

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 7/8/2026 4:13:09 PM

JOB DESCRIPTION

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

JOB NUMBER

380-222668-1

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
7/8/2026 4:13:09 PM

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	29
Lab Chronicle	31
Certification Summary	32
Method Summary	33
Sample Summary	34
Chain of Custody	35
Receipt Checklists	36



Definitions/Glossary

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

Job ID: 380-222668-1
SDG: Site H1 PFAS 533/537.1

Qualifiers

LCMS

Qualifier	Qualifier Description
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
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: 380-222668-1

Job ID: 380-222668-1

Eurofins Pomona

Job Narrative 380-222668-1

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 7/2/2026 10:15 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 2.2°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: 380-222668-1
SDG: Site H1 PFAS 533/537.1

Client Sample ID: BWS2253-H1-AQ

Lab Sample ID: 380-222668-1

No Detections.

Client Sample ID: BWS2253-H1-FB

Lab Sample ID: 380-222668-2

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: 380-222668-1
SDG: Site H1 PFAS 533/537.1

Client Sample ID: BWS2253-H1-AQ

Lab Sample ID: 380-222668-1

Date Collected: 06/30/26 11:30

Matrix: Water

Date Received: 07/02/26 10:15

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		07/03/26 13:40	07/06/26 10:51	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		07/03/26 13:40	07/06/26 10:51	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		07/03/26 13:40	07/06/26 10:51	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		07/03/26 13:40	07/06/26 10:51	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		07/03/26 13:40	07/06/26 10:51	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		07/03/26 13:40	07/06/26 10:51	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		07/03/26 13:40	07/06/26 10:51	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		07/03/26 13:40	07/06/26 10:51	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		07/03/26 13:40	07/06/26 10:51	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		07/03/26 13:40	07/06/26 10:51	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		07/03/26 13:40	07/06/26 10:51	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		07/03/26 13:40	07/06/26 10:51	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		07/03/26 13:40	07/06/26 10:51	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		07/03/26 13:40	07/06/26 10:51	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		07/03/26 13:40	07/06/26 10:51	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		07/03/26 13:40	07/06/26 10:51	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		07/03/26 13:40	07/06/26 10:51	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		07/03/26 13:40	07/06/26 10:51	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		07/03/26 13:40	07/06/26 10:51	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<2.0		2.0	ng/L		07/03/26 13:40	07/06/26 10:51	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		07/03/26 13:40	07/06/26 10:51	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		07/03/26 13:40	07/06/26 10:51	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		07/03/26 13:40	07/06/26 10:51	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		07/03/26 13:40	07/06/26 10:51	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		07/03/26 13:40	07/06/26 10:51	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	90		50 - 200	07/03/26 13:40	07/06/26 10:51	1
13C6 PFDA	80		50 - 200	07/03/26 13:40	07/06/26 10:51	1
13C5 PFHxA	97		50 - 200	07/03/26 13:40	07/06/26 10:51	1
13C4 PFHpA	98		50 - 200	07/03/26 13:40	07/06/26 10:51	1
13C8 PFOA	92		50 - 200	07/03/26 13:40	07/06/26 10:51	1
13C9 PFNA	91		50 - 200	07/03/26 13:40	07/06/26 10:51	1
13C7 PFUnA	82		50 - 200	07/03/26 13:40	07/06/26 10:51	1
13C2 PFDoA	80		50 - 200	07/03/26 13:40	07/06/26 10:51	1
13C4 PFBA	109		50 - 200	07/03/26 13:40	07/06/26 10:51	1
13C5 PFPeA	122		50 - 200	07/03/26 13:40	07/06/26 10:51	1
13C3 PFBS	114		50 - 200	07/03/26 13:40	07/06/26 10:51	1
13C3 PFHxS	110		50 - 200	07/03/26 13:40	07/06/26 10:51	1
13C8 PFOS	109		50 - 200	07/03/26 13:40	07/06/26 10:51	1

Eurofins Pomona

Client Sample Results

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

Job ID: 380-222668-1
SDG: Site H1 PFAS 533/537.1

Client Sample ID: BWS2253-H1-AQ

Lab Sample ID: 380-222668-1

Date Collected: 06/30/26 11:30

Matrix: Water

Date Received: 07/02/26 10:15

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	136		50 - 200	07/03/26 13:40	07/06/26 10:51	1
13C2-6:2-FTS	127		50 - 200	07/03/26 13:40	07/06/26 10:51	1
13C2-8:2-FTS	112		50 - 200	07/03/26 13:40	07/06/26 10:51	1

Method: EPA 537.1 V2 - EPA 537.1 Ver. 2.0 March 2020

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		07/03/26 14:09	07/06/26 11:51	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		07/03/26 14:09	07/06/26 11:51	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		07/03/26 14:09	07/06/26 11:51	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		07/03/26 14:09	07/06/26 11:51	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		07/03/26 14:09	07/06/26 11:51	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		07/03/26 14:09	07/06/26 11:51	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		07/03/26 14:09	07/06/26 11:51	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		07/03/26 14:09	07/06/26 11:51	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		07/03/26 14:09	07/06/26 11:51	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		07/03/26 14:09	07/06/26 11:51	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		07/03/26 14:09	07/06/26 11:51	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		07/03/26 14:09	07/06/26 11:51	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		07/03/26 14:09	07/06/26 11:51	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		07/03/26 14:09	07/06/26 11:51	1
Perfluorotridecanoic acid (PFTTrDA)	<2.0		2.0	ng/L		07/03/26 14:09	07/06/26 11:51	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		07/03/26 14:09	07/06/26 11:51	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		07/03/26 14:09	07/06/26 11:51	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		07/03/26 14:09	07/06/26 11:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	111		70 - 130			07/03/26 14:09	07/06/26 11:51	1
13C2 PFHxA	100		70 - 130			07/03/26 14:09	07/06/26 11:51	1
13C2 PFDA	109		70 - 130			07/03/26 14:09	07/06/26 11:51	1
13C3-GenX	103		70 - 130			07/03/26 14:09	07/06/26 11:51	1

Client Sample ID: BWS2253-H1-FB

Lab Sample ID: 380-222668-2

Date Collected: 06/30/26 11:30

Matrix: Water

Date Received: 07/02/26 10:15

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		07/03/26 13:40	07/06/26 11:00	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		07/03/26 13:40	07/06/26 11:00	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		07/03/26 13:40	07/06/26 11:00	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		07/03/26 13:40	07/06/26 11:00	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		07/03/26 13:40	07/06/26 11:00	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		07/03/26 13:40	07/06/26 11:00	1

Eurofins Pomona

Client Sample Results

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

Job ID: 380-222668-1
SDG: Site H1 PFAS 533/537.1

Client Sample ID: BWS2253-H1-FB

Lab Sample ID: 380-222668-2

Date Collected: 06/30/26 11:30

Matrix: Water

Date Received: 07/02/26 10:15

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		07/03/26 13:40	07/06/26 11:00	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		07/03/26 13:40	07/06/26 11:00	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		07/03/26 13:40	07/06/26 11:00	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		07/03/26 13:40	07/06/26 11:00	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		07/03/26 13:40	07/06/26 11:00	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		07/03/26 13:40	07/06/26 11:00	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		07/03/26 13:40	07/06/26 11:00	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		07/03/26 13:40	07/06/26 11:00	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		07/03/26 13:40	07/06/26 11:00	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		07/03/26 13:40	07/06/26 11:00	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		07/03/26 13:40	07/06/26 11:00	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		07/03/26 13:40	07/06/26 11:00	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		07/03/26 13:40	07/06/26 11:00	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<2.0		2.0	ng/L		07/03/26 13:40	07/06/26 11:00	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		07/03/26 13:40	07/06/26 11:00	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		07/03/26 13:40	07/06/26 11:00	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		07/03/26 13:40	07/06/26 11:00	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		07/03/26 13:40	07/06/26 11:00	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		07/03/26 13:40	07/06/26 11:00	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	101		50 - 200	07/03/26 13:40	07/06/26 11:00	1
13C6 PFDA	103		50 - 200	07/03/26 13:40	07/06/26 11:00	1
13C5 PFHxA	104		50 - 200	07/03/26 13:40	07/06/26 11:00	1
13C4 PFHpA	109		50 - 200	07/03/26 13:40	07/06/26 11:00	1
13C8 PFOA	110		50 - 200	07/03/26 13:40	07/06/26 11:00	1
13C9 PFNA	109		50 - 200	07/03/26 13:40	07/06/26 11:00	1
13C7 PFUnA	112		50 - 200	07/03/26 13:40	07/06/26 11:00	1
13C2 PFDoA	106		50 - 200	07/03/26 13:40	07/06/26 11:00	1
13C4 PFBA	112		50 - 200	07/03/26 13:40	07/06/26 11:00	1
13C5 PFPeA	129		50 - 200	07/03/26 13:40	07/06/26 11:00	1
13C3 PFBS	112		50 - 200	07/03/26 13:40	07/06/26 11:00	1
13C3 PFHxS	110		50 - 200	07/03/26 13:40	07/06/26 11:00	1
13C8 PFOS	112		50 - 200	07/03/26 13:40	07/06/26 11:00	1
13C2-4:2-FTS	134		50 - 200	07/03/26 13:40	07/06/26 11:00	1
13C2-6:2-FTS	133		50 - 200	07/03/26 13:40	07/06/26 11:00	1
13C2-8:2-FTS	112		50 - 200	07/03/26 13:40	07/06/26 11:00	1

Method: EPA 537.1 V2 - EPA 537.1 Ver. 2.0 March 2020

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		07/06/26 13:00	07/07/26 08:13	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		07/06/26 13:00	07/07/26 08:13	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		07/06/26 13:00	07/07/26 08:13	1

Eurofins Pomona

Client Sample Results

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

Job ID: 380-222668-1
SDG: Site H1 PFAS 533/537.1

Client Sample ID: BWS2253-H1-FB

Lab Sample ID: 380-222668-2

Date Collected: 06/30/26 11:30

Matrix: Water

Date Received: 07/02/26 10:15

Method: EPA 537.1 V2 - EPA 537.1 Ver. 2.0 March 2020 (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		07/06/26 13:00	07/07/26 08:13	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		07/06/26 13:00	07/07/26 08:13	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		07/06/26 13:00	07/07/26 08:13	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		07/06/26 13:00	07/07/26 08:13	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		07/06/26 13:00	07/07/26 08:13	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		07/06/26 13:00	07/07/26 08:13	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		07/06/26 13:00	07/07/26 08:13	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		07/06/26 13:00	07/07/26 08:13	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		07/06/26 13:00	07/07/26 08:13	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		07/06/26 13:00	07/07/26 08:13	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		07/06/26 13:00	07/07/26 08:13	1
Perfluorotridecanoic acid (PFTTrDA)	<2.0		2.0	ng/L		07/06/26 13:00	07/07/26 08:13	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		07/06/26 13:00	07/07/26 08:13	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		07/06/26 13:00	07/07/26 08:13	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		07/06/26 13:00	07/07/26 08:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	104		70 - 130			07/06/26 13:00	07/07/26 08:13	1
13C2 PFHxA	108		70 - 130			07/06/26 13:00	07/07/26 08:13	1
13C2 PFDA	103		70 - 130			07/06/26 13:00	07/07/26 08:13	1
13C3-GenX	99		70 - 130			07/06/26 13:00	07/07/26 08:13	1

Action Limit Summary

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

Job ID: 380-222668-1
SDG: Site H1 PFAS 533/537.1

Client Sample ID: BWS2253-H1-AQ

Lab Sample ID: 380-222668-1

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	EPA 537.1 V2	Total/NA
Perfluorooctanesulfonic acid (PFOS)	<2.0		ng/L	4	2.0	EPA 537.1 V2	Total/NA
Perfluorooctanoic acid (PFOA)	<2.0		ng/L	4	2.0	EPA 537.1 V2	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	<2.0		ng/L	10	2.0	EPA 537.1 V2	Total/NA
Perfluorononanoic acid (PFNA)	<2.0		ng/L	10	2.0	EPA 537.1 V2	Total/NA

Client Sample ID: BWS2253-H1-FB

Lab Sample ID: 380-222668-2

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	EPA 537.1 V2	Total/NA
Perfluorooctanesulfonic acid (PFOS)	<2.0		ng/L	4	2.0	EPA 537.1 V2	Total/NA
Perfluorooctanoic acid (PFOA)	<2.0		ng/L	4	2.0	EPA 537.1 V2	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	<2.0		ng/L	10	2.0	EPA 537.1 V2	Total/NA
Perfluorononanoic acid (PFNA)	<2.0		ng/L	10	2.0	EPA 537.1 V2	Total/NA

Surrogate Summary

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

Job ID: 380-222668-1
SDG: Site H1 PFAS 533/537.1

Method: EPA 537.1 V2 - EPA 537.1 Ver. 2.0 March 2020

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		d5NEFOS (70-130)	PFHxA (70-130)	PFDA (70-130)	GenX (70-130)
380-222523-E-1-A MS	Matrix Spike	112	110	110	105
380-222523-F-1-A MSD	Matrix Spike Duplicate	106	107	108	107
380-222668-1	BWS2253-H1-AQ	111	100	109	103
380-222668-2	BWS2253-H1-FB	104	108	103	99
380-222672-E-1-A MSD	Matrix Spike Duplicate	74	113	104	102
380-222672-F-1-A MS	Matrix Spike	75	108	103	100
LCS 380-237742/23-A	Lab Control Sample	112	107	109	98
LCS 380-237877/21-A	Lab Control Sample	100	107	106	101
MBL 380-237742/21-A	Method Blank	98	102	110	102
MBL 380-237877/19-A	Method Blank	104	106	105	102
MRL 380-237742/22-A	Lab Control Sample	104	103	106	97
MRL 380-237877/20-A	Lab Control Sample	106	109	104	105

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: 380-222668-1
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)
380-222495-B-1-A MS	Matrix Spike	82	93	93	89	89	91	99	97
380-222495-C-1-A MSD	Matrix Spike Duplicate	59	52	68	65	59	54	61	69
380-222668-1	BWS2253-H1-AQ	90	80	97	98	92	91	82	80
380-222668-2	BWS2253-H1-FB	101	103	104	109	110	109	112	106
LCS 380-237735/22-A	Lab Control Sample	105	113	112	110	110	111	114	113
MBL 380-237735/20-A	Method Blank	102	107	102	113	116	111	113	112
MRL 380-237735/21-A	Lab Control Sample	108	111	111	111	111	109	111	111

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)
380-222495-B-1-A MS	Matrix Spike	92	94	115	107	112	113	110	114
380-222495-C-1-A MSD	Matrix Spike Duplicate	67	69	109	106	110	115	116	121
380-222668-1	BWS2253-H1-AQ	109	122	114	110	109	136	127	112
380-222668-2	BWS2253-H1-FB	112	129	112	110	112	134	133	112
LCS 380-237735/22-A	Lab Control Sample	112	118	113	107	113	110	115	115
MBL 380-237735/20-A	Method Blank	110	113	114	108	111	113	117	113
MRL 380-237735/21-A	Lab Control Sample	115	118	111	108	113	120	115	121

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: 380-222668-1
SDG: Site H1 PFAS 533/537.1

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

Lab Sample ID: MBL 380-237735/20-A
Matrix: Water
Analysis Batch: 237820

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 237735

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<0.29		2.0	ng/L		07/03/26 13:40	07/06/26 08:08	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<0.30		2.0	ng/L		07/03/26 13:40	07/06/26 08:08	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.59		2.0	ng/L		07/03/26 13:40	07/06/26 08:08	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<0.98		2.0	ng/L		07/03/26 13:40	07/06/26 08:08	1
Perfluorobutanesulfonic acid (PFBS)	<0.36		2.0	ng/L		07/03/26 13:40	07/06/26 08:08	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	ng/L		07/03/26 13:40	07/06/26 08:08	1
Perfluorododecanoic acid (PFDoA)	<0.53		2.0	ng/L		07/03/26 13:40	07/06/26 08:08	1
Perfluoroheptanoic acid (PFHpA)	<0.38		2.0	ng/L		07/03/26 13:40	07/06/26 08:08	1
Perfluorohexanesulfonic acid (PFHxS)	<0.31		2.0	ng/L		07/03/26 13:40	07/06/26 08:08	1
Perfluorohexanoic acid (PFHxA)	<0.45		2.0	ng/L		07/03/26 13:40	07/06/26 08:08	1
Perfluorononanoic acid (PFNA)	<0.39		2.0	ng/L		07/03/26 13:40	07/06/26 08:08	1
Perfluorooctanesulfonic acid (PFOS)	<0.42		2.0	ng/L		07/03/26 13:40	07/06/26 08:08	1
Perfluorooctanoic acid (PFOA)	<0.37		2.0	ng/L		07/03/26 13:40	07/06/26 08:08	1
Perfluoroundecanoic acid (PFUnA)	<0.41		2.0	ng/L		07/03/26 13:40	07/06/26 08:08	1
Perfluorobutanoic acid (PFBA)	<0.68		2.0	ng/L		07/03/26 13:40	07/06/26 08:08	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.38		2.0	ng/L		07/03/26 13:40	07/06/26 08:08	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.36		2.0	ng/L		07/03/26 13:40	07/06/26 08:08	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.47		2.0	ng/L		07/03/26 13:40	07/06/26 08:08	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.46		2.0	ng/L		07/03/26 13:40	07/06/26 08:08	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<0.24		2.0	ng/L		07/03/26 13:40	07/06/26 08:08	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.45		2.0	ng/L		07/03/26 13:40	07/06/26 08:08	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.15		2.0	ng/L		07/03/26 13:40	07/06/26 08:08	1
Perfluoropentanoic acid (PFPeA)	<0.37		2.0	ng/L		07/03/26 13:40	07/06/26 08:08	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.35		2.0	ng/L		07/03/26 13:40	07/06/26 08:08	1
Perfluoropentanesulfonic acid (PFPeS)	<0.38		2.0	ng/L		07/03/26 13:40	07/06/26 08:08	1

Isotope Dilution	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	102		50 - 200	07/03/26 13:40	07/06/26 08:08	1
13C6 PFDA	107		50 - 200	07/03/26 13:40	07/06/26 08:08	1
13C5 PFHxA	102		50 - 200	07/03/26 13:40	07/06/26 08:08	1
13C4 PFHpA	113		50 - 200	07/03/26 13:40	07/06/26 08:08	1
13C8 PFOA	116		50 - 200	07/03/26 13:40	07/06/26 08:08	1
13C9 PFNA	111		50 - 200	07/03/26 13:40	07/06/26 08:08	1
13C7 PFUnA	113		50 - 200	07/03/26 13:40	07/06/26 08:08	1
13C2 PFDoA	112		50 - 200	07/03/26 13:40	07/06/26 08:08	1
13C4 PFBA	110		50 - 200	07/03/26 13:40	07/06/26 08:08	1
13C5 PFPeA	113		50 - 200	07/03/26 13:40	07/06/26 08:08	1
13C3 PFBS	114		50 - 200	07/03/26 13:40	07/06/26 08:08	1
13C3 PFHxS	108		50 - 200	07/03/26 13:40	07/06/26 08:08	1

Eurofins Pomona

QC Sample Results

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

Job ID: 380-222668-1
SDG: Site H1 PFAS 533/537.1

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

Lab Sample ID: MBL 380-237735/20-A

Matrix: Water

Analysis Batch: 237820

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 237735

Isotope Dilution	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOS	111		50 - 200	07/03/26 13:40	07/06/26 08:08	1
13C2-4:2-FTS	113		50 - 200	07/03/26 13:40	07/06/26 08:08	1
13C2-6:2-FTS	117		50 - 200	07/03/26 13:40	07/06/26 08:08	1
13C2-8:2-FTS	113		50 - 200	07/03/26 13:40	07/06/26 08:08	1

Lab Sample ID: LCS 380-237735/22-A

Matrix: Water

Analysis Batch: 237820

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 237735

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	58.9	51.4		ng/L		87	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	58.9	51.7		ng/L		88	70 - 130
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	58.9	57.4		ng/L		97	70 - 130
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	58.9	53.3		ng/L		90	70 - 130
Perfluorobutanesulfonic acid (PFBS)	58.9	52.1		ng/L		88	70 - 130
Perfluorodecanoic acid (PFDA)	58.9	53.2		ng/L		90	70 - 130
Perfluorododecanoic acid (PFDoA)	58.9	55.4		ng/L		94	70 - 130
Perfluoroheptanoic acid (PFHpA)	58.9	53.5		ng/L		91	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	58.9	57.6		ng/L		98	70 - 130
Perfluorohexanoic acid (PFHxA)	58.9	53.7		ng/L		91	70 - 130
Perfluorononanoic acid (PFNA)	58.9	54.9		ng/L		93	70 - 130
Perfluorooctanesulfonic acid (PFOS)	58.9	53.6		ng/L		91	70 - 130
Perfluorooctanoic acid (PFOA)	58.9	54.3		ng/L		92	70 - 130
Perfluoroundecanoic acid (PFUnA)	58.9	55.0		ng/L		93	70 - 130
Perfluorobutanoic acid (PFBA)	58.9	53.3		ng/L		90	70 - 130
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	58.9	54.6		ng/L		93	70 - 130
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	58.9	51.7		ng/L		88	70 - 130
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	58.9	49.4		ng/L		84	70 - 130
Nonfluoro-3,6-dioxahexanoic acid (NFDHA)	58.9	45.7		ng/L		78	70 - 130
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	58.9	51.5		ng/L		87	70 - 130
Perfluoro-3-methoxypropanoic acid (PFMPA)	58.9	50.9		ng/L		86	70 - 130
Perfluoro-4-methoxybutanoic acid (PFMBA)	58.9	49.8		ng/L		84	70 - 130
Perfluoropentanoic acid (PFPeA)	58.9	51.7		ng/L		88	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	58.9	53.7		ng/L		91	70 - 130

Eurofins Pomona

QC Sample Results

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

Job ID: 380-222668-1
SDG: Site H1 PFAS 533/537.1

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

Lab Sample ID: LCS 380-237735/22-A

Matrix: Water

Analysis Batch: 237820

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 237735

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoropentanesulfonic acid (PFPeS)	58.9	57.8		ng/L		98	70 - 130
		LCS	LCS				
		%Recovery	Qualifier	Limits			
Isotope Dilution							
13C3 HFPO-DA	105			50 - 200			
13C6 PFDA	113			50 - 200			
13C5 PFHxA	112			50 - 200			
13C4 PFHpA	110			50 - 200			
13C8 PFOA	110			50 - 200			
13C9 PFNA	111			50 - 200			
13C7 PFUnA	114			50 - 200			
13C2 PFDoA	113			50 - 200			
13C4 PFBA	112			50 - 200			
13C5 PFPeA	118			50 - 200			
13C3 PFBS	113			50 - 200			
13C3 PFHxS	107			50 - 200			
13C8 PFOS	113			50 - 200			
13C2-4:2-FTS	110			50 - 200			
13C2-6:2-FTS	115			50 - 200			
13C2-8:2-FTS	115			50 - 200			

Lab Sample ID: MRL 380-237735/21-A

Matrix: Water

Analysis Batch: 237820

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 237735

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	1.97	1.70	J	ng/L		86	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	1.97	1.74	J	ng/L		89	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.97	1.88	J	ng/L		96	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	1.97	1.62	J	ng/L		83	50 - 150
Perfluorobutanesulfonic acid (PFBS)	1.97	1.77	J	ng/L		90	50 - 150
Perfluorodecanoic acid (PFDA)	1.97	1.83	J	ng/L		93	50 - 150
Perfluorododecanoic acid (PFDoA)	1.97	1.81	J	ng/L		92	50 - 150
Perfluoroheptanoic acid (PFHpA)	1.97	1.96	J	ng/L		100	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	1.97	1.95	J	ng/L		99	50 - 150
Perfluorohexanoic acid (PFHxA)	1.97	1.76	J	ng/L		90	50 - 150
Perfluorononanoic acid (PFNA)	1.97	1.87	J	ng/L		95	50 - 150
Perfluorooctanesulfonic acid (PFOS)	1.97	1.90	J	ng/L		97	50 - 150
Perfluorooctanoic acid (PFOA)	1.97	1.90	J	ng/L		96	50 - 150
Perfluoroundecanoic acid (PFUnA)	1.97	1.92	J	ng/L		98	50 - 150
Perfluorobutanoic acid (PFBA)	1.97	2.01	J	ng/L		102	50 - 150

Eurofins Pomona

QC Sample Results

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

Job ID: 380-222668-1
SDG: Site H1 PFAS 533/537.1

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

Lab Sample ID: MRL 380-237735/21-A

Matrix: Water

Analysis Batch: 237820

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 237735

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	1.97	1.87	J	ng/L		95	50 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	1.97	1.79	J	ng/L		91	50 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	1.97	2.02	J	ng/L		102	50 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	1.97	1.85	J	ng/L		94	50 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	1.97	1.72	J	ng/L		88	50 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	1.97	1.73	J	ng/L		88	50 - 150
Perfluoro-4-methoxybutanoic acid (PFMBA)	1.97	1.70	J	ng/L		86	50 - 150
Perfluoropentanoic acid (PFPeA)	1.97	1.81	J	ng/L		92	50 - 150
Perfluoroheptanesulfonic acid (PFHpS)	1.97	1.87	J	ng/L		95	50 - 150
Perfluoropentanesulfonic acid (PFPeS)	1.97	1.95	J	ng/L		99	50 - 150

Isotope Dilution	MRL %Recovery	MRL Qualifier	MRL Limits
13C3 HFPO-DA	108		50 - 200
13C6 PFDA	111		50 - 200
13C5 PFHxA	111		50 - 200
13C4 PFHpA	111		50 - 200
13C8 PFOA	111		50 - 200
13C9 PFNA	109		50 - 200
13C7 PFUnA	111		50 - 200
13C2 PFDoA	111		50 - 200
13C4 PFBA	115		50 - 200
13C5 PFPeA	118		50 - 200
13C3 PFBS	111		50 - 200
13C3 PFHxS	108		50 - 200
13C8 PFOS	113		50 - 200
13C2-4:2-FTS	120		50 - 200
13C2-6:2-FTS	115		50 - 200
13C2-8:2-FTS	121		50 - 200

Lab Sample ID: 380-222495-B-1-A MS

Matrix: Water

Analysis Batch: 237820

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 237735

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		118	99.6		ng/L		84	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		118	101		ng/L		85	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		118	108		ng/L		91	70 - 130

Eurofins Pomona

QC Sample Results

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

Job ID: 380-222668-1
SDG: Site H1 PFAS 533/537.1

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

Lab Sample ID: 380-222495-B-1-A MS

Matrix: Water

Analysis Batch: 237820

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 237735

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide	<2.0		118	106		ng/L		90	70 - 130
Dimer Acid (HFPO-DA/GenX)									
Perfluorobutanesulfonic acid (PFBS)	<2.0		118	99.0		ng/L		84	70 - 130
Perfluorodecanoic acid (PFDA)	<2.0		118	106		ng/L		90	70 - 130
Perfluorododecanoic acid (PFDoA)	<2.0		118	108		ng/L		91	70 - 130
Perfluoroheptanoic acid (PFHpA)	<2.0		118	105		ng/L		89	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	<2.0		118	108		ng/L		91	70 - 130
Perfluorohexanoic acid (PFHxA)	<2.0		118	104		ng/L		88	70 - 130
Perfluorononanoic acid (PFNA)	<2.0		118	106		ng/L		90	70 - 130
Perfluorooctanesulfonic acid (PFOS)	<2.0		118	105		ng/L		89	70 - 130
Perfluorooctanoic acid (PFOA)	<2.0		118	107		ng/L		90	70 - 130
Perfluoroundecanoic acid (PFUnA)	<2.0		118	110		ng/L		93	70 - 130
Perfluorobutanoic acid (PFBA)	7.6		118	112		ng/L		88	70 - 130
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		118	106		ng/L		90	70 - 130
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		118	102		ng/L		87	70 - 130
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		118	107		ng/L		91	70 - 130
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		118	95.4		ng/L		81	70 - 130
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEA)	<2.0	F1 F2	118	128		ng/L		109	70 - 130
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		118	99.9		ng/L		85	70 - 130
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		118	100		ng/L		85	70 - 130
Perfluoropentanoic acid (PFPeA)	<2.0		118	104		ng/L		87	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		118	104		ng/L		88	70 - 130
Perfluoropentanesulfonic acid (PFPeS)	<2.0		118	109		ng/L		92	70 - 130

Isotope Dilution	MS %Recovery	MS Qualifier	MS Limits
13C3 HFPO-DA	82		50 - 200
13C6 PFDA	93		50 - 200
13C5 PFHxA	93		50 - 200
13C4 PFHpA	89		50 - 200
13C8 PFOA	89		50 - 200
13C9 PFNA	91		50 - 200
13C7 PFUnA	99		50 - 200
13C2 PFDoA	97		50 - 200
13C4 PFBA	92		50 - 200
13C5 PFPeA	94		50 - 200
13C3 PFBS	115		50 - 200
13C3 PFHxS	107		50 - 200
13C8 PFOS	112		50 - 200

Eurofins Pomona

QC Sample Results

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

Job ID: 380-222668-1
SDG: Site H1 PFAS 533/537.1

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

Lab Sample ID: 380-222495-B-1-A MS

Matrix: Water

Analysis Batch: 237820

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 237735

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
13C2-4:2-FTS	113		50 - 200
13C2-6:2-FTS	110		50 - 200
13C2-8:2-FTS	114		50 - 200

Lab Sample ID: 380-222495-C-1-A MSD

Matrix: Water

Analysis Batch: 237820

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 237735

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		118	103		ng/L		87	70 - 130	3	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		118	102		ng/L		87	70 - 130	2	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		118	108		ng/L		92	70 - 130	1	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		118	105		ng/L		89	70 - 130	1	30
Perfluorobutanesulfonic acid (PFBS)	<2.0		118	105		ng/L		89	70 - 130	5	30
Perfluorodecanoic acid (PFDA)	<2.0		118	111		ng/L		94	70 - 130	4	30
Perfluorododecanoic acid (PFDoA)	<2.0		118	109		ng/L		93	70 - 130	2	30
Perfluoroheptanoic acid (PFHpA)	<2.0		118	108		ng/L		92	70 - 130	3	30
Perfluorohexanesulfonic acid (PFHxS)	<2.0		118	111		ng/L		94	70 - 130	3	30
Perfluorohexanoic acid (PFHxA)	<2.0		118	105		ng/L		89	70 - 130	1	30
Perfluorononanoic acid (PFNA)	<2.0		118	109		ng/L		92	70 - 130	3	30
Perfluorooctanesulfonic acid (PFOS)	<2.0		118	107		ng/L		91	70 - 130	2	30
Perfluorooctanoic acid (PFOA)	<2.0		118	110		ng/L		92	70 - 130	2	30
Perfluoroundecanoic acid (PFUnA)	<2.0		118	110		ng/L		93	70 - 130	0	30
Perfluorobutanoic acid (PFBA)	7.6		118	116		ng/L		92	70 - 130	4	30
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		118	106		ng/L		89	70 - 130	1	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		118	104		ng/L		88	70 - 130	2	30
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		118	106		ng/L		89	70 - 130	1	30
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		118	104		ng/L		88	70 - 130	8	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<2.0	F1 F2	118	192	E F1 F2	ng/L		162	70 - 130	40	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		118	99.2		ng/L		84	70 - 130	1	30
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		118	101		ng/L		86	70 - 130	1	30
Perfluoropentanoic acid (PFPeA)	<2.0		118	108		ng/L		91	70 - 130	4	30
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		118	109		ng/L		92	70 - 130	5	30
Perfluoropentanesulfonic acid (PFPeS)	<2.0		118	110		ng/L		93	70 - 130	0	30

Eurofins Pomona

QC Sample Results

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

Job ID: 380-222668-1
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	59		50 - 200
13C6 PFDA	52		50 - 200
13C5 PFHxA	68		50 - 200
13C4 PFHpA	65		50 - 200
13C8 PFOA	59		50 - 200
13C9 PFNA	54		50 - 200
13C7 PFUnA	61		50 - 200
13C2 PFDoA	69		50 - 200
13C4 PFBA	67		50 - 200
13C5 PFPeA	69		50 - 200
13C3 PFBS	109		50 - 200
13C3 PFHxS	106		50 - 200
13C8 PFOS	110		50 - 200
13C2-4:2-FTS	115		50 - 200
13C2-6:2-FTS	116		50 - 200
13C2-8:2-FTS	121		50 - 200

Method: EPA 537.1 V2 - EPA 537.1 Ver. 2.0 March 2020

Lab Sample ID: MBL 380-237742/21-A
Matrix: Water
Analysis Batch: 237821

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 237742

Analyte	MBL MBL		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<0.98		2.0	ng/L		07/03/26 14:09	07/06/26 08:20	1
Perfluorooctanesulfonic acid (PFOS)	<0.42		2.0	ng/L		07/03/26 14:09	07/06/26 08:20	1
Perfluoroundecanoic acid (PFUnA)	<0.41		2.0	ng/L		07/03/26 14:09	07/06/26 08:20	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.57		2.0	ng/L		07/03/26 14:09	07/06/26 08:20	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.41		2.0	ng/L		07/03/26 14:09	07/06/26 08:20	1
Perfluorohexanoic acid (PFHxA)	<0.45		2.0	ng/L		07/03/26 14:09	07/06/26 08:20	1
Perfluorododecanoic acid (PFDoA)	<0.53		2.0	ng/L		07/03/26 14:09	07/06/26 08:20	1
Perfluorooctanoic acid (PFOA)	<0.37		2.0	ng/L		07/03/26 14:09	07/06/26 08:20	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	ng/L		07/03/26 14:09	07/06/26 08:20	1
Perfluorohexanesulfonic acid (PFHxS)	<0.31		2.0	ng/L		07/03/26 14:09	07/06/26 08:20	1
Perfluorobutanesulfonic acid (PFBS)	<0.36		2.0	ng/L		07/03/26 14:09	07/06/26 08:20	1
Perfluoroheptanoic acid (PFHpA)	<0.38		2.0	ng/L		07/03/26 14:09	07/06/26 08:20	1
Perfluorononanoic acid (PFNA)	<0.39		2.0	ng/L		07/03/26 14:09	07/06/26 08:20	1
Perfluorotetradecanoic acid (PFTA)	<0.53		2.0	ng/L		07/03/26 14:09	07/06/26 08:20	1
Perfluorotridecanoic acid (PFTrDA)	<0.35		2.0	ng/L		07/03/26 14:09	07/06/26 08:20	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	<0.30		2.0	ng/L		07/03/26 14:09	07/06/26 08:20	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<0.29		2.0	ng/L		07/03/26 14:09	07/06/26 08:20	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.59		2.0	ng/L		07/03/26 14:09	07/06/26 08:20	1
Surrogate	MBL MBL		Limits			Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier						
d5-NEtFOSAA	98		70 - 130			07/03/26 14:09	07/06/26 08:20	1
13C2 PFHxA	102		70 - 130			07/03/26 14:09	07/06/26 08:20	1
13C2 PFDA	110		70 - 130			07/03/26 14:09	07/06/26 08:20	1

Eurofins Pomona

QC Sample Results

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

Job ID: 380-222668-1
SDG: Site H1 PFAS 533/537.1

Method: EPA 537.1 V2 - EPA 537.1 Ver. 2.0 March 2020 (Continued)

Lab Sample ID: MBL 380-237742/21-A

Matrix: Water

Analysis Batch: 237821

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 237742

Surrogate	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3-GenX	102		70 - 130	07/03/26 14:09	07/06/26 08:20	1

Lab Sample ID: LCS 380-237742/23-A

Matrix: Water

Analysis Batch: 237821

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 237742

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide	49.3	44.3		ng/L		90	70 - 130
Dimer Acid (HFPO-DA/GenX)							
Perfluorooctanesulfonic acid (PFOS)	49.3	48.9		ng/L		99	70 - 130
Perfluoroundecanoic acid (PFUnA)	49.3	50.6		ng/L		103	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	49.3	48.4		ng/L		98	70 - 130
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	49.3	48.4		ng/L		98	70 - 130
Perfluorohexanoic acid (PFHxA)	49.3	46.5		ng/L		94	70 - 130
Perfluorododecanoic acid (PFDoA)	49.3	50.1		ng/L		102	70 - 130
Perfluorooctanoic acid (PFOA)	49.3	51.2		ng/L		104	70 - 130
Perfluorodecanoic acid (PFDA)	49.3	48.0		ng/L		97	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	49.3	48.2		ng/L		98	70 - 130
Perfluorobutanesulfonic acid (PFBS)	49.3	49.4		ng/L		100	70 - 130
Perfluoroheptanoic acid (PFHpA)	49.3	44.7		ng/L		91	70 - 130
Perfluorononanoic acid (PFNA)	49.3	49.3		ng/L		100	70 - 130
Perfluorotetradecanoic acid (PFTA)	49.3	51.0		ng/L		103	70 - 130
Perfluorotridecanoic acid (PFTrDA)	49.3	50.9		ng/L		103	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	49.3	48.8		ng/L		99	70 - 130
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	49.3	47.6		ng/L		97	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	49.3	44.5		ng/L		90	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
d5-NEtFOSAA	112		70 - 130
13C2 PFHxA	107		70 - 130
13C2 PFDA	109		70 - 130
13C3-GenX	98		70 - 130

QC Sample Results

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

Job ID: 380-222668-1
SDG: Site H1 PFAS 533/537.1

Method: EPA 537.1 V2 - EPA 537.1 Ver. 2.0 March 2020 (Continued)

Lab Sample ID: MRL 380-237742/22-A

Matrix: Water

Analysis Batch: 237821

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 237742

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide	1.96	1.73	J	ng/L		88	50 - 150
Dimer Acid (HFPO-DA/GenX)							
Perfluorooctanesulfonic acid (PFOS)	1.96	1.99	J	ng/L		101	50 - 150
Perfluoroundecanoic acid (PFUnA)	1.96	1.94	J	ng/L		99	50 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	1.96	2.17	J	ng/L		110	50 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.96	2.04	J	ng/L		104	50 - 150
Perfluorohexanoic acid (PFHxA)	1.96	1.85	J	ng/L		94	50 - 150
Perfluorododecanoic acid (PFDoA)	1.96	2.07	J	ng/L		105	50 - 150
Perfluorooctanoic acid (PFOA)	1.96	1.93	J	ng/L		98	50 - 150
Perfluorodecanoic acid (PFDA)	1.96	1.97	J	ng/L		100	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	1.96	1.96	J	ng/L		100	50 - 150
Perfluorobutanesulfonic acid (PFBS)	1.96	1.87	J	ng/L		95	50 - 150
Perfluoroheptanoic acid (PFHpA)	1.96	1.83	J	ng/L		93	50 - 150
Perfluorononanoic acid (PFNA)	1.96	2.03	J	ng/L		103	50 - 150
Perfluorotetradecanoic acid (PFTA)	1.96	2.09	J	ng/L		107	50 - 150
Perfluorotridecanoic acid (PFTrDA)	1.96	2.15	J	ng/L		109	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	1.96	1.85	J	ng/L		94	50 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	1.96	1.92	J	ng/L		98	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.96	1.77	J	ng/L		90	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
d5-NEtFOSAA	104		70 - 130
13C2 PFHxA	103		70 - 130
13C2 PFDA	106		70 - 130
13C3-GenX	97		70 - 130

Lab Sample ID: 380-222523-E-1-A MS

Matrix: Water

Analysis Batch: 237821

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 237742

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide	<2.0		49.3	49.0		ng/L		99	70 - 130
Dimer Acid (HFPO-DA/GenX)									
Perfluorooctanesulfonic acid (PFOS)	<2.0		49.3	51.6		ng/L		101	70 - 130
Perfluoroundecanoic acid (PFUnA)	<2.0		49.3	52.2		ng/L		106	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		49.3	48.4		ng/L		98	70 - 130

Eurofins Pomona

QC Sample Results

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

Job ID: 380-222668-1
SDG: Site H1 PFAS 533/537.1

Method: EPA 537.1 V2 - EPA 537.1 Ver. 2.0 March 2020 (Continued)

Lab Sample ID: 380-222523-E-1-A MS

Matrix: Water

Analysis Batch: 237821

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 237742

	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
N-ethylperfluorooctanesulfonami doacetic acid (NEtFOSAA)	<2.0		49.3	49.1		ng/L		100	70 - 130		
Perfluorohexanoic acid (PFHxA)	2.6		49.3	53.4		ng/L		103	70 - 130		
Perfluorododecanoic acid (PFDoA)	<2.0		49.3	52.7		ng/L		107	70 - 130		
Perfluorooctanoic acid (PFOA)	<2.0		49.3	52.6		ng/L		103	70 - 130		
Perfluorodecanoic acid (PFDA)	<2.0		49.3	50.9		ng/L		103	70 - 130		
Perfluorohexanesulfonic acid (PFHxS)	<2.0		49.3	50.6		ng/L		100	70 - 130		
Perfluorobutanesulfonic acid (PFBS)	2.0		49.3	53.1		ng/L		104	70 - 130		
Perfluoroheptanoic acid (PFHpA)	<2.0		49.3	51.0		ng/L		101	70 - 130		
Perfluorononanoic acid (PFNA)	<2.0		49.3	51.8		ng/L		105	70 - 130		
Perfluorotetradecanoic acid (PFTA)	<2.0		49.3	50.9		ng/L		103	70 - 130		
Perfluorotridecanoic acid (PFTrDA)	<2.0		49.3	53.3		ng/L		108	70 - 130		
9-Chlorohexadecafluoro-3-oxan onane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		49.3	49.3		ng/L		100	70 - 130		
11-Chloroeicosafluoro-3-oxaund ecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		49.3	50.4		ng/L		102	70 - 130		
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		49.3	50.9		ng/L		103	70 - 130		
</											

Lab Sample ID: 380-222523-F-1-A MSD

Matrix: Water

Analysis Batch: 237821

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 237742

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		49.3	47.8		ng/L		97	70 - 130	3	30
Perfluorooctanesulfonic acid (PFOS)	<2.0		49.3	51.4		ng/L		101	70 - 130	1	30
Perfluoroundecanoic acid (PFUnA)	<2.0		49.3	48.3		ng/L		98	70 - 130	8	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		49.3	48.3		ng/L		98	70 - 130	0	30
N-ethylperfluorooctanesulfonamidoacetic acid (NETFOSAA)	<2.0		49.3	49.9		ng/L		101	70 - 130	2	30
Perfluorohexanoic acid (PFHxA)	2.6		49.3	51.5		ng/L		99	70 - 130	4	30
Perfluorododecanoic acid (PFDoA)	<2.0		49.3	47.7		ng/L		97	70 - 130	10	30
Perfluorooctanoic acid (PFOA)	<2.0		49.3	50.6		ng/L		99	70 - 130	4	30
Perfluorodecanoic acid (PFDA)	<2.0		49.3	48.9		ng/L		99	70 - 130	4	30

Eurofins Pomona

QC Sample Results

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

Job ID: 380-222668-1
SDG: Site H1 PFAS 533/537.1

Method: EPA 537.1 V2 - EPA 537.1 Ver. 2.0 March 2020 (Continued)

Lab Sample ID: 380-222523-F-1-A MSD

Matrix: Water

Analysis Batch: 237821

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 237742

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorohexanesulfonic acid (PFHxS)	<2.0		49.3	51.4		ng/L		102	70 - 130	2	30
Perfluorobutanesulfonic acid (PFBS)	2.0		49.3	51.6		ng/L		101	70 - 130	3	30
Perfluoroheptanoic acid (PFHpA)	<2.0		49.3	48.8		ng/L		97	70 - 130	4	30
Perfluorononanoic acid (PFNA)	<2.0		49.3	52.8		ng/L		107	70 - 130	2	30
Perfluorotetradecanoic acid (PFTA)	<2.0		49.3	51.9		ng/L		105	70 - 130	2	30
Perfluorotridecanoic acid (PFTrDA)	<2.0		49.3	51.4		ng/L		104	70 - 130	4	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9CI-PF3ONS)	<2.0		49.3	48.3		ng/L		98	70 - 130	2	30
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	<2.0		49.3	47.3		ng/L		96	70 - 130	6	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		49.3	48.9		ng/L		99	70 - 130	4	30
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
d5-NEtFOSAA	106		70 - 130								
13C2 PFHxA	107		70 - 130								
13C2 PFDA	108		70 - 130								
13C3-GenX	107		70 - 130								

Lab Sample ID: MBL 380-237877/19-A

Matrix: Water

Analysis Batch: 238054

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 237877

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<0.99		2.0	ng/L		07/06/26 13:00	07/07/26 06:19	1
Perfluorooctanesulfonic acid (PFOS)	<0.42		2.0	ng/L		07/06/26 13:00	07/07/26 06:19	1
Perfluoroundecanoic acid (PFUnA)	<0.41		2.0	ng/L		07/06/26 13:00	07/07/26 06:19	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.57		2.0	ng/L		07/06/26 13:00	07/07/26 06:19	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.41		2.0	ng/L		07/06/26 13:00	07/07/26 06:19	1
Perfluorohexanoic acid (PFHxA)	<0.45		2.0	ng/L		07/06/26 13:00	07/07/26 06:19	1
Perfluorododecanoic acid (PFDoA)	<0.53		2.0	ng/L		07/06/26 13:00	07/07/26 06:19	1
Perfluorooctanoic acid (PFOA)	<0.37		2.0	ng/L		07/06/26 13:00	07/07/26 06:19	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	ng/L		07/06/26 13:00	07/07/26 06:19	1
Perfluorohexanesulfonic acid (PFHxS)	<0.32		2.0	ng/L		07/06/26 13:00	07/07/26 06:19	1
Perfluorobutanesulfonic acid (PFBS)	<0.36		2.0	ng/L		07/06/26 13:00	07/07/26 06:19	1
Perfluoroheptanoic acid (PFHpA)	<0.38		2.0	ng/L		07/06/26 13:00	07/07/26 06:19	1
Perfluorononanoic acid (PFNA)	<0.39		2.0	ng/L		07/06/26 13:00	07/07/26 06:19	1
Perfluorotetradecanoic acid (PFTA)	<0.53		2.0	ng/L		07/06/26 13:00	07/07/26 06:19	1
Perfluorotridecanoic acid (PFTrDA)	<0.36		2.0	ng/L		07/06/26 13:00	07/07/26 06:19	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9CI-PF3ONS)	<0.30		2.0	ng/L		07/06/26 13:00	07/07/26 06:19	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	<0.29		2.0	ng/L		07/06/26 13:00	07/07/26 06:19	1

Eurofins Pomona

QC Sample Results

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

Job ID: 380-222668-1
SDG: Site H1 PFAS 533/537.1

Method: EPA 537.1 V2 - EPA 537.1 Ver. 2.0 March 2020 (Continued)

Lab Sample ID: MBL 380-237877/19-A

Matrix: Water

Analysis Batch: 238054

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 237877

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.59		2.0	ng/L		07/06/26 13:00	07/07/26 06:19	1
Surrogate	%Recovery	MBL Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	104		70 - 130			07/06/26 13:00	07/07/26 06:19	1
13C2 PFHxA	106		70 - 130			07/06/26 13:00	07/07/26 06:19	1
13C2 PFDA	105		70 - 130			07/06/26 13:00	07/07/26 06:19	1
13C3-GenX	102		70 - 130			07/06/26 13:00	07/07/26 06:19	1

Lab Sample ID: LCS 380-237877/21-A

Matrix: Water

Analysis Batch: 238054

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 237877

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide	49.3	46.2		ng/L		94	70 - 130
Dimer Acid (HFPO-DA/GenX)							
Perfluorooctanesulfonic acid (PFOS)	49.3	49.5		ng/L		100	70 - 130
Perfluoroundecanoic acid (PFUnA)	49.3	52.4		ng/L		106	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	49.3	48.3		ng/L		98	70 - 130
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	49.3	45.7		ng/L		93	70 - 130
Perfluorohexanoic acid (PFHxA)	49.3	51.4		ng/L		104	70 - 130
Perfluorododecanoic acid (PFDoA)	49.3	54.0		ng/L		110	70 - 130
Perfluorooctanoic acid (PFOA)	49.3	47.7		ng/L		97	70 - 130
Perfluorodecanoic acid (PFDA)	49.3	47.4		ng/L		96	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	49.3	51.1		ng/L		104	70 - 130
Perfluorobutanesulfonic acid (PFBS)	49.3	52.4		ng/L		106	70 - 130
Perfluoroheptanoic acid (PFHpA)	49.3	47.9		ng/L		97	70 - 130
Perfluorononanoic acid (PFNA)	49.3	50.5		ng/L		102	70 - 130
Perfluorotetradecanoic acid (PFTA)	49.3	47.5		ng/L		96	70 - 130
Perfluorotridecanoic acid (PFTTrDA)	49.3	55.1		ng/L		112	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	49.3	51.5		ng/L		104	70 - 130
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	49.3	50.7		ng/L		103	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	49.3	47.8		ng/L		97	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
d5-NEtFOSAA	100		70 - 130				
13C2 PFHxA	107		70 - 130				
13C2 PFDA	106		70 - 130				

Eurofins Pomona

QC Sample Results

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

Job ID: 380-222668-1
SDG: Site H1 PFAS 533/537.1

Method: EPA 537.1 V2 - EPA 537.1 Ver. 2.0 March 2020 (Continued)

Lab Sample ID: LCS 380-237877/21-A

Matrix: Water

Analysis Batch: 238054

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 237877

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
13C3-GenX	101		70 - 130

Lab Sample ID: MRL 380-237877/20-A

Matrix: Water

Analysis Batch: 238054

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 237877

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide	1.96	1.84	J	ng/L		94	50 - 150
Dimer Acid (HFPO-DA/GenX)							
Perfluorooctanesulfonic acid (PFOS)	1.96	1.98	J	ng/L		101	50 - 150
Perfluoroundecanoic acid (PFUnA)	1.96	2.07	J	ng/L		106	50 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	1.96	2.11	J	ng/L		108	50 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.96	1.98	J	ng/L		101	50 - 150
Perfluorohexanoic acid (PFHxA)	1.96	2.11	J	ng/L		108	50 - 150
Perfluorododecanoic acid (PFDoA)	1.96	2.12	J	ng/L		108	50 - 150
Perfluorooctanoic acid (PFOA)	1.96	2.08	J	ng/L		106	50 - 150
Perfluorodecanoic acid (PFDA)	1.96	1.82	J	ng/L		93	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	1.96	2.01	J	ng/L		102	50 - 150
Perfluorobutanesulfonic acid (PFBS)	1.96	2.13	J	ng/L		108	50 - 150
Perfluoroheptanoic acid (PFHpA)	1.96	1.96	J	ng/L		100	50 - 150
Perfluorononanoic acid (PFNA)	1.96	2.15	J	ng/L		109	50 - 150
Perfluorotetradecanoic acid (PFTA)	1.96	1.94	J	ng/L		99	50 - 150
Perfluorotridecanoic acid (PFTrDA)	1.96	2.32	J	ng/L		118	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	1.96	1.90	J	ng/L		97	50 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	1.96	2.05	J	ng/L		104	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.96	1.92	J	ng/L		98	50 - 150

	MRL	MRL	
Surrogate	%Recovery	Qualifier	Limits
d5-NEtFOSAA	106		70 - 130
13C2 PFHxA	109		70 - 130
13C2 PFDA	104		70 - 130
13C3-GenX	105		70 - 130

QC Sample Results

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

Job ID: 380-222668-1
SDG: Site H1 PFAS 533/537.1

Method: EPA 537.1 V2 - EPA 537.1 Ver. 2.0 March 2020 (Continued)

Lab Sample ID: 380-222672-E-1-A MSD

Matrix: Water

Analysis Batch: 238054

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 237877

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Hexafluoropropylene Oxide	<2.0		24.7	25.0		ng/L		101	70 - 130	1	30
Dimer Acid (HFPO-DA/GenX)											
Perfluorooctanesulfonic acid (PFOS)	16		24.7	41.8		ng/L		104	70 - 130	2	30
Perfluoroundecanoic acid (PFUnA)	<2.0		24.7	19.4		ng/L		78	70 - 130	1	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		24.7	26.1		ng/L		106	70 - 130	2	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		24.7	18.8		ng/L		76	70 - 130	6	30
Perfluorohexanoic acid (PFHxA)	<2.0		24.7	26.3		ng/L		104	70 - 130	1	30
Perfluorododecanoic acid (PFDoA)	<2.0		24.7	26.6		ng/L		108	70 - 130	6	30
Perfluorooctanoic acid (PFOA)	4.2		24.7	29.9		ng/L		104	70 - 130	1	30
Perfluorodecanoic acid (PFDA)	<2.0		24.7	24.7		ng/L		100	70 - 130	5	30
Perfluorohexanesulfonic acid (PFHxS)	3.2		24.7	29.2		ng/L		106	70 - 130	4	30
Perfluorobutanesulfonic acid (PFBS)	2.1		24.7	33.7		ng/L		128	70 - 130	3	30
Perfluoroheptanoic acid (PFHpA)	<2.0		24.7	24.8		ng/L		100	70 - 130	6	30
Perfluorononanoic acid (PFNA)	<2.0		24.7	27.1		ng/L		107	70 - 130	2	30
Perfluorotetradecanoic acid (PFTA)	<2.0		24.7	17.6		ng/L		71	70 - 130	2	30
Perfluorotridecanoic acid (PFTrDA)	<2.0		24.7	22.6		ng/L		92	70 - 130	1	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		24.7	27.4		ng/L		111	70 - 130	1	30
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		24.7	18.5		ng/L		75	70 - 130	2	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		24.7	24.1		ng/L		98	70 - 130	2	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
d5-NEtFOSAA	74		70 - 130
13C2 PFHxA	113		70 - 130
13C2 PFDA	104		70 - 130
13C3-GenX	102		70 - 130

Lab Sample ID: 380-222672-F-1-A MS

Matrix: Water

Analysis Batch: 238054

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 237877

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide	<2.0		24.7	24.9		ng/L		101	70 - 130
Dimer Acid (HFPO-DA/GenX)									
Perfluorooctanesulfonic acid (PFOS)	16		24.7	42.6		ng/L		108	70 - 130
Perfluoroundecanoic acid (PFUnA)	<2.0		24.7	19.5		ng/L		79	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		24.7	25.6		ng/L		104	70 - 130

Eurofins Pomona

QC Sample Results

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

Job ID: 380-222668-1
SDG: Site H1 PFAS 533/537.1

Method: EPA 537.1 V2 - EPA 537.1 Ver. 2.0 March 2020 (Continued)

Lab Sample ID: 380-222672-F-1-A MS

Matrix: Water

Analysis Batch: 238054

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 237877

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		24.7	19.9		ng/L		81	70 - 130
Perfluorohexanoic acid (PFHxA)	<2.0		24.7	26.5		ng/L		105	70 - 130
Perfluorododecanoic acid (PFDoA)	<2.0		24.7	25.0		ng/L		101	70 - 130
Perfluorooctanoic acid (PFOA)	4.2		24.7	30.3		ng/L		106	70 - 130
Perfluorodecanoic acid (PFDA)	<2.0		24.7	25.9		ng/L		105	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	3.2		24.7	28.1		ng/L		101	70 - 130
Perfluorobutanesulfonic acid (PFBS)	2.1		24.7	32.9		ng/L		125	70 - 130
Perfluoroheptanoic acid (PFHpA)	<2.0		24.7	26.3		ng/L		107	70 - 130
Perfluorononanoic acid (PFNA)	<2.0		24.7	27.6		ng/L		110	70 - 130
Perfluorotetradecanoic acid (PFTA)	<2.0		24.7	17.9		ng/L		73	70 - 130
Perfluorotridecanoic acid (PFTrDA)	<2.0		24.7	22.4		ng/L		91	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		24.7	27.6		ng/L		112	70 - 130
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		24.7	18.1		ng/L		73	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		24.7	24.6		ng/L		100	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
d5-NEtFOSAA	75		70 - 130						
13C2 PFHxA	108		70 - 130						
13C2 PFDA	103		70 - 130						
13C3-GenX	100		70 - 130						

QC Association Summary

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

Job ID: 380-222668-1
SDG: Site H1 PFAS 533/537.1

LCMS

Prep Batch: 237735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-222668-1	BWS2253-H1-AQ	Total/NA	Water	533	
380-222668-2	BWS2253-H1-FB	Total/NA	Water	533	
MBL 380-237735/20-A	Method Blank	Total/NA	Water	533	
LCS 380-237735/22-A	Lab Control Sample	Total/NA	Water	533	
MRL 380-237735/21-A	Lab Control Sample	Total/NA	Water	533	
380-222495-B-1-A MS	Matrix Spike	Total/NA	Water	533	
380-222495-C-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	533	

Prep Batch: 237742

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-222668-1	BWS2253-H1-AQ	Total/NA	Water	537.1 DW	
MBL 380-237742/21-A	Method Blank	Total/NA	Water	537.1 DW	
LCS 380-237742/23-A	Lab Control Sample	Total/NA	Water	537.1 DW	
MRL 380-237742/22-A	Lab Control Sample	Total/NA	Water	537.1 DW	
380-222523-E-1-A MS	Matrix Spike	Total/NA	Water	537.1 DW	
380-222523-F-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	537.1 DW	

Analysis Batch: 237820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-222668-1	BWS2253-H1-AQ	Total/NA	Water	533	237735
380-222668-2	BWS2253-H1-FB	Total/NA	Water	533	237735
MBL 380-237735/20-A	Method Blank	Total/NA	Water	533	237735
LCS 380-237735/22-A	Lab Control Sample	Total/NA	Water	533	237735
MRL 380-237735/21-A	Lab Control Sample	Total/NA	Water	533	237735
380-222495-B-1-A MS	Matrix Spike	Total/NA	Water	533	237735
380-222495-C-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	533	237735

Analysis Batch: 237821

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-222668-1	BWS2253-H1-AQ	Total/NA	Water	EPA 537.1 V2	237742
MBL 380-237742/21-A	Method Blank	Total/NA	Water	EPA 537.1 V2	237742
LCS 380-237742/23-A	Lab Control Sample	Total/NA	Water	EPA 537.1 V2	237742
MRL 380-237742/22-A	Lab Control Sample	Total/NA	Water	EPA 537.1 V2	237742
380-222523-E-1-A MS	Matrix Spike	Total/NA	Water	EPA 537.1 V2	237742
380-222523-F-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	EPA 537.1 V2	237742

Prep Batch: 237877

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-222668-2	BWS2253-H1-FB	Total/NA	Water	537.1 DW	
MBL 380-237877/19-A	Method Blank	Total/NA	Water	537.1 DW	
LCS 380-237877/21-A	Lab Control Sample	Total/NA	Water	537.1 DW	
MRL 380-237877/20-A	Lab Control Sample	Total/NA	Water	537.1 DW	
380-222672-E-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	537.1 DW	
380-222672-F-1-A MS	Matrix Spike	Total/NA	Water	537.1 DW	

Analysis Batch: 238054

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-222668-2	BWS2253-H1-FB	Total/NA	Water	EPA 537.1 V2	237877
MBL 380-237877/19-A	Method Blank	Total/NA	Water	EPA 537.1 V2	237877
LCS 380-237877/21-A	Lab Control Sample	Total/NA	Water	EPA 537.1 V2	237877
MRL 380-237877/20-A	Lab Control Sample	Total/NA	Water	EPA 537.1 V2	237877

Eurofins Pomona

QC Association Summary

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

Job ID: 380-222668-1
SDG: Site H1 PFAS 533/537.1

LCMS (Continued)

Analysis Batch: 238054 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-222672-E-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	EPA 537.1 V2	237877
380-222672-F-1-A MS	Matrix Spike	Total/NA	Water	EPA 537.1 V2	237877

Lab Chronicle

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

Job ID: 380-222668-1
SDG: Site H1 PFAS 533/537.1

Client Sample ID: BWS2253-H1-AQ

Lab Sample ID: 380-222668-1

Date Collected: 06/30/26 11:30

Matrix: Water

Date Received: 07/02/26 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			237735	N8NE	EA POM	07/03/26 13:40
Total/NA	Analysis	533		1	237820	SZ9R	EA POM	07/06/26 10:51
Total/NA	Prep	537.1 DW			237742	E9PK	EA POM	07/03/26 14:09
Total/NA	Analysis	EPA 537.1 V2		1	237821	SZ9R	EA POM	07/06/26 11:51

Client Sample ID: BWS2253-H1-FB

Lab Sample ID: 380-222668-2

Date Collected: 06/30/26 11:30

Matrix: Water

Date Received: 07/02/26 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			237735	N8NE	EA POM	07/03/26 13:40
Total/NA	Analysis	533		1	237820	SZ9R	EA POM	07/06/26 11:00
Total/NA	Prep	537.1 DW			237877	LM3A	EA POM	07/06/26 13:00
Total/NA	Analysis	EPA 537.1 V2		1	238054	M7ML	EA POM	07/07/26 08:13

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: 380-222668-1
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.

Eurofins Pomona

Method Summary

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

Job ID: 380-222668-1
SDG: Site H1 PFAS 533/537.1

Method	Method Description	Protocol	Laboratory
533	Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water	EPA	EA POM
EPA 537.1 V2	EPA 537.1 Ver. 2.0 March 2020	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: 380-222668-1
SDG: Site H1 PFAS 533/537.1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
380-222668-1	BWS2253-H1-AQ	Water	06/30/26 11:30	07/02/26 10:15	Hawaii
380-222668-2	BWS2253-H1-FB	Water	06/30/26 11:30	07/02/26 10:15	Hawaii

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

Ver 05/06/2024

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-222668-1
SDG Number: Site H1 PFAS 533/537.1

Login Number: 222668

List Number: 1

Creator: Del Rosario, Michael

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).	True	
Samples do not require splitting or compositing.	True	
Container provided by EEA	True	