17/26 16:01	01/18/26 22:33	1
13C6 PFDA	107		50 - 200	01/17/26 16:01	01/18/26 22:33	1
13C5 PFHxA	105		50 - 200	01/17/26 16:01	01/18/26 22:33	1
13C4 PFHpA	104		50 - 200	01/17/26 16:01	01/18/26 22:33	1
13C8 PFOA	108		50 - 200	01/17/26 16:01	01/18/26 22:33	1
13C9 PFNA	107		50 - 200	01/17/26 16:01	01/18/26 22:33	1
13C7 PFUnA	106		50 - 200	01/17/26 16:01	01/18/26 22:33	1
13C2 PFDoA	101		50 - 200	01/17/26 16:01	01/18/26 22:33	1
13C4 PFBA	108		50 - 200	01/17/26 16:01	01/18/26 22:33	1
13C5 PFPeA	120		50 - 200	01/17/26 16:01	01/18/26 22:33	1
13C3 PFBS	109		50 - 200	01/17/26 16:01	01/18/26 22:33	1
13C3 PFHxS	107		50 - 200	01/17/26 16:01	01/18/26 22:33	1
13C8 PFOS	106		50 - 200	01/17/26 16:01	01/18/26 22:33	1

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Client Sample Results

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

Job ID: 380-192805-1
SDG: Site H PFAS 533/537.1

Client Sample ID: BWS2253-H1-AQ

Lab Sample ID: 380-192805-1

Date Collected: 01/14/26 11:20

Matrix: Water

Date Received: 01/16/26 09:38

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2-4:2-FTS	137		50 - 200	01/17/26 16:01	01/18/26 22:33	1
13C2-6:2-FTS	129		50 - 200	01/17/26 16:01	01/18/26 22:33	1
13C2-8:2-FTS	105		50 - 200	01/17/26 16:01	01/18/26 22:33	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		01/19/26 16:25	01/21/26 14:24	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		01/19/26 16:25	01/21/26 14:24	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		01/19/26 16:25	01/21/26 14:24	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		01/19/26 16:25	01/21/26 14:24	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		01/19/26 16:25	01/21/26 14:24	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		01/19/26 16:25	01/21/26 14:24	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		01/19/26 16:25	01/21/26 14:24	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		01/19/26 16:25	01/21/26 14:24	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		01/19/26 16:25	01/21/26 14:24	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		01/19/26 16:25	01/21/26 14:24	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		01/19/26 16:25	01/21/26 14:24	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		01/19/26 16:25	01/21/26 14:24	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		01/19/26 16:25	01/21/26 14:24	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		01/19/26 16:25	01/21/26 14:24	1
Perfluorotridecanoic acid (PFTTrDA)	<2.0		2.0	ng/L		01/19/26 16:25	01/21/26 14:24	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		01/19/26 16:25	01/21/26 14:24	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		01/19/26 16:25	01/21/26 14:24	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		01/19/26 16:25	01/21/26 14:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	108		70 - 130			01/19/26 16:25	01/21/26 14:24	1
13C2 PFHxA	98		70 - 130			01/19/26 16:25	01/21/26 14:24	1
13C2 PFDA	97		70 - 130			01/19/26 16:25	01/21/26 14:24	1
13C3-GenX	103		70 - 130			01/19/26 16:25	01/21/26 14:24	1

Client Sample ID: BWS2253-H1-FB

Lab Sample ID: 380-192805-2

Date Collected: 01/14/26 11:20

Matrix: Water

Date Received: 01/16/26 09:38

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		01/17/26 16:01	01/18/26 22:42	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		01/17/26 16:01	01/18/26 22:42	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		01/17/26 16:01	01/18/26 22:42	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		01/17/26 16:01	01/18/26 22:42	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		01/17/26 16:01	01/18/26 22:42	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		01/17/26 16:01	01/18/26 22:42	1

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Client Sample Results

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

Job ID: 380-192805-1
SDG: Site H PFAS 533/537.1

Client Sample ID: BWS2253-H1-FB

Lab Sample ID: 380-192805-2

Date Collected: 01/14/26 11:20

Matrix: Water

Date Received: 01/16/26 09:38

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		01/17/26 16:01	01/18/26 22:42	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		01/17/26 16:01	01/18/26 22:42	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		01/17/26 16:01	01/18/26 22:42	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		01/17/26 16:01	01/18/26 22:42	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		01/17/26 16:01	01/18/26 22:42	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		01/17/26 16:01	01/18/26 22:42	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		01/17/26 16:01	01/18/26 22:42	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		01/17/26 16:01	01/18/26 22:42	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		01/17/26 16:01	01/18/26 22:42	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		01/17/26 16:01	01/18/26 22:42	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		01/17/26 16:01	01/18/26 22:42	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		01/17/26 16:01	01/18/26 22:42	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		01/17/26 16:01	01/18/26 22:42	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<2.0		2.0	ng/L		01/17/26 16:01	01/18/26 22:42	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		01/17/26 16:01	01/18/26 22:42	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		01/17/26 16:01	01/18/26 22:42	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		01/17/26 16:01	01/18/26 22:42	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		01/17/26 16:01	01/18/26 22:42	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		01/17/26 16:01	01/18/26 22:42	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	102		50 - 200	01/17/26 16:01	01/18/26 22:42	1
13C6 PFDA	105		50 - 200	01/17/26 16:01	01/18/26 22:42	1
13C5 PFHxA	101		50 - 200	01/17/26 16:01	01/18/26 22:42	1
13C4 PFHpA	109		50 - 200	01/17/26 16:01	01/18/26 22:42	1
13C8 PFOA	113		50 - 200	01/17/26 16:01	01/18/26 22:42	1
13C9 PFNA	111		50 - 200	01/17/26 16:01	01/18/26 22:42	1
13C7 PFUnA	105		50 - 200	01/17/26 16:01	01/18/26 22:42	1
13C2 PFDoA	107		50 - 200	01/17/26 16:01	01/18/26 22:42	1
13C4 PFBA	110		50 - 200	01/17/26 16:01	01/18/26 22:42	1
13C5 PFPeA	110		50 - 200	01/17/26 16:01	01/18/26 22:42	1
13C3 PFBS	110		50 - 200	01/17/26 16:01	01/18/26 22:42	1
13C3 PFHxS	111		50 - 200	01/17/26 16:01	01/18/26 22:42	1
13C8 PFOS	109		50 - 200	01/17/26 16:01	01/18/26 22:42	1
13C2-4:2-FTS	118		50 - 200	01/17/26 16:01	01/18/26 22:42	1
13C2-6:2-FTS	124		50 - 200	01/17/26 16:01	01/18/26 22:42	1
13C2-8:2-FTS	101		50 - 200	01/17/26 16:01	01/18/26 22:42	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		01/19/26 16:25	01/21/26 14:33	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		01/19/26 16:25	01/21/26 14:33	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		01/19/26 16:25	01/21/26 14:33	1

Eurofins Pomona

Client Sample Results

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

Job ID: 380-192805-1
SDG: Site H PFAS 533/537.1

Client Sample ID: BWS2253-H1-FB

Lab Sample ID: 380-192805-2

Date Collected: 01/14/26 11:20

Matrix: Water

Date Received: 01/16/26 09:38

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		01/19/26 16:25	01/21/26 14:33	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		01/19/26 16:25	01/21/26 14:33	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		01/19/26 16:25	01/21/26 14:33	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		01/19/26 16:25	01/21/26 14:33	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		01/19/26 16:25	01/21/26 14:33	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		01/19/26 16:25	01/21/26 14:33	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		01/19/26 16:25	01/21/26 14:33	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		01/19/26 16:25	01/21/26 14:33	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		01/19/26 16:25	01/21/26 14:33	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		01/19/26 16:25	01/21/26 14:33	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		01/19/26 16:25	01/21/26 14:33	1
Perfluorotridecanoic acid (PFTTrDA)	<2.0		2.0	ng/L		01/19/26 16:25	01/21/26 14:33	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		01/19/26 16:25	01/21/26 14:33	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		01/19/26 16:25	01/21/26 14:33	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		01/19/26 16:25	01/21/26 14:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	101		70 - 130			01/19/26 16:25	01/21/26 14:33	1
13C2 PFHxA	103		70 - 130			01/19/26 16:25	01/21/26 14:33	1
13C2 PFDA	94		70 - 130			01/19/26 16:25	01/21/26 14:33	1
13C3-GenX	97		70 - 130			01/19/26 16:25	01/21/26 14:33	1

Action Limit Summary

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

Job ID: 380-192805-1
SDG: Site H PFAS 533/537.1

Client Sample ID: BWS2253-H1-AQ

Lab Sample ID: 380-192805-1

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	533	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	<2.0		ng/L	10	2.0	533	Total/NA
Perfluorononanoic acid (PFNA)	<2.0		ng/L	10	2.0	533	Total/NA
Perfluorooctanesulfonic acid (PFOS)	<2.0		ng/L	4	2.0	533	Total/NA
Perfluorooctanoic acid (PFOA)	<2.0		ng/L	4	2.0	533	Total/NA
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		ng/L	10	2.0	537.1	Total/NA
Perfluorooctanesulfonic acid (PFOS)	<2.0		ng/L	4	2.0	537.1	Total/NA
Perfluorooctanoic acid (PFOA)	<2.0		ng/L	4	2.0	537.1	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	<2.0		ng/L	10	2.0	537.1	Total/NA
Perfluorononanoic acid (PFNA)	<2.0		ng/L	10	2.0	537.1	Total/NA

Client Sample ID: BWS2253-H1-FB

Lab Sample ID: 380-192805-2

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	533	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	<2.0		ng/L	10	2.0	533	Total/NA
Perfluorononanoic acid (PFNA)	<2.0		ng/L	10	2.0	533	Total/NA
Perfluorooctanesulfonic acid (PFOS)	<2.0		ng/L	4	2.0	533	Total/NA
Perfluorooctanoic acid (PFOA)	<2.0		ng/L	4	2.0	533	Total/NA
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		ng/L	10	2.0	537.1	Total/NA
Perfluorooctanesulfonic acid (PFOS)	<2.0		ng/L	4	2.0	537.1	Total/NA
Perfluorooctanoic acid (PFOA)	<2.0		ng/L	4	2.0	537.1	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	<2.0		ng/L	10	2.0	537.1	Total/NA
Perfluorononanoic acid (PFNA)	<2.0		ng/L	10	2.0	537.1	Total/NA

Surrogate Summary

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

Job ID: 380-192805-1
SDG: Site H PFAS 533/537.1

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 (70-130)	PFHxA (70-130)	PFDA (70-130)	GenX (70-130)
380-192691-F-4-A MSD	Matrix Spike Duplicate	108	97	100	108
380-192691-G-4-A MS	Matrix Spike	104	91	96	98
380-192805-1	BWS2253-H1-AQ	108	98	97	103
380-192805-2	BWS2253-H1-FB	101	103	94	97
LCS 380-199068/19-A	Lab Control Sample	96	101	93	97
MBL 380-199068/17-A	Method Blank	110	103	96	96
MRL 380-199068/18-A	Lab Control Sample	99	95	91	86

Surrogate Legend

d5NEFOS = d5-NEtFOSAA

PFHxA = 13C2 PFHxA

PFDA = 13C2 PFDA

GenX = 13C3-GenX

Isotope Dilution Summary

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

Job ID: 380-192805-1
SDG: Site H PFAS 533/537.1

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)
380-192805-1	BWS2253-H1-AQ	102	107	105	104	108	107	106	101
380-192805-2	BWS2253-H1-FB	102	105	101	109	113	111	105	107
380-193009-B-1-A MS	Matrix Spike	120	113	113	108	110	112	109	111
380-193009-C-1-A MSD	Matrix Spike Duplicate	114	117	118	109	110	116	110	110
LCS 380-198719/21-A	Lab Control Sample	104	110	114	110	111	110	105	108
MBL 380-198719/19-A	Method Blank	99	106	113	111	111	112	103	106
MRL 380-198719/20-A	Lab Control Sample	104	109	116	110	111	112	107	112

		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)
380-192805-1	BWS2253-H1-AQ	108	120	109	107	106	137	129	105
380-192805-2	BWS2253-H1-FB	110	110	110	111	109	118	124	101
380-193009-B-1-A MS	Matrix Spike	111	122	110	111	110	123	122	102
380-193009-C-1-A MSD	Matrix Spike Duplicate	108	128	109	109	106	122	118	99
LCS 380-198719/21-A	Lab Control Sample	111	104	108	114	109	112	114	102
MBL 380-198719/19-A	Method Blank	107	105	104	110	106	123	121	105
MRL 380-198719/20-A	Lab Control Sample	109	108	114	112	110	123	123	106

Surrogate Legend

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

QC Sample Results

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

Job ID: 380-192805-1
SDG: Site H PFAS 533/537.1

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

Lab Sample ID: MBL 380-198719/19-A

Matrix: Water

Analysis Batch: 198751

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 198719

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	<0.30		2.0	ng/L		01/17/26 16:01	01/18/26 20:57	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9CI-PF3ONS)	<0.30		2.0	ng/L		01/17/26 16:01	01/18/26 20:57	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.60		2.0	ng/L		01/17/26 16:01	01/18/26 20:57	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<1.0		2.0	ng/L		01/17/26 16:01	01/18/26 20:57	1
Perfluorobutanesulfonic acid (PFBS)	<0.37		2.0	ng/L		01/17/26 16:01	01/18/26 20:57	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	ng/L		01/17/26 16:01	01/18/26 20:57	1
Perfluorododecanoic acid (PFDoA)	<0.54		2.0	ng/L		01/17/26 16:01	01/18/26 20:57	1
Perfluoroheptanoic acid (PFHpA)	<0.39		2.0	ng/L		01/17/26 16:01	01/18/26 20:57	1
Perfluorohexanesulfonic acid (PFHxS)	<0.32		2.0	ng/L		01/17/26 16:01	01/18/26 20:57	1
Perfluorohexanoic acid (PFHxA)	<0.46		2.0	ng/L		01/17/26 16:01	01/18/26 20:57	1
Perfluorononanoic acid (PFNA)	<0.40		2.0	ng/L		01/17/26 16:01	01/18/26 20:57	1
Perfluorooctanesulfonic acid (PFOS)	<0.43		2.0	ng/L		01/17/26 16:01	01/18/26 20:57	1
Perfluorooctanoic acid (PFOA)	<0.38		2.0	ng/L		01/17/26 16:01	01/18/26 20:57	1
Perfluoroundecanoic acid (PFUnA)	<0.42		2.0	ng/L		01/17/26 16:01	01/18/26 20:57	1
Perfluorobutanoic acid (PFBA)	<0.69		2.0	ng/L		01/17/26 16:01	01/18/26 20:57	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.38		2.0	ng/L		01/17/26 16:01	01/18/26 20:57	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.37		2.0	ng/L		01/17/26 16:01	01/18/26 20:57	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.48		2.0	ng/L		01/17/26 16:01	01/18/26 20:57	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.47		2.0	ng/L		01/17/26 16:01	01/18/26 20:57	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<0.25		2.0	ng/L		01/17/26 16:01	01/18/26 20:57	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.46		2.0	ng/L		01/17/26 16:01	01/18/26 20:57	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.15		2.0	ng/L		01/17/26 16:01	01/18/26 20:57	1
Perfluoropentanoic acid (PFPeA)	<0.38		2.0	ng/L		01/17/26 16:01	01/18/26 20:57	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.36		2.0	ng/L		01/17/26 16:01	01/18/26 20:57	1
Perfluoropentanesulfonic acid (PFPeS)	<0.39		2.0	ng/L		01/17/26 16:01	01/18/26 20:57	1

Isotope Dilution	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	99		50 - 200	01/17/26 16:01	01/18/26 20:57	1
13C6 PFDA	106		50 - 200	01/17/26 16:01	01/18/26 20:57	1
13C5 PFHxA	113		50 - 200	01/17/26 16:01	01/18/26 20:57	1
13C4 PFHpA	111		50 - 200	01/17/26 16:01	01/18/26 20:57	1
13C8 PFOA	111		50 - 200	01/17/26 16:01	01/18/26 20:57	1
13C9 PFNA	112		50 - 200	01/17/26 16:01	01/18/26 20:57	1
13C7 PFUnA	103		50 - 200	01/17/26 16:01	01/18/26 20:57	1
13C2 PFDoA	106		50 - 200	01/17/26 16:01	01/18/26 20:57	1
13C4 PFBA	107		50 - 200	01/17/26 16:01	01/18/26 20:57	1
13C5 PFPeA	105		50 - 200	01/17/26 16:01	01/18/26 20:57	1
13C3 PFBS	104		50 - 200	01/17/26 16:01	01/18/26 20:57	1
13C3 PFHxS	110		50 - 200	01/17/26 16:01	01/18/26 20:57	1

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QC Sample Results

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

Job ID: 380-192805-1
SDG: Site H PFAS 533/537.1

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

Lab Sample ID: MBL 380-198719/19-A

Matrix: Water

Analysis Batch: 198751

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 198719

Isotope Dilution	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOS	106		50 - 200	01/17/26 16:01	01/18/26 20:57	1
13C2-4:2-FTS	123		50 - 200	01/17/26 16:01	01/18/26 20:57	1
13C2-6:2-FTS	121		50 - 200	01/17/26 16:01	01/18/26 20:57	1
13C2-8:2-FTS	105		50 - 200	01/17/26 16:01	01/18/26 20:57	1

Lab Sample ID: LCS 380-198719/21-A

Matrix: Water

Analysis Batch: 198751

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 198719

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	60.1	56.2		ng/L		93	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	60.1	53.7		ng/L		89	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	60.1	63.4		ng/L		105	70 - 130
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	60.1	58.4		ng/L		97	70 - 130
Perfluorobutanesulfonic acid (PFBS)	60.1	58.4		ng/L		97	70 - 130
Perfluorodecanoic acid (PFDA)	60.1	60.1		ng/L		100	70 - 130
Perfluorododecanoic acid (PFDoA)	60.1	58.8		ng/L		98	70 - 130
Perfluoroheptanoic acid (PFHpA)	60.1	61.0		ng/L		102	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	60.1	55.8		ng/L		93	70 - 130
Perfluorohexanoic acid (PFHxA)	60.1	57.1		ng/L		95	70 - 130
Perfluorononanoic acid (PFNA)	60.1	58.8		ng/L		98	70 - 130
Perfluorooctanesulfonic acid (PFOS)	60.1	59.3		ng/L		99	70 - 130
Perfluorooctanoic acid (PFOA)	60.1	58.3		ng/L		97	70 - 130
Perfluoroundecanoic acid (PFUnA)	60.1	58.7		ng/L		98	70 - 130
Perfluorobutanoic acid (PFBA)	60.1	57.9		ng/L		96	70 - 130
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	60.1	59.7		ng/L		99	70 - 130
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	60.1	61.2		ng/L		102	70 - 130
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	60.1	61.3		ng/L		102	70 - 130
Nonfluoro-3,6-dioxaheptanoic acid (NFDHA)	60.1	57.5		ng/L		96	70 - 130
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	60.1	60.9		ng/L		101	70 - 130
Perfluoro-3-methoxypropanoic acid (PFMPA)	60.1	58.6		ng/L		97	70 - 130
Perfluoro-4-methoxybutanoic acid (PFMBA)	60.1	58.7		ng/L		98	70 - 130
Perfluoropentanoic acid (PFPeA)	60.1	60.7		ng/L		101	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	60.1	58.5		ng/L		97	70 - 130

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QC Sample Results

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

Job ID: 380-192805-1
SDG: Site H PFAS 533/537.1

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

Lab Sample ID: LCS 380-198719/21-A

Matrix: Water

Analysis Batch: 198751

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 198719

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoropentanesulfonic acid (PFPeS)	60.1	55.8		ng/L		93	70 - 130
		LCS	LCS				
		%Recovery	Qualifier	Limits			
13C3 HFPO-DA	104			50 - 200			
13C6 PFDA	110			50 - 200			
13C5 PFHxA	114			50 - 200			
13C4 PFHpA	110			50 - 200			
13C8 PFOA	111			50 - 200			
13C9 PFNA	110			50 - 200			
13C7 PFUnA	105			50 - 200			
13C2 PFDoA	108			50 - 200			
13C4 PFBA	111			50 - 200			
13C5 PFPeA	104			50 - 200			
13C3 PFBS	108			50 - 200			
13C3 PFHxS	114			50 - 200			
13C8 PFOS	109			50 - 200			
13C2-4:2-FTS	112			50 - 200			
13C2-6:2-FTS	114			50 - 200			
13C2-8:2-FTS	102			50 - 200			

Lab Sample ID: MRL 380-198719/20-A

Matrix: Water

Analysis Batch: 198751

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 198719

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.01	1.99	J	ng/L		99	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	2.01	1.94	J	ng/L		97	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.01	2.22	J	ng/L		110	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	2.01	2.00	J	ng/L		99	50 - 150
Perfluorobutanesulfonic acid (PFBS)	2.01	2.02	J	ng/L		100	50 - 150
Perfluorodecanoic acid (PFDA)	2.01	2.13	J	ng/L		106	50 - 150
Perfluorododecanoic acid (PFDoA)	2.01	2.06	J	ng/L		103	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.01	2.37	J	ng/L		118	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	2.01	2.11	J	ng/L		105	50 - 150
Perfluorohexanoic acid (PFHxA)	2.01	2.13	J	ng/L		106	50 - 150
Perfluorononanoic acid (PFNA)	2.01	2.08	J	ng/L		103	50 - 150
Perfluorooctanesulfonic acid (PFOS)	2.01	2.11	J	ng/L		105	50 - 150
Perfluorooctanoic acid (PFOA)	2.01	2.06	J	ng/L		102	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.01	2.02	J	ng/L		101	50 - 150
Perfluorobutanoic acid (PFBA)	2.01	2.12	J	ng/L		106	50 - 150

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QC Sample Results

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

Job ID: 380-192805-1
SDG: Site H PFAS 533/537.1

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

Lab Sample ID: MRL 380-198719/20-A

Matrix: Water

Analysis Batch: 198751

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 198719

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	2.01	2.21	J	ng/L		110	50 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	2.01	2.27	J	ng/L		113	50 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	2.01	2.13	J	ng/L		106	50 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	2.01	1.87	J	ng/L		93	50 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEA)	2.01	2.08	J	ng/L		104	50 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	2.01	2.00	J	ng/L		100	50 - 150
Perfluoro-4-methoxybutanoic acid (PFMBA)	2.01	2.01	J	ng/L		100	50 - 150
Perfluoropentanoic acid (PFPeA)	2.01	2.04	J	ng/L		102	50 - 150
Perfluoroheptanesulfonic acid (PFHpS)	2.01	1.98	J	ng/L		99	50 - 150
Perfluoropentanesulfonic acid (PFPeS)	2.01	1.90	J	ng/L		94	50 - 150

Isotope Dilution	MRL %Recovery	MRL Qualifier	Limits
13C3 HFPO-DA	104		50 - 200
13C6 PFDA	109		50 - 200
13C5 PFHxA	116		50 - 200
13C4 PFHpA	110		50 - 200
13C8 PFOA	111		50 - 200
13C9 PFNA	112		50 - 200
13C7 PFUnA	107		50 - 200
13C2 PFDoA	112		50 - 200
13C4 PFBA	109		50 - 200
13C5 PFPeA	108		50 - 200
13C3 PFBS	114		50 - 200
13C3 PFHxS	112		50 - 200
13C8 PFOS	110		50 - 200
13C2-4:2-FTS	123		50 - 200
13C2-6:2-FTS	123		50 - 200
13C2-8:2-FTS	106		50 - 200

Lab Sample ID: 380-193009-B-1-A MS

Matrix: Water

Analysis Batch: 198751

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 198719

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		120	108		ng/L		89	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		120	104		ng/L		86	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		120	123		ng/L		102	70 - 130

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QC Sample Results

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

Job ID: 380-192805-1
SDG: Site H PFAS 533/537.1

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

Lab Sample ID: 380-193009-B-1-A MS

Matrix: Water

Analysis Batch: 198751

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 198719

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide	<2.0		120	104		ng/L		87	70 - 130
Dimer Acid (HFPO-DA/GenX)									
Perfluorobutanesulfonic acid (PFBS)	<2.0		120	108		ng/L		89	70 - 130
Perfluorodecanoic acid (PFDA)	<2.0		120	114		ng/L		95	70 - 130
Perfluorododecanoic acid (PFDoA)	<2.0		120	115		ng/L		96	70 - 130
Perfluoroheptanoic acid (PFHpA)	<2.0		120	123		ng/L		102	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	<2.0		120	115		ng/L		96	70 - 130
Perfluorohexanoic acid (PFHxA)	<2.0		120	117		ng/L		96	70 - 130
Perfluorononanoic acid (PFNA)	<2.0		120	120		ng/L		100	70 - 130
Perfluorooctanesulfonic acid (PFOS)	<2.0		120	116		ng/L		97	70 - 130
Perfluorooctanoic acid (PFOA)	<2.0		120	116		ng/L		96	70 - 130
Perfluoroundecanoic acid (PFUnA)	<2.0		120	114		ng/L		95	70 - 130
Perfluorobutanoic acid (PFBA)	4.5		120	117		ng/L		93	70 - 130
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		120	120		ng/L		100	70 - 130
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		120	115		ng/L		95	70 - 130
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		120	116		ng/L		96	70 - 130
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		120	110		ng/L		91	70 - 130
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<2.0		120	111		ng/L		92	70 - 130
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		120	124		ng/L		103	70 - 130
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		120	120		ng/L		99	70 - 130
Perfluoropentanoic acid (PFPeA)	4.7		120	118		ng/L		94	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		120	114		ng/L		95	70 - 130
Perfluoropentanesulfonic acid (PFPeS)	<2.0		120	114		ng/L		94	70 - 130

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
13C3 HFPO-DA	120		50 - 200
13C6 PFDA	113		50 - 200
13C5 PFHxA	113		50 - 200
13C4 PFHpA	108		50 - 200
13C8 PFOA	110		50 - 200
13C9 PFNA	112		50 - 200
13C7 PFUnA	109		50 - 200
13C2 PFDoA	111		50 - 200
13C4 PFBA	111		50 - 200
13C5 PFPeA	122		50 - 200
13C3 PFBS	110		50 - 200
13C3 PFHxS	111		50 - 200
13C8 PFOS	110		50 - 200

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QC Sample Results

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

Job ID: 380-192805-1
SDG: Site H PFAS 533/537.1

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

Lab Sample ID: 380-193009-B-1-A MS

Matrix: Water

Analysis Batch: 198751

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 198719

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
13C2-4:2-FTS	123		50 - 200
13C2-6:2-FTS	122		50 - 200
13C2-8:2-FTS	102		50 - 200

Lab Sample ID: 380-193009-C-1-A MSD

Matrix: Water

Analysis Batch: 198751

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 198719

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		120	107		ng/L		89	70 - 130	1	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	<2.0		120	106		ng/L		88	70 - 130	2	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		120	127		ng/L		106	70 - 130	3	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		120	114		ng/L		94	70 - 130	9	30
Perfluorobutanesulfonic acid (PFBS)	<2.0		120	110		ng/L		91	70 - 130	2	30
Perfluorodecanoic acid (PFDA)	<2.0		120	111		ng/L		93	70 - 130	2	30
Perfluorododecanoic acid (PFDoA)	<2.0		120	118		ng/L		98	70 - 130	2	30
Perfluorooheptanoic acid (PFHpA)	<2.0		120	122		ng/L		101	70 - 130	1	30
Perfluorohexanesulfonic acid (PFHxS)	<2.0		120	115		ng/L		95	70 - 130	0	30
Perfluorohexanoic acid (PFHxA)	<2.0		120	110		ng/L		91	70 - 130	6	30
Perfluorononanoic acid (PFNA)	<2.0		120	119		ng/L		99	70 - 130	1	30
Perfluorooctanesulfonic acid (PFOS)	<2.0		120	119		ng/L		99	70 - 130	3	30
Perfluorooctanoic acid (PFOA)	<2.0		120	119		ng/L		99	70 - 130	3	30
Perfluoroundecanoic acid (PFUnA)	<2.0		120	115		ng/L		95	70 - 130	1	30
Perfluorobutanoic acid (PFBA)	4.5		120	120		ng/L		96	70 - 130	3	30
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		120	119		ng/L		99	70 - 130	1	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		120	107		ng/L		89	70 - 130	7	30
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		120	116		ng/L		96	70 - 130	0	30
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		120	106		ng/L		88	70 - 130	3	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		120	105		ng/L		87	70 - 130	6	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		120	131		ng/L		109	70 - 130	6	30
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		120	116		ng/L		97	70 - 130	3	30
Perfluoropentanoic acid (PFPeA)	4.7		120	116		ng/L		93	70 - 130	2	30
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		120	118		ng/L		98	70 - 130	3	30
Perfluoropentanesulfonic acid (PFPeS)	<2.0		120	112		ng/L		93	70 - 130	1	30

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QC Sample Results

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

Job ID: 380-192805-1
SDG: Site H PFAS 533/537.1

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

Isotope Dilution	MSD MSD		Limits
	%Recovery	Qualifier	
13C3 HFPO-DA	114		50 - 200
13C6 PFDA	117		50 - 200
13C5 PFHxA	118		50 - 200
13C4 PFHpA	109		50 - 200
13C8 PFOA	110		50 - 200
13C9 PFNA	116		50 - 200
13C7 PFUnA	110		50 - 200
13C2 PFDoA	110		50 - 200
13C4 PFBA	108		50 - 200
13C5 PFPeA	128		50 - 200
13C3 PFBS	109		50 - 200
13C3 PFHxS	109		50 - 200
13C8 PFOS	106		50 - 200
13C2-4:2-FTS	122		50 - 200
13C2-6:2-FTS	118		50 - 200
13C2-8:2-FTS	99		50 - 200

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

Lab Sample ID: MBL 380-199068/17-A
Matrix: Water
Analysis Batch: 199637

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 199068

Analyte	MBL MBL		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<1.0		2.0	ng/L		01/19/26 16:25	01/21/26 11:51	1
Perfluorooctanesulfonic acid (PFOS)	<0.43		2.0	ng/L		01/19/26 16:25	01/21/26 11:51	1
Perfluoroundecanoic acid (PFUnA)	<0.42		2.0	ng/L		01/19/26 16:25	01/21/26 11:51	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.58		2.0	ng/L		01/19/26 16:25	01/21/26 11:51	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.42		2.0	ng/L		01/19/26 16:25	01/21/26 11:51	1
Perfluorohexanoic acid (PFHxA)	<0.46		2.0	ng/L		01/19/26 16:25	01/21/26 11:51	1
Perfluorododecanoic acid (PFDoA)	<0.54		2.0	ng/L		01/19/26 16:25	01/21/26 11:51	1
Perfluorooctanoic acid (PFOA)	<0.38		2.0	ng/L		01/19/26 16:25	01/21/26 11:51	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	ng/L		01/19/26 16:25	01/21/26 11:51	1
Perfluorohexanesulfonic acid (PFHxS)	<0.32		2.0	ng/L		01/19/26 16:25	01/21/26 11:51	1
Perfluorobutanesulfonic acid (PFBS)	<0.37		2.0	ng/L		01/19/26 16:25	01/21/26 11:51	1
Perfluoroheptanoic acid (PFHpA)	<0.39		2.0	ng/L		01/19/26 16:25	01/21/26 11:51	1
Perfluorononanoic acid (PFNA)	<0.40		2.0	ng/L		01/19/26 16:25	01/21/26 11:51	1
Perfluorotetradecanoic acid (PFTA)	<0.54		2.0	ng/L		01/19/26 16:25	01/21/26 11:51	1
Perfluorotridecanoic acid (PFTTrDA)	<0.36		2.0	ng/L		01/19/26 16:25	01/21/26 11:51	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	<0.30		2.0	ng/L		01/19/26 16:25	01/21/26 11:51	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<0.30		2.0	ng/L		01/19/26 16:25	01/21/26 11:51	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.60		2.0	ng/L		01/19/26 16:25	01/21/26 11:51	1
Surrogate	MBL MBL		Limits			Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier						
d5-NEtFOSAA	110		70 - 130			01/19/26 16:25	01/21/26 11:51	1
13C2 PFHxA	103		70 - 130			01/19/26 16:25	01/21/26 11:51	1
13C2 PFDA	96		70 - 130			01/19/26 16:25	01/21/26 11:51	1

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QC Sample Results

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

Job ID: 380-192805-1
SDG: Site H PFAS 533/537.1

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

Lab Sample ID: MBL 380-199068/17-A

Matrix: Water

Analysis Batch: 199637

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 199068

Surrogate	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3-GenX	96		70 - 130	01/19/26 16:25	01/21/26 11:51	1

Lab Sample ID: LCS 380-199068/19-A

Matrix: Water

Analysis Batch: 199637

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 199068

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide	25.1	22.9		ng/L		91	70 - 130
Dimer Acid (HFPO-DA/GenX)							
Perfluorooctanesulfonic acid (PFOS)	25.1	26.2		ng/L		104	70 - 130
Perfluoroundecanoic acid (PFUnA)	25.1	22.3		ng/L		89	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	25.1	23.1		ng/L		92	70 - 130
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	25.1	23.4		ng/L		93	70 - 130
Perfluorohexanoic acid (PFHxA)	25.1	23.2		ng/L		92	70 - 130
Perfluorododecanoic acid (PFDoA)	25.1	20.9		ng/L		83	70 - 130
Perfluorooctanoic acid (PFOA)	25.1	24.6		ng/L		98	70 - 130
Perfluorodecanoic acid (PFDA)	25.1	22.3		ng/L		89	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	25.1	27.1		ng/L		108	70 - 130
Perfluorobutanesulfonic acid (PFBS)	25.1	28.6		ng/L		114	70 - 130
Perfluoroheptanoic acid (PFHpA)	25.1	23.3		ng/L		93	70 - 130
Perfluorononanoic acid (PFNA)	25.1	26.5		ng/L		106	70 - 130
Perfluorotetradecanoic acid (PFTA)	25.1	18.8		ng/L		75	70 - 130
Perfluorotridecanoic acid (PFTrDA)	25.1	21.9		ng/L		87	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	25.1	27.3		ng/L		109	70 - 130
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	25.1	24.8		ng/L		99	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	25.1	23.3		ng/L		93	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
d5-NEtFOSAA	96		70 - 130
13C2 PFHxA	101		70 - 130
13C2 PFDA	93		70 - 130
13C3-GenX	97		70 - 130

QC Sample Results

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

Job ID: 380-192805-1
SDG: Site H PFAS 533/537.1

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

Lab Sample ID: MRL 380-199068/18-A

Matrix: Water

Analysis Batch: 199637

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 199068

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide	2.00	1.78	J	ng/L		89	50 - 150
Dimer Acid (HFPO-DA/GenX)							
Perfluorooctanesulfonic acid (PFOS)	2.00	2.18	J	ng/L		109	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.00	1.78	J	ng/L		89	50 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00	1.90	J	ng/L		95	50 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.00	2.09	J	ng/L		104	50 - 150
Perfluorohexanoic acid (PFHxA)	2.00	1.79	J	ng/L		90	50 - 150
Perfluorododecanoic acid (PFDoA)	2.00	1.69	J	ng/L		84	50 - 150
Perfluorooctanoic acid (PFOA)	2.00	2.07	J	ng/L		103	50 - 150
Perfluorodecanoic acid (PFDA)	2.00	1.78	J	ng/L		89	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	2.00	2.25	J	ng/L		113	50 - 150
Perfluorobutanesulfonic acid (PFBS)	2.00	2.06	J	ng/L		103	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.00	1.88	J	ng/L		94	50 - 150
Perfluorononanoic acid (PFNA)	2.00	2.19	J	ng/L		109	50 - 150
Perfluorotetradecanoic acid (PFTA)	2.00	1.51	J	ng/L		75	50 - 150
Perfluorotridecanoic acid (PFTrDA)	2.00	1.74	J	ng/L		87	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	2.00	2.07	J	ng/L		103	50 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.00	1.90	J	ng/L		95	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.00	1.84	J	ng/L		92	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
d5-NEtFOSAA	99		70 - 130
13C2 PFHxA	95		70 - 130
13C2 PFDA	91		70 - 130
13C3-GenX	86		70 - 130

Lab Sample ID: 380-192691-F-4-A MSD

Matrix: Water

Analysis Batch: 199637

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 199068

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Hexafluoropropylene Oxide	<2.0		25.1	27.0		ng/L		108	70 - 130	12	30
Dimer Acid (HFPO-DA/GenX)											
Perfluorooctanesulfonic acid (PFOS)	<2.0		25.1	28.6		ng/L		114	70 - 130	5	30
Perfluoroundecanoic acid (PFUnA)	<2.0		25.1	23.6		ng/L		94	70 - 130	8	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		25.1	26.5		ng/L		106	70 - 130	8	30

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QC Sample Results

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

Job ID: 380-192805-1
SDG: Site H PFAS 533/537.1

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

Lab Sample ID: 380-192691-F-4-A MSD

Matrix: Water

Analysis Batch: 199637

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 199068

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		25.1	27.0		ng/L		107	70 - 130	8	30
Perfluorohexanoic acid (PFHxA)	<2.0		25.1	24.2		ng/L		96	70 - 130	11	30
Perfluorododecanoic acid (PFDoA)	<2.0		25.1	22.7		ng/L		91	70 - 130	7	30
Perfluorooctanoic acid (PFOA)	<2.0		25.1	27.0		ng/L		108	70 - 130	5	30
Perfluorodecanoic acid (PFDA)	<2.0		25.1	23.8		ng/L		95	70 - 130	7	30
Perfluorohexanesulfonic acid (PFHxS)	<2.0		25.1	29.0		ng/L		116	70 - 130	8	30
Perfluorobutanesulfonic acid (PFBS)	<2.0		25.1	27.9		ng/L		111	70 - 130	2	30
Perfluoroheptanoic acid (PFHpA)	<2.0		25.1	22.9		ng/L		91	70 - 130	5	30
Perfluorononanoic acid (PFNA)	<2.0		25.1	28.7		ng/L		114	70 - 130	6	30
Perfluorotetradecanoic acid (PFTA)	<2.0		25.1	19.5		ng/L		78	70 - 130	5	30
Perfluorotridecanoic acid (PFTrDA)	<2.0		25.1	23.9		ng/L		95	70 - 130	7	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		25.1	28.5		ng/L		113	70 - 130	5	30
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		25.1	27.1		ng/L		108	70 - 130	9	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		25.1	24.3		ng/L		97	70 - 130	3	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
d5-NEtFOSAA	108		70 - 130
13C2 PFHxA	97		70 - 130
13C2 PFDA	100		70 - 130
13C3-GenX	108		70 - 130

Lab Sample ID: 380-192691-G-4-A MS

Matrix: Water

Analysis Batch: 199637

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 199068

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		25.1	23.8		ng/L		95	70 - 130
Perfluorooctanesulfonic acid (PFOS)	<2.0		25.1	27.2		ng/L		108	70 - 130
Perfluoroundecanoic acid (PFUnA)	<2.0		25.1	21.8		ng/L		87	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		25.1	24.4		ng/L		97	70 - 130
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		25.1	24.8		ng/L		99	70 - 130
Perfluorohexanoic acid (PFHxA)	<2.0		25.1	21.7		ng/L		86	70 - 130
Perfluorododecanoic acid (PFDoA)	<2.0		25.1	21.1		ng/L		84	70 - 130
Perfluorooctanoic acid (PFOA)	<2.0		25.1	25.6		ng/L		102	70 - 130
Perfluorodecanoic acid (PFDA)	<2.0		25.1	22.3		ng/L		89	70 - 130

Eurofins Pomona

QC Sample Results

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

Job ID: 380-192805-1
SDG: Site H PFAS 533/537.1

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

Lab Sample ID: 380-192691-G-4-A MS

Matrix: Water

Analysis Batch: 199637

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 199068

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanesulfonic acid (PFHxS)	<2.0		25.1	26.8		ng/L		107	70 - 130
Perfluorobutanesulfonic acid (PFBS)	<2.0		25.1	27.4		ng/L		109	70 - 130
Perfluoroheptanoic acid (PFHpA)	<2.0		25.1	21.9		ng/L		87	70 - 130
Perfluorononanoic acid (PFNA)	<2.0		25.1	27.1		ng/L		108	70 - 130
Perfluorotetradecanoic acid (PFTA)	<2.0		25.1	18.5		ng/L		74	70 - 130
Perfluorotridecanoic acid (PFTrDA)	<2.0		25.1	22.2		ng/L		89	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		25.1	27.2		ng/L		108	70 - 130
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		25.1	24.7		ng/L		99	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		25.1	23.6		ng/L		94	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
d5-NEtFOSAA	104		70 - 130						
13C2 PFHxA	91		70 - 130						
13C2 PFDA	96		70 - 130						
13C3-GenX	98		70 - 130						

QC Association Summary

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

Job ID: 380-192805-1
SDG: Site H PFAS 533/537.1

LCMS

Prep Batch: 198719

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-192805-1	BWS2253-H1-AQ	Total/NA	Water	533	
380-192805-2	BWS2253-H1-FB	Total/NA	Water	533	
MBL 380-198719/19-A	Method Blank	Total/NA	Water	533	
LCS 380-198719/21-A	Lab Control Sample	Total/NA	Water	533	
MRL 380-198719/20-A	Lab Control Sample	Total/NA	Water	533	
380-193009-B-1-A MS	Matrix Spike	Total/NA	Water	533	
380-193009-C-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	533	

Analysis Batch: 198751

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-192805-1	BWS2253-H1-AQ	Total/NA	Water	533	198719
380-192805-2	BWS2253-H1-FB	Total/NA	Water	533	198719
MBL 380-198719/19-A	Method Blank	Total/NA	Water	533	198719
LCS 380-198719/21-A	Lab Control Sample	Total/NA	Water	533	198719
MRL 380-198719/20-A	Lab Control Sample	Total/NA	Water	533	198719
380-193009-B-1-A MS	Matrix Spike	Total/NA	Water	533	198719
380-193009-C-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	533	198719

Prep Batch: 199068

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-192805-1	BWS2253-H1-AQ	Total/NA	Water	537.1 DW	
380-192805-2	BWS2253-H1-FB	Total/NA	Water	537.1 DW	
MBL 380-199068/17-A	Method Blank	Total/NA	Water	537.1 DW	
LCS 380-199068/19-A	Lab Control Sample	Total/NA	Water	537.1 DW	
MRL 380-199068/18-A	Lab Control Sample	Total/NA	Water	537.1 DW	
380-192691-F-4-A MSD	Matrix Spike Duplicate	Total/NA	Water	537.1 DW	
380-192691-G-4-A MS	Matrix Spike	Total/NA	Water	537.1 DW	

Analysis Batch: 199637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-192805-1	BWS2253-H1-AQ	Total/NA	Water	537.1	199068
380-192805-2	BWS2253-H1-FB	Total/NA	Water	537.1	199068
MBL 380-199068/17-A	Method Blank	Total/NA	Water	537.1	199068
LCS 380-199068/19-A	Lab Control Sample	Total/NA	Water	537.1	199068
MRL 380-199068/18-A	Lab Control Sample	Total/NA	Water	537.1	199068
380-192691-F-4-A MSD	Matrix Spike Duplicate	Total/NA	Water	537.1	199068
380-192691-G-4-A MS	Matrix Spike	Total/NA	Water	537.1	199068

Lab Chronicle

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

Job ID: 380-192805-1
SDG: Site H PFAS 533/537.1

Client Sample ID: BWS2253-H1-AQ

Lab Sample ID: 380-192805-1

Date Collected: 01/14/26 11:20

Matrix: Water

Date Received: 01/16/26 09:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			198719	N8NE	EA POM	01/17/26 16:01
Total/NA	Analysis	533		1	198751	M7ML	EA POM	01/18/26 22:33
Total/NA	Prep	537.1 DW			199068	E2HD	EA POM	01/19/26 16:25
Total/NA	Analysis	537.1		1	199637	M7ML	EA POM	01/21/26 14:24

Client Sample ID: BWS2253-H1-FB

Lab Sample ID: 380-192805-2

Date Collected: 01/14/26 11:20

Matrix: Water

Date Received: 01/16/26 09:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			198719	N8NE	EA POM	01/17/26 16:01
Total/NA	Analysis	533		1	198751	M7ML	EA POM	01/18/26 22:42
Total/NA	Prep	537.1 DW			199068	E2HD	EA POM	01/19/26 16:25
Total/NA	Analysis	537.1		1	199637	M7ML	EA POM	01/21/26 14:33

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 380-192805-1
SDG: Site H PFAS 533/537.1

Laboratory: Eurofins Pomona

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

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

- 1
- 2
- 3
- 4
- 5
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- 7
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- 15
- 16
- 17

Method Summary

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

Job ID: 380-192805-1
SDG: Site H PFAS 533/537.1

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

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

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

Sample Summary

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

Job ID: 380-192805-1
SDG: Site H PFAS 533/537.1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
380-192805-1	BWS2253-H1-AQ	Water	01/14/26 11:20	01/16/26 09:38	Hawaii
380-192805-2	BWS2253-H1-FB	Water	01/14/26 11:20	01/16/26 09:38	Hawaii

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- 2
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- 6
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- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17

[illegible]

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-192805-1
SDG Number: Site H PFAS 533/537.1

Login Number: 192805

List Number: 1

Creator: Ngo, Theodore

List Source: Eurofins Pomona

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