

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Erwin Kawata
City & County of Honolulu
630 South Beretania Street
Public Service Bldg. Room 310
Honolulu, Hawaii 96843

Generated 2/6/2026 11:48:10 AM

JOB DESCRIPTION

INTERA - Red-Hill-Incident
Site H1 PFAS 533/537.1

JOB NUMBER

380-195120-1

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
Maria Lopez, Project Manager
Maria.Lopez@et.eurofinsus.com
(626)386-1100

Generated
2/6/2026 11:48:10 AM

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Detection Summary	6
Client Sample Results	7
Action Limit Summary	11
Surrogate Summary	12
Isotope Dilution Summary	13
QC Sample Results	14
QC Association Summary	25
Lab Chronicle	26
Certification Summary	27
Method Summary	28
Sample Summary	29
Chain of Custody	30
Receipt Checklists	31



Definitions/Glossary

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

Job ID: 380-195120-1
SDG: Site H1 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: 380-195120-1

Job ID: 380-195120-1

Eurofins Pomona

Job Narrative 380-195120-1

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 1/29/2026 9:52 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 0.5°C.

PFAS

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

Eurofins Pomona

Detection Summary

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

Job ID: 380-195120-1
SDG: Site H1 PFAS 533/537.1

Client Sample ID: BWS2253-H1-AQ

Lab Sample ID: 380-195120-1

No Detections.

Client Sample ID: BWS2253-H1-FB

Lab Sample ID: 380-195120-2

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Pomona

Client Sample Results

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

Job ID: 380-195120-1
SDG: Site H1 PFAS 533/537.1

Client Sample ID: BWS2253-H1-AQ

Lab Sample ID: 380-195120-1

Date Collected: 01/28/26 09:30

Matrix: Water

Date Received: 01/29/26 09:52

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		02/03/26 14:25	02/05/26 16:53	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 16:53	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 16:53	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 16:53	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 16:53	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 16:53	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 16:53	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 16:53	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 16:53	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 16:53	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 16:53	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 16:53	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 16:53	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 16:53	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 16:53	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 16:53	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 16:53	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 16:53	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 16:53	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 16:53	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 16:53	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 16:53	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 16:53	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 16:53	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 16:53	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	85		50 - 200	02/03/26 14:25	02/05/26 16:53	1
13C6 PFDA	64		50 - 200	02/03/26 14:25	02/05/26 16:53	1
13C5 PFHxA	86		50 - 200	02/03/26 14:25	02/05/26 16:53	1
13C4 PFHpA	84		50 - 200	02/03/26 14:25	02/05/26 16:53	1
13C8 PFOA	78		50 - 200	02/03/26 14:25	02/05/26 16:53	1
13C9 PFNA	72		50 - 200	02/03/26 14:25	02/05/26 16:53	1
13C7 PFUnA	58		50 - 200	02/03/26 14:25	02/05/26 16:53	1
13C2 PFDoA	63		50 - 200	02/03/26 14:25	02/05/26 16:53	1
13C4 PFBA	94		50 - 200	02/03/26 14:25	02/05/26 16:53	1
13C5 PFPeA	98		50 - 200	02/03/26 14:25	02/05/26 16:53	1
13C3 PFBS	122		50 - 200	02/03/26 14:25	02/05/26 16:53	1
13C3 PFHxS	116		50 - 200	02/03/26 14:25	02/05/26 16:53	1
13C8 PFOS	121		50 - 200	02/03/26 14:25	02/05/26 16:53	1

Eurofins Pomona

Client Sample Results

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

Job ID: 380-195120-1
SDG: Site H1 PFAS 533/537.1

Client Sample ID: BWS2253-H1-AQ

Lab Sample ID: 380-195120-1

Date Collected: 01/28/26 09:30

Matrix: Water

Date Received: 01/29/26 09:52

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	138		50 - 200	02/03/26 14:25	02/05/26 16:53	1
13C2-6:2-FTS	130		50 - 200	02/03/26 14:25	02/05/26 16:53	1
13C2-8:2-FTS	126		50 - 200	02/03/26 14:25	02/05/26 16:53	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		01/31/26 11:32	02/01/26 16:39	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		01/31/26 11:32	02/01/26 16:39	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		01/31/26 11:32	02/01/26 16:39	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		01/31/26 11:32	02/01/26 16:39	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		01/31/26 11:32	02/01/26 16:39	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		01/31/26 11:32	02/01/26 16:39	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		01/31/26 11:32	02/01/26 16:39	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		01/31/26 11:32	02/01/26 16:39	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		01/31/26 11:32	02/01/26 16:39	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		01/31/26 11:32	02/01/26 16:39	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		01/31/26 11:32	02/01/26 16:39	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		01/31/26 11:32	02/01/26 16:39	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		01/31/26 11:32	02/01/26 16:39	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		01/31/26 11:32	02/01/26 16:39	1
Perfluorotridecanoic acid (PFTTrDA)	<2.0		2.0	ng/L		01/31/26 11:32	02/01/26 16:39	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		01/31/26 11:32	02/01/26 16:39	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		01/31/26 11:32	02/01/26 16:39	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		01/31/26 11:32	02/01/26 16:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	103		70 - 130			01/31/26 11:32	02/01/26 16:39	1
13C2 PFHxA	102		70 - 130			01/31/26 11:32	02/01/26 16:39	1
13C2 PFDA	107		70 - 130			01/31/26 11:32	02/01/26 16:39	1
13C3-GenX	100		70 - 130			01/31/26 11:32	02/01/26 16:39	1

Client Sample ID: BWS2253-H1-FB

Lab Sample ID: 380-195120-2

Date Collected: 01/28/26 09:30

Matrix: Water

Date Received: 01/29/26 09:52

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		02/03/26 14:25	02/05/26 17:02	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 17:02	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 17:02	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 17:02	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 17:02	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 17:02	1

Eurofins Pomona

Client Sample Results

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

Job ID: 380-195120-1
SDG: Site H1 PFAS 533/537.1

Client Sample ID: BWS2253-H1-FB

Lab Sample ID: 380-195120-2

Date Collected: 01/28/26 09:30

Matrix: Water

Date Received: 01/29/26 09:52

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		02/03/26 14:25	02/05/26 17:02	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 17:02	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 17:02	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 17:02	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 17:02	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 17:02	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 17:02	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 17:02	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 17:02	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 17:02	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 17:02	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 17:02	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 17:02	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 17:02	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 17:02	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 17:02	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 17:02	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 17:02	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 17:02	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	98		50 - 200	02/03/26 14:25	02/05/26 17:02	1
13C6 PFDA	105		50 - 200	02/03/26 14:25	02/05/26 17:02	1
13C5 PFHxA	101		50 - 200	02/03/26 14:25	02/05/26 17:02	1
13C4 PFHpA	103		50 - 200	02/03/26 14:25	02/05/26 17:02	1
13C8 PFOA	104		50 - 200	02/03/26 14:25	02/05/26 17:02	1
13C9 PFNA	106		50 - 200	02/03/26 14:25	02/05/26 17:02	1
13C7 PFUnA	105		50 - 200	02/03/26 14:25	02/05/26 17:02	1
13C2 PFDoA	103		50 - 200	02/03/26 14:25	02/05/26 17:02	1
13C4 PFBA	108		50 - 200	02/03/26 14:25	02/05/26 17:02	1
13C5 PFPeA	106		50 - 200	02/03/26 14:25	02/05/26 17:02	1
13C3 PFBS	114		50 - 200	02/03/26 14:25	02/05/26 17:02	1
13C3 PFHxS	117		50 - 200	02/03/26 14:25	02/05/26 17:02	1
13C8 PFOS	118		50 - 200	02/03/26 14:25	02/05/26 17:02	1
13C2-4:2-FTS	115		50 - 200	02/03/26 14:25	02/05/26 17:02	1
13C2-6:2-FTS	121		50 - 200	02/03/26 14:25	02/05/26 17:02	1
13C2-8:2-FTS	112		50 - 200	02/03/26 14:25	02/05/26 17:02	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		01/31/26 11:32	02/01/26 16:48	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		01/31/26 11:32	02/01/26 16:48	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		01/31/26 11:32	02/01/26 16:48	1

Eurofins Pomona

Client Sample Results

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

Job ID: 380-195120-1
SDG: Site H1 PFAS 533/537.1

Client Sample ID: BWS2253-H1-FB

Lab Sample ID: 380-195120-2

Date Collected: 01/28/26 09:30

Matrix: Water

Date Received: 01/29/26 09:52

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		01/31/26 11:32	02/01/26 16:48	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		01/31/26 11:32	02/01/26 16:48	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		01/31/26 11:32	02/01/26 16:48	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		01/31/26 11:32	02/01/26 16:48	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		01/31/26 11:32	02/01/26 16:48	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		01/31/26 11:32	02/01/26 16:48	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		01/31/26 11:32	02/01/26 16:48	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		01/31/26 11:32	02/01/26 16:48	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		01/31/26 11:32	02/01/26 16:48	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		01/31/26 11:32	02/01/26 16:48	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		01/31/26 11:32	02/01/26 16:48	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		01/31/26 11:32	02/01/26 16:48	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		01/31/26 11:32	02/01/26 16:48	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		01/31/26 11:32	02/01/26 16:48	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		01/31/26 11:32	02/01/26 16:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	103		70 - 130			01/31/26 11:32	02/01/26 16:48	1
13C2 PFHxA	109		70 - 130			01/31/26 11:32	02/01/26 16:48	1
13C2 PFDA	104		70 - 130			01/31/26 11:32	02/01/26 16:48	1
13C3-GenX	89		70 - 130			01/31/26 11:32	02/01/26 16:48	1

Action Limit Summary

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

Job ID: 380-195120-1
SDG: Site H1 PFAS 533/537.1

Client Sample ID: BWS2253-H1-AQ

Lab Sample ID: 380-195120-1

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 Limit	RL	Method	Prep Type
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: 380-195120-2

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 Limit	RL	Method	Prep Type
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: 380-195120-1
SDG: Site H1 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)
380-194997-M-2-A MS	Matrix Spike	99	100	100	89
380-194997-N-2-A MSD	Matrix Spike Duplicate	99	107	110	100
380-195120-1	BWS2253-H1-AQ	103	102	107	100
380-195120-2	BWS2253-H1-FB	103	109	104	89
LCS 380-202484/20-A	Lab Control Sample	92	96	104	86
MBL 380-202484/18-A	Method Blank	106	95	103	83
MRL 380-202484/19-A	Lab Control Sample	101	100	99	89

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: 380-195120-1
SDG: Site H1 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)
380-195095-E-1-A MS	Matrix Spike	105	107	107	109	107	108	109	107
380-195095-F-1-A MSD	Matrix Spike Duplicate	103	108	112	107	108	108	108	107
380-195120-1	BWS2253-H1-AQ	85	64	86	84	78	72	58	63
380-195120-2	BWS2253-H1-FB	98	105	101	103	104	106	105	103
LCS 380-203099/22-A	Lab Control Sample	105	109	109	108	106	110	107	109
MBL 380-203099/20-A	Method Blank	104	106	109	111	108	107	106	106
MRL 380-203099/21-A	Lab Control Sample	107	106	110	109	107	108	105	109

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)
380-195095-E-1-A MS	Matrix Spike	108	108	114	114	118	116	118	109
380-195095-F-1-A MSD	Matrix Spike Duplicate	109	106	112	113	112	113	109	102
380-195120-1	BWS2253-H1-AQ	94	98	122	116	121	138	130	126
380-195120-2	BWS2253-H1-FB	108	106	114	117	118	115	121	112
LCS 380-203099/22-A	Lab Control Sample	111	109	112	111	117	112	110	108
MBL 380-203099/20-A	Method Blank	109	105	116	118	118	115	115	108
MRL 380-203099/21-A	Lab Control Sample	109	105	114	110	115	119	114	107

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: 380-195120-1
SDG: Site H1 PFAS 533/537.1

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

Lab Sample ID: MBL 380-203099/20-A

Matrix: Water

Analysis Batch: 203659

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 203099

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		02/03/26 14:25	02/05/26 13:44	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9CI-PF3ONS)	<0.30		2.0	ng/L		02/03/26 14:25	02/05/26 13:44	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.60		2.0	ng/L		02/03/26 14:25	02/05/26 13:44	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<1.0		2.0	ng/L		02/03/26 14:25	02/05/26 13:44	1
Perfluorobutanesulfonic acid (PFBS)	<0.37		2.0	ng/L		02/03/26 14:25	02/05/26 13:44	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	ng/L		02/03/26 14:25	02/05/26 13:44	1
Perfluorododecanoic acid (PFDoA)	<0.54		2.0	ng/L		02/03/26 14:25	02/05/26 13:44	1
Perfluoroheptanoic acid (PFHpA)	<0.39		2.0	ng/L		02/03/26 14:25	02/05/26 13:44	1
Perfluorohexanesulfonic acid (PFHxS)	<0.32		2.0	ng/L		02/03/26 14:25	02/05/26 13:44	1
Perfluorohexanoic acid (PFHxA)	<0.46		2.0	ng/L		02/03/26 14:25	02/05/26 13:44	1
Perfluorononanoic acid (PFNA)	<0.40		2.0	ng/L		02/03/26 14:25	02/05/26 13:44	1
Perfluorooctanesulfonic acid (PFOS)	<0.43		2.0	ng/L		02/03/26 14:25	02/05/26 13:44	1
Perfluorooctanoic acid (PFOA)	<0.38		2.0	ng/L		02/03/26 14:25	02/05/26 13:44	1
Perfluoroundecanoic acid (PFUnA)	<0.42		2.0	ng/L		02/03/26 14:25	02/05/26 13:44	1
Perfluorobutanoic acid (PFBA)	<0.69		2.0	ng/L		02/03/26 14:25	02/05/26 13:44	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.38		2.0	ng/L		02/03/26 14:25	02/05/26 13:44	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.37		2.0	ng/L		02/03/26 14:25	02/05/26 13:44	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.48		2.0	ng/L		02/03/26 14:25	02/05/26 13:44	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.47		2.0	ng/L		02/03/26 14:25	02/05/26 13:44	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<0.25		2.0	ng/L		02/03/26 14:25	02/05/26 13:44	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.46		2.0	ng/L		02/03/26 14:25	02/05/26 13:44	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.15		2.0	ng/L		02/03/26 14:25	02/05/26 13:44	1
Perfluoropentanoic acid (PFPeA)	<0.38		2.0	ng/L		02/03/26 14:25	02/05/26 13:44	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.36		2.0	ng/L		02/03/26 14:25	02/05/26 13:44	1
Perfluoropentanesulfonic acid (PFPeS)	<0.39		2.0	ng/L		02/03/26 14:25	02/05/26 13:44	1
Isotope Dilution	MBL %Recovery	MBL Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	104		50 - 200			02/03/26 14:25	02/05/26 13:44	1
13C6 PFDA	106		50 - 200			02/03/26 14:25	02/05/26 13:44	1
13C5 PFHxA	109		50 - 200			02/03/26 14:25	02/05/26 13:44	1
13C4 PFHpA	111		50 - 200			02/03/26 14:25	02/05/26 13:44	1
13C8 PFOA	108		50 - 200			02/03/26 14:25	02/05/26 13:44	1
13C9 PFNA	107		50 - 200			02/03/26 14:25	02/05/26 13:44	1
13C7 PFUnA	106		50 - 200			02/03/26 14:25	02/05/26 13:44	1
13C2 PFDoA	106		50 - 200			02/03/26 14:25	02/05/26 13:44	1
13C4 PFBA	109		50 - 200			02/03/26 14:25	02/05/26 13:44	1
13C5 PFPeA	105		50 - 200			02/03/26 14:25	02/05/26 13:44	1
13C3 PFBS	116		50 - 200			02/03/26 14:25	02/05/26 13:44	1
13C3 PFHxS	118		50 - 200			02/03/26 14:25	02/05/26 13:44	1

Eurofins Pomona

QC Sample Results

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

Job ID: 380-195120-1
SDG: Site H1 PFAS 533/537.1

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

Lab Sample ID: MBL 380-203099/20-A

Matrix: Water

Analysis Batch: 203659

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 203099

Isotope Dilution	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOS	118		50 - 200	02/03/26 14:25	02/05/26 13:44	1
13C2-4:2-FTS	115		50 - 200	02/03/26 14:25	02/05/26 13:44	1
13C2-6:2-FTS	115		50 - 200	02/03/26 14:25	02/05/26 13:44	1
13C2-8:2-FTS	108		50 - 200	02/03/26 14:25	02/05/26 13:44	1

Lab Sample ID: LCS 380-203099/22-A

Matrix: Water

Analysis Batch: 203659

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 203099

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	60.2	53.5		ng/L		89	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	60.2	52.6		ng/L		87	70 - 130
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	60.2	59.9		ng/L		99	70 - 130
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	60.2	59.5		ng/L		99	70 - 130
Perfluorobutanesulfonic acid (PFBS)	60.2	56.4		ng/L		94	70 - 130
Perfluorodecanoic acid (PFDA)	60.2	58.2		ng/L		97	70 - 130
Perfluorododecanoic acid (PFDoA)	60.2	58.9		ng/L		98	70 - 130
Perfluoroheptanoic acid (PFHpA)	60.2	59.6		ng/L		99	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	60.2	56.4		ng/L		94	70 - 130
Perfluorohexanoic acid (PFHxA)	60.2	56.7		ng/L		94	70 - 130
Perfluorononanoic acid (PFNA)	60.2	57.8		ng/L		96	70 - 130
Perfluorooctanesulfonic acid (PFOS)	60.2	54.5		ng/L		90	70 - 130
Perfluorooctanoic acid (PFOA)	60.2	57.6		ng/L		96	70 - 130
Perfluoroundecanoic acid (PFUnA)	60.2	58.7		ng/L		98	70 - 130
Perfluorobutanoic acid (PFBA)	60.2	56.7		ng/L		94	70 - 130
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	60.2	58.6		ng/L		97	70 - 130
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	60.2	59.5		ng/L		99	70 - 130
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	60.2	58.3		ng/L		97	70 - 130
Nonfluoro-3,6-dioxahexanoic acid (NFDHA)	60.2	54.3		ng/L		90	70 - 130
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	60.2	55.3		ng/L		92	70 - 130
Perfluoro-3-methoxypropanoic acid (PFMPA)	60.2	57.0		ng/L		95	70 - 130
Perfluoro-4-methoxybutanoic acid (PFMBA)	60.2	59.8		ng/L		99	70 - 130
Perfluoropentanoic acid (PFPeA)	60.2	59.0		ng/L		98	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	60.2	53.9		ng/L		89	70 - 130

Eurofins Pomona

QC Sample Results

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

Job ID: 380-195120-1
SDG: Site H1 PFAS 533/537.1

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

Lab Sample ID: LCS 380-203099/22-A

Matrix: Water

Analysis Batch: 203659

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 203099

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoropentanesulfonic acid (PFPeS)	60.2	58.9		ng/L		98	70 - 130
	LCS	LCS					
Isotope Dilution	%Recovery	Qualifier	Limits				
13C3 HFPO-DA	105		50 - 200				
13C6 PFDA	109		50 - 200				
13C5 PFHxA	109		50 - 200				
13C4 PFHpA	108		50 - 200				
13C8 PFOA	106		50 - 200				
13C9 PFNA	110		50 - 200				
13C7 PFUnA	107		50 - 200				
13C2 PFDoA	109		50 - 200				
13C4 PFBA	111		50 - 200				
13C5 PFPeA	109		50 - 200				
13C3 PFBS	112		50 - 200				
13C3 PFHxS	111		50 - 200				
13C8 PFOS	117		50 - 200				
13C2-4:2-FTS	112		50 - 200				
13C2-6:2-FTS	110		50 - 200				
13C2-8:2-FTS	108		50 - 200				

Lab Sample ID: MRL 380-203099/21-A

Matrix: Water

Analysis Batch: 203659

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 203099

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.00	2.08	J	ng/L		104	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	2.00	2.08	J	ng/L		104	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.00	2.11	J	ng/L		105	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	2.00	2.15	J	ng/L		107	50 - 150
Perfluorobutanesulfonic acid (PFBS)	2.00	2.07	J	ng/L		103	50 - 150
Perfluorodecanoic acid (PFDA)	2.00	2.24	J	ng/L		112	50 - 150
Perfluorododecanoic acid (PFDoA)	2.00	2.22	J	ng/L		111	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.00	2.20	J	ng/L		110	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	2.00	2.12	J	ng/L		106	50 - 150
Perfluorohexanoic acid (PFHxA)	2.00	2.03	J	ng/L		101	50 - 150
Perfluorononanoic acid (PFNA)	2.00	2.16	J	ng/L		108	50 - 150
Perfluorooctanesulfonic acid (PFOS)	2.00	2.15	J	ng/L		107	50 - 150
Perfluorooctanoic acid (PFOA)	2.00	2.20	J	ng/L		110	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.00	2.16	J	ng/L		108	50 - 150
Perfluorobutanoic acid (PFBA)	2.00	2.06	J	ng/L		103	50 - 150

Eurofins Pomona

QC Sample Results

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

Job ID: 380-195120-1
SDG: Site H1 PFAS 533/537.1

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

Lab Sample ID: MRL 380-203099/21-A

Matrix: Water

Analysis Batch: 203659

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 203099

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	2.00	2.09	J	ng/L		104	50 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	2.00	2.17	J	ng/L		108	50 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	2.00	2.27	J	ng/L		113	50 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	2.00	2.16	J	ng/L		108	50 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEA)	2.00	2.00	J	ng/L		100	50 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	2.00	2.06	J	ng/L		103	50 - 150
Perfluoro-4-methoxybutanoic acid (PFMBA)	2.00	2.18	J	ng/L		109	50 - 150
Perfluoropentanoic acid (PFPeA)	2.00	2.34	J	ng/L		117	50 - 150
Perfluoroheptanesulfonic acid (PFHpS)	2.00	2.00	J	ng/L		100	50 - 150
Perfluoropentanesulfonic acid (PFPeS)	2.00	2.00	J	ng/L		100	50 - 150

Isotope Dilution	%Recovery	MRL Qualifier	MRL Limits
13C3 HFPO-DA	107		50 - 200
13C6 PFDA	106		50 - 200
13C5 PFHxA	110		50 - 200
13C4 PFHpA	109		50 - 200
13C8 PFOA	107		50 - 200
13C9 PFNA	108		50 - 200
13C7 PFUnA	105		50 - 200
13C2 PFDoA	109		50 - 200
13C4 PFBA	109		50 - 200
13C5 PFPeA	105		50 - 200
13C3 PFBS	114		50 - 200
13C3 PFHxS	110		50 - 200
13C8 PFOS	115		50 - 200
13C2-4:2-FTS	119		50 - 200
13C2-6:2-FTS	114		50 - 200
13C2-8:2-FTS	107		50 - 200

Lab Sample ID: 380-195095-E-1-A MS

Matrix: Water

Analysis Batch: 203659

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 203099

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		60.2	53.7		ng/L		89	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		60.2	52.7		ng/L		88	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		60.2	58.7		ng/L		97	70 - 130

Eurofins Pomona

QC Sample Results

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

Job ID: 380-195120-1
SDG: Site H1 PFAS 533/537.1

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

Lab Sample ID: 380-195095-E-1-A MS

Matrix: Water

Analysis Batch: 203659

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 203099

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide	<2.0		60.2	57.5		ng/L		95	70 - 130
Dimer Acid (HFPO-DA/GenX)									
Perfluorobutanesulfonic acid (PFBS)	<2.0		60.2	55.5		ng/L		92	70 - 130
Perfluorodecanoic acid (PFDA)	<2.0		60.2	57.6		ng/L		96	70 - 130
Perfluorododecanoic acid (PFDoA)	<2.0		60.2	60.2		ng/L		100	70 - 130
Perfluoroheptanoic acid (PFHpA)	<2.0		60.2	59.1		ng/L		98	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	<2.0		60.2	56.3		ng/L		93	70 - 130
Perfluorohexanoic acid (PFHxA)	<2.0		60.2	57.9		ng/L		96	70 - 130
Perfluorononanoic acid (PFNA)	<2.0		60.2	57.0		ng/L		95	70 - 130
Perfluorooctanesulfonic acid (PFOS)	<2.0		60.2	52.8		ng/L		88	70 - 130
Perfluorooctanoic acid (PFOA)	<2.0		60.2	58.7		ng/L		97	70 - 130
Perfluoroundecanoic acid (PFUnA)	<2.0		60.2	56.8		ng/L		94	70 - 130
Perfluorobutanoic acid (PFBA)	<2.0		60.2	54.7		ng/L		91	70 - 130
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		60.2	58.2		ng/L		97	70 - 130
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		60.2	57.1		ng/L		95	70 - 130
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		60.2	58.5		ng/L		96	70 - 130
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		60.2	55.4		ng/L		92	70 - 130
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEA)	<2.0		60.2	55.7		ng/L		92	70 - 130
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		60.2	60.3		ng/L		100	70 - 130
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		60.2	60.2		ng/L		100	70 - 130
Perfluoropentanoic acid (PFPeA)	<2.0		60.2	59.3		ng/L		98	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		60.2	55.0		ng/L		91	70 - 130
Perfluoropentanesulfonic acid (PFPeS)	<2.0		60.2	57.3		ng/L		95	70 - 130

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
13C3 HFPO-DA	105		50 - 200
13C6 PFDA	107		50 - 200
13C5 PFHxA	107		50 - 200
13C4 PFHpA	109		50 - 200
13C8 PFOA	107		50 - 200
13C9 PFNA	108		50 - 200
13C7 PFUnA	109		50 - 200
13C2 PFDoA	107		50 - 200
13C4 PFBA	108		50 - 200
13C5 PFPeA	108		50 - 200
13C3 PFBS	114		50 - 200
13C3 PFHxS	114		50 - 200
13C8 PFOS	118		50 - 200

Eurofins Pomona

QC Sample Results

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

Job ID: 380-195120-1
SDG: Site H1 PFAS 533/537.1

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

Lab Sample ID: 380-195095-E-1-A MS

Matrix: Water

Analysis Batch: 203659

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 203099

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
13C2-4:2-FTS	116		50 - 200
13C2-6:2-FTS	118		50 - 200
13C2-8:2-FTS	109		50 - 200

Lab Sample ID: 380-195095-F-1-A MSD

Matrix: Water

Analysis Batch: 203659

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 203099

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		60.4	55.9		ng/L		93	70 - 130	4	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	<2.0		60.4	56.2		ng/L		93	70 - 130	6	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		60.4	60.0		ng/L		99	70 - 130	2	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		60.4	59.9		ng/L		99	70 - 130	4	30
Perfluorobutanesulfonic acid (PFBS)	<2.0		60.4	55.2		ng/L		92	70 - 130	0	30
Perfluorodecanoic acid (PFDA)	<2.0		60.4	58.4		ng/L		97	70 - 130	1	30
Perfluorododecanoic acid (PFDoA)	<2.0		60.4	59.0		ng/L		98	70 - 130	2	30
Perfluoroheptanoic acid (PFHpA)	<2.0		60.4	59.1		ng/L		98	70 - 130	0	30
Perfluorohexanesulfonic acid (PFHxS)	<2.0		60.4	56.5		ng/L		94	70 - 130	0	30
Perfluorohexanoic acid (PFHxA)	<2.0		60.4	56.4		ng/L		93	70 - 130	3	30
Perfluorononanoic acid (PFNA)	<2.0		60.4	58.1		ng/L		96	70 - 130	2	30
Perfluorooctanesulfonic acid (PFOS)	<2.0		60.4	56.5		ng/L		94	70 - 130	7	30
Perfluorooctanoic acid (PFOA)	<2.0		60.4	58.5		ng/L		97	70 - 130	0	30
Perfluoroundecanoic acid (PFUnA)	<2.0		60.4	60.1		ng/L		100	70 - 130	6	30
Perfluorobutanoic acid (PFBA)	<2.0		60.4	57.4		ng/L		95	70 - 130	5	30
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		60.4	61.7		ng/L		102	70 - 130	6	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		60.4	59.1		ng/L		98	70 - 130	4	30
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		60.4	61.5		ng/L		101	70 - 130	5	30
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		60.4	53.3		ng/L		88	70 - 130	4	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		60.4	55.0		ng/L		91	70 - 130	1	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		60.4	55.9		ng/L		93	70 - 130	8	30
Perfluoro-4-methoxybutanoic acid (PFMPA)	<2.0		60.4	59.2		ng/L		98	70 - 130	2	30
Perfluoropentanoic acid (PFPeA)	<2.0		60.4	59.8		ng/L		99	70 - 130	1	30
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		60.4	57.1		ng/L		95	70 - 130	4	30
Perfluoropentanesulfonic acid (PFPeS)	<2.0		60.4	56.4		ng/L		93	70 - 130	2	30

Eurofins Pomona

QC Sample Results

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

Job ID: 380-195120-1
SDG: Site H1 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	103		50 - 200
13C6 PFDA	108		50 - 200
13C5 PFHxA	112		50 - 200
13C4 PFHpA	107		50 - 200
13C8 PFOA	108		50 - 200
13C9 PFNA	108		50 - 200
13C7 PFUnA	108		50 - 200
13C2 PFDoA	107		50 - 200
13C4 PFBA	109		50 - 200
13C5 PFPeA	106		50 - 200
13C3 PFBS	112		50 - 200
13C3 PFHxS	113		50 - 200
13C8 PFOS	112		50 - 200
13C2-4:2-FTS	113		50 - 200
13C2-6:2-FTS	109		50 - 200
13C2-8:2-FTS	102		50 - 200

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

Lab Sample ID: MBL 380-202484/18-A
Matrix: Water
Analysis Batch: 202536

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202484

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		01/31/26 11:32	02/01/26 14:44	1
Perfluorooctanesulfonic acid (PFOS)	<0.43		2.0	ng/L		01/31/26 11:32	02/01/26 14:44	1
Perfluoroundecanoic acid (PFUnA)	<0.42		2.0	ng/L		01/31/26 11:32	02/01/26 14:44	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.58		2.0	ng/L		01/31/26 11:32	02/01/26 14:44	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.42		2.0	ng/L		01/31/26 11:32	02/01/26 14:44	1
Perfluorohexanoic acid (PFHxA)	<0.46		2.0	ng/L		01/31/26 11:32	02/01/26 14:44	1
Perfluorododecanoic acid (PFDoA)	<0.54		2.0	ng/L		01/31/26 11:32	02/01/26 14:44	1
Perfluorooctanoic acid (PFOA)	<0.38		2.0	ng/L		01/31/26 11:32	02/01/26 14:44	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	ng/L		01/31/26 11:32	02/01/26 14:44	1
Perfluorohexanesulfonic acid (PFHxS)	<0.32		2.0	ng/L		01/31/26 11:32	02/01/26 14:44	1
Perfluorobutanesulfonic acid (PFBS)	<0.37		2.0	ng/L		01/31/26 11:32	02/01/26 14:44	1
Perfluoroheptanoic acid (PFHpA)	<0.39		2.0	ng/L		01/31/26 11:32	02/01/26 14:44	1
Perfluorononanoic acid (PFNA)	<0.40		2.0	ng/L		01/31/26 11:32	02/01/26 14:44	1
Perfluorotetradecanoic acid (PFTA)	<0.54		2.0	ng/L		01/31/26 11:32	02/01/26 14:44	1
Perfluorotridecanoic acid (PFTTrDA)	<0.36		2.0	ng/L		01/31/26 11:32	02/01/26 14:44	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<0.30		2.0	ng/L		01/31/26 11:32	02/01/26 14:44	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<0.30		2.0	ng/L		01/31/26 11:32	02/01/26 14:44	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.60		2.0	ng/L		01/31/26 11:32	02/01/26 14:44	1
Surrogate	MBL MBL		Limits			Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier						
d5-NEtFOSAA	106		70 - 130			01/31/26 11:32	02/01/26 14:44	1
13C2 PFHxA	95		70 - 130			01/31/26 11:32	02/01/26 14:44	1
13C2 PFDA	103		70 - 130			01/31/26 11:32	02/01/26 14:44	1

Eurofins Pomona

QC Sample Results

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

Job ID: 380-195120-1
SDG: Site H1 PFAS 533/537.1

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

Lab Sample ID: MBL 380-202484/18-A

Matrix: Water

Analysis Batch: 202536

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 202484

Surrogate	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3-GenX	83		70 - 130	01/31/26 11:32	02/01/26 14:44	1

Lab Sample ID: LCS 380-202484/20-A

Matrix: Water

Analysis Batch: 202536

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 202484

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide	25.1	22.5		ng/L		90	70 - 130
Dimer Acid (HFPO-DA/GenX)							
Perfluorooctanesulfonic acid (PFOS)	25.1	25.1		ng/L		100	70 - 130
Perfluoroundecanoic acid (PFUnA)	25.1	26.6		ng/L		106	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	25.1	22.9		ng/L		91	70 - 130
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	25.1	24.0		ng/L		96	70 - 130
Perfluorohexanoic acid (PFHxA)	25.1	26.1		ng/L		104	70 - 130
Perfluorododecanoic acid (PFDoA)	25.1	23.7		ng/L		95	70 - 130
Perfluorooctanoic acid (PFOA)	25.1	25.1		ng/L		100	70 - 130
Perfluorodecanoic acid (PFDA)	25.1	26.4		ng/L		106	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	25.1	24.5		ng/L		98	70 - 130
Perfluorobutanesulfonic acid (PFBS)	25.1	25.2		ng/L		101	70 - 130
Perfluoroheptanoic acid (PFHpA)	25.1	26.1		ng/L		104	70 - 130
Perfluorononanoic acid (PFNA)	25.1	25.6		ng/L		102	70 - 130
Perfluorotetradecanoic acid (PFTA)	25.1	25.2		ng/L		101	70 - 130
Perfluorotridecanoic acid (PFTrDA)	25.1	26.7		ng/L		106	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	25.1	26.2		ng/L		105	70 - 130
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	25.1	25.4		ng/L		101	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	25.1	23.8		ng/L		95	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
d5-NEtFOSAA	92		70 - 130
13C2 PFHxA	96		70 - 130
13C2 PFDA	104		70 - 130
13C3-GenX	86		70 - 130

QC Sample Results

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

Job ID: 380-195120-1
SDG: Site H1 PFAS 533/537.1

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

Lab Sample ID: MRL 380-202484/19-A
Matrix: Water
Analysis Batch: 202536

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202484

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide	2.00	2.00	J	ng/L		100	50 - 150
Dimer Acid (HFPO-DA/GenX)							
Perfluorooctanesulfonic acid (PFOS)	2.00	2.10	J	ng/L		105	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.00	2.28	J	ng/L		114	50 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00	2.14	J	ng/L		107	50 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.00	2.21	J	ng/L		110	50 - 150
Perfluorohexanoic acid (PFHxA)	2.00	2.21	J	ng/L		110	50 - 150
Perfluorododecanoic acid (PFDoA)	2.00	1.98	J	ng/L		99	50 - 150
Perfluorooctanoic acid (PFOA)	2.00	2.13	J	ng/L		107	50 - 150
Perfluorodecanoic acid (PFDA)	2.00	2.24	J	ng/L		112	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	2.00	2.03	J	ng/L		101	50 - 150
Perfluorobutanesulfonic acid (PFBS)	2.00	2.18	J	ng/L		109	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.00	2.16	J	ng/L		108	50 - 150
Perfluorononanoic acid (PFNA)	2.00	2.16	J	ng/L		108	50 - 150
Perfluorotetradecanoic acid (PFTA)	2.00	2.00	J	ng/L		100	50 - 150
Perfluorotridecanoic acid (PFTrDA)	2.00	2.20	J	ng/L		110	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	2.00	2.17	J	ng/L		108	50 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.00	2.05	J	ng/L		102	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.00	2.01	J	ng/L		100	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
d5-NEtFOSAA	101		70 - 130
13C2 PFHxA	100		70 - 130
13C2 PFDA	99		70 - 130
13C3-GenX	89		70 - 130

Lab Sample ID: 380-194997-M-2-A MS
Matrix: Water
Analysis Batch: 202536

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 202484

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide	<2.0		50.2	50.1		ng/L		100	70 - 130
Dimer Acid (HFPO-DA/GenX)									
Perfluorooctanesulfonic acid (PFOS)	<2.0		50.2	51.4		ng/L		102	70 - 130
Perfluoroundecanoic acid (PFUnA)	<2.0		50.2	52.1		ng/L		104	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		50.2	51.1		ng/L		102	70 - 130

Eurofins Pomona

QC Sample Results

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

Job ID: 380-195120-1
SDG: Site H1 PFAS 533/537.1

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

Lab Sample ID: 380-194997-M-2-A MS

Matrix: Water

Analysis Batch: 202536

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 202484

	Sample	Sample	Spike	MS	MS			%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
N-ethylperfluorooctanesulfonami doacetic acid (NEtFOSAA)	<2.0		50.2	50.0		ng/L		100	70 - 130	
Perfluorohexanoic acid (PFHxA)	<2.0		50.2	50.1		ng/L		100	70 - 130	
Perfluorododecanoic acid (PFDoA)	<2.0		50.2	47.8		ng/L		95	70 - 130	
Perfluorooctanoic acid (PFOA)	<2.0		50.2	52.2		ng/L		104	70 - 130	
Perfluorodecanoic acid (PFDA)	<2.0		50.2	51.9		ng/L		103	70 - 130	
Perfluorohexanesulfonic acid (PFHxS)	<2.0		50.2	52.9		ng/L		105	70 - 130	
Perfluorobutanesulfonic acid (PFBS)	<2.0		50.2	54.9		ng/L		109	70 - 130	
Perfluoroheptanoic acid (PFHpA)	<2.0		50.2	48.3		ng/L		96	70 - 130	
Perfluorononanoic acid (PFNA)	<2.0		50.2	49.8		ng/L		99	70 - 130	
Perfluorotetradecanoic acid (PFTA)	<2.0		50.2	46.8		ng/L		93	70 - 130	
Perfluorotridecanoic acid (PFTrDA)	<2.0		50.2	52.2		ng/L		104	70 - 130	
9-Chlorohexadecafluoro-3-oxan onane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		50.2	51.6		ng/L		103	70 - 130	
11-Chloroeicosafluoro-3-oxaund ecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		50.2	54.0		ng/L		108	70 - 130	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		50.2	48.5		ng/L		97	70 - 130	

Lab Sample ID: 380-194997-N-2-A MSD

Matrix: Water

Analysis Batch: 202536

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 202484

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		50.3	50.6		ng/L		101	70 - 130	1	30
Perfluorooctanesulfonic acid (PFOS)	<2.0		50.3	49.0		ng/L		97	70 - 130	5	30
Perfluoroundecanoic acid (PFUnA)	<2.0		50.3	55.4		ng/L		110	70 - 130	6	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		50.3	50.3		ng/L		100	70 - 130	2	30
N-ethylperfluorooctanesulfonamidoacetic acid (NETFOSAA)	<2.0		50.3	49.7		ng/L		99	70 - 130	1	30
Perfluorohexanoic acid (PFHxA)	<2.0		50.3	54.2		ng/L		108	70 - 130	8	30
Perfluorododecanoic acid (PFDoA)	<2.0		50.3	50.5		ng/L		100	70 - 130	5	30
Perfluorooctanoic acid (PFOA)	<2.0		50.3	52.8		ng/L		105	70 - 130	1	30
Perfluorodecanoic acid (PFDA)	<2.0		50.3	53.9		ng/L		107	70 - 130	4	30

Eurofins Pomona

QC Sample Results

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

Job ID: 380-195120-1
SDG: Site H1 PFAS 533/537.1

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

Lab Sample ID: 380-194997-N-2-A MSD

Matrix: Water

Analysis Batch: 202536

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 202484

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorohexanesulfonic acid (PFHxS)	<2.0		50.3	50.3		ng/L		100	70 - 130	5	30
Perfluorobutanesulfonic acid (PFBS)	<2.0		50.3	52.1		ng/L		104	70 - 130	5	30
Perfluoroheptanoic acid (PFHpA)	<2.0		50.3	52.9		ng/L		105	70 - 130	9	30
Perfluorononanoic acid (PFNA)	<2.0		50.3	53.4		ng/L		106	70 - 130	7	30
Perfluorotetradecanoic acid (PFTA)	<2.0		50.3	45.9		ng/L		91	70 - 130	2	30
Perfluorotridecanoic acid (PFTrDA)	<2.0		50.3	56.0		ng/L		111	70 - 130	7	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		50.3	51.9		ng/L		103	70 - 130	0	30
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		50.3	51.6		ng/L		103	70 - 130	5	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		50.3	51.2		ng/L		102	70 - 130	5	30
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
d5-NEtFOSAA	99		70 - 130								
13C2 PFHxA	107		70 - 130								
13C2 PFDA	110		70 - 130								
13C3-GenX	100		70 - 130								

QC Association Summary

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

Job ID: 380-195120-1
SDG: Site H1 PFAS 533/537.1

LCMS

Prep Batch: 202484

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-195120-1	BWS2253-H1-AQ	Total/NA	Water	537.1 DW	
380-195120-2	BWS2253-H1-FB	Total/NA	Water	537.1 DW	
MBL 380-202484/18-A	Method Blank	Total/NA	Water	537.1 DW	
LCS 380-202484/20-A	Lab Control Sample	Total/NA	Water	537.1 DW	
MRL 380-202484/19-A	Lab Control Sample	Total/NA	Water	537.1 DW	
380-194997-M-2-A MS	Matrix Spike	Total/NA	Water	537.1 DW	
380-194997-N-2-A MSD	Matrix Spike Duplicate	Total/NA	Water	537.1 DW	

Analysis Batch: 202536

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-195120-1	BWS2253-H1-AQ	Total/NA	Water	537.1	202484
380-195120-2	BWS2253-H1-FB	Total/NA	Water	537.1	202484
MBL 380-202484/18-A	Method Blank	Total/NA	Water	537.1	202484
LCS 380-202484/20-A	Lab Control Sample	Total/NA	Water	537.1	202484
MRL 380-202484/19-A	Lab Control Sample	Total/NA	Water	537.1	202484
380-194997-M-2-A MS	Matrix Spike	Total/NA	Water	537.1	202484
380-194997-N-2-A MSD	Matrix Spike Duplicate	Total/NA	Water	537.1	202484

Prep Batch: 203099

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-195120-1	BWS2253-H1-AQ	Total/NA	Water	533	
380-195120-2	BWS2253-H1-FB	Total/NA	Water	533	
MBL 380-203099/20-A	Method Blank	Total/NA	Water	533	
LCS 380-203099/22-A	Lab Control Sample	Total/NA	Water	533	
MRL 380-203099/21-A	Lab Control Sample	Total/NA	Water	533	
380-195095-E-1-A MS	Matrix Spike	Total/NA	Water	533	
380-195095-F-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	533	

Analysis Batch: 203659

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-195120-1	BWS2253-H1-AQ	Total/NA	Water	533	203099
380-195120-2	BWS2253-H1-FB	Total/NA	Water	533	203099
MBL 380-203099/20-A	Method Blank	Total/NA	Water	533	203099
LCS 380-203099/22-A	Lab Control Sample	Total/NA	Water	533	203099
MRL 380-203099/21-A	Lab Control Sample	Total/NA	Water	533	203099
380-195095-E-1-A MS	Matrix Spike	Total/NA	Water	533	203099
380-195095-F-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	533	203099

Lab Chronicle

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

Job ID: 380-195120-1
SDG: Site H1 PFAS 533/537.1

Client Sample ID: BWS2253-H1-AQ

Lab Sample ID: 380-195120-1

Date Collected: 01/28/26 09:30

Matrix: Water

Date Received: 01/29/26 09:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			203099	E2HD	EA POM	02/03/26 14:25
Total/NA	Analysis	533		1	203659	Y5FM	EA POM	02/05/26 16:53
Total/NA	Prep	537.1 DW			202484	N8NE	EA POM	01/31/26 11:32
Total/NA	Analysis	537.1		1	202536	SZ9R	EA POM	02/01/26 16:39

Client Sample ID: BWS2253-H1-FB

Lab Sample ID: 380-195120-2

Date Collected: 01/28/26 09:30

Matrix: Water

Date Received: 01/29/26 09:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			203099	E2HD	EA POM	02/03/26 14:25
Total/NA	Analysis	533		1	203659	Y5FM	EA POM	02/05/26 17:02
Total/NA	Prep	537.1 DW			202484	N8NE	EA POM	01/31/26 11:32
Total/NA	Analysis	537.1		1	202536	SZ9R	EA POM	02/01/26 16:48

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: 380-195120-1
SDG: Site H1 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 *

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

Method Summary

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

Job ID: 380-195120-1
SDG: Site H1 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: 380-195120-1
SDG: Site H1 PFAS 533/537.1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
380-195120-1	BWS2253-H1-AQ	Water	01/28/26 09:30	01/29/26 09:52	Hawaii
380-195120-2	BWS2253-H1-FB	Water	01/28/26 09:30	01/29/26 09:52	Hawaii

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17



Chain of Custody Record

380-195120 COC

Client Information City & County of Honolulu 6330 South Beretania Street Honolulu, HI 96843 Phone: 808-748-5066 Email: ekawata@hbws.org Project Name: HRS-340E - RED-HILL - INTERA Site: Site H1		Sampler: Lopez, Maria Lab PM: Lopez, Maria E-Mail: Maria.Lopez@et.eurofinsus.com Phone: 858-205-0730 PWSID:		Carrier Tracking No(s): State of Origin: Hawaii Page: Page 1 of 1 Job #:		COC No:																	
Due Date Requested: TAT Requested (days): Standard Compliance Project: A Yes No PO #: 808-748-5066 WO #: Project #: 38000861 SSOW#:		Analysis Requested <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>Field Filled Sample (Yes or No)</th> <th>625 PAH Only + Ties</th> <th>THS 3013 D-M, W, P, J, F, J, D</th> <th>ASOR (MOP) Super Volatiles List</th> <th>60 to 600 days</th> <th>PFAS 537: All Analyses</th> <th>PFAS 537: L, OW, P, REC-537: 1 Full List</th> <th>PFAS 1633: D, OW, P, REC-1633: Full List</th> </tr> <tr> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> </tr> </table>						Field Filled Sample (Yes or No)	625 PAH Only + Ties	THS 3013 D-M, W, P, J, F, J, D	ASOR (MOP) Super Volatiles List	60 to 600 days	PFAS 537: All Analyses	PFAS 537: L, OW, P, REC-537: 1 Full List	PFAS 1633: D, OW, P, REC-1633: Full List	☒	☒	☒	☒	☒	☒	☒	☒
Field Filled Sample (Yes or No)	625 PAH Only + Ties	THS 3013 D-M, W, P, J, F, J, D	ASOR (MOP) Super Volatiles List	60 to 600 days	PFAS 537: All Analyses	PFAS 537: L, OW, P, REC-537: 1 Full List	PFAS 1633: D, OW, P, REC-1633: Full List																
☒	☒	☒	☒	☒	☒	☒	☒																
Sample Identification BWS2253-H1-AQ BWS2253-H1-FB		Sample Date 1/28/2026 1/28/2026		Sample Time 9:30 9:30		Sample Type G G		Matrix Water Water		Preservation Code: G G													
Possible Hazard Identification ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown ☐ Radiological																							
Deliverable Requested: I II III IV Other (specify)																							
Empty Kit Relinquished by:																							
Relinquished by: Date: 4/28/24 13:00 Company: INTERA Inc																							
Relinquished by: Date: Company:																							
Relinquished by: Date: Company:																							
Relinquished by: Date: Company:																							
Custody Seals Intact: A Yes A No																							

Ver 01/16/2019

101 4517

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-195120-1
SDG Number: Site H1 PFAS 533/537.1

Login Number: 195120

List Number: 1

Creator: Gross, Drake

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").	N/A	
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	