



ANALYTICAL REPORT

PREPARED FOR

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JOB DESCRIPTION

MCBH Kaneohe

JOB NUMBER

810-165111-1

Eurofins Eaton Analytical South Bend

Job Notes

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Authorization



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Definitions/Glossary

Client: NAVFAC Hawaii Environmental Svcs Lab
Project/Site: MCBH Kaneohe

Job ID: 810-165111-1

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: NAVFAC Hawaii Environmental Svcs Lab
Project: MCBH Kaneohe

Job ID: 810-165111-1

Job ID: 810-165111-1

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Job Narrative 810-165111-1

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 9/24/2025 9:30 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 1.6°C.

PFAS

Method 533: The pH of the following samples were adjusted to pH 7.5 in the laboratory: 25-05004, MCBH BLDG 1296, TP001 (810-165111-1) and (810-165111-B-1 DU)

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

Detection Summary

Client: NAVFAC Hawaii Environmental Svcs Lab
Project/Site: MCBH Kaneohe

Job ID: 810-165111-1

Client Sample ID: 25-05004, MCBH BLDG 1296, TP001
PWSID Number: HI0000356

Lab Sample ID: 810-165111-1

No Detections.

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

This Detection Summary does not include radiochemical test results.

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Client Sample Results

Client: NAVFAC Hawaii Environmental Svcs Lab
 Project/Site: MCBH Kaneohe

Job ID: 810-165111-1

Client Sample ID: 25-05004, MCBH BLDG 1296, TP001

Lab Sample ID: 810-165111-1

Date Collected: 09/22/25 07:05

Matrix: Drinking Water

Date Received: 09/24/25 09:30

PWSID Number: HI0000356

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<1.9		1.9	ng/L		09/25/25 08:25	09/25/25 21:24	1
Perfluoropentanoic acid (PFPeA)	<1.9		1.9	ng/L		09/25/25 08:25	09/25/25 21:24	1
Perfluorohexanoic acid (PFHxA)	<1.9		1.9	ng/L		09/25/25 08:25	09/25/25 21:24	1
Perfluoroheptanoic acid (PFHpA)	<1.9		1.9	ng/L		09/25/25 08:25	09/25/25 21:24	1
Perfluorooctanoic acid (PFOA)	<1.9		1.9	ng/L		09/25/25 08:25	09/25/25 21:24	1
Perfluorononanoic acid (PFNA)	<1.9		1.9	ng/L		09/25/25 08:25	09/25/25 21:24	1
Perfluorodecanoic acid (PFDA)	<1.9		1.9	ng/L		09/25/25 08:25	09/25/25 21:24	1
Perfluoroundecanoic acid (PFUnA)	<1.9		1.9	ng/L		09/25/25 08:25	09/25/25 21:24	1
Perfluorododecanoic acid (PFDoA)	<1.9		1.9	ng/L		09/25/25 08:25	09/25/25 21:24	1
Perfluorobutanesulfonic acid (PFBS)	<1.9		1.9	ng/L		09/25/25 08:25	09/25/25 21:24	1
Perfluoropentanesulfonic acid (PFPeS)	<1.9		1.9	ng/L		09/25/25 08:25	09/25/25 21:24	1
Perfluorohexanesulfonic acid (PFHxS)	<1.9		1.9	ng/L		09/25/25 08:25	09/25/25 21:24	1
Perfluoroheptanesulfonic acid (PFHpS)	<1.9		1.9	ng/L		09/25/25 08:25	09/25/25 21:24	1
Perfluorooctanesulfonic acid (PFOS)	<1.9		1.9	ng/L		09/25/25 08:25	09/25/25 21:24	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<1.9		1.9	ng/L		09/25/25 08:25	09/25/25 21:24	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<1.9		1.9	ng/L		09/25/25 08:25	09/25/25 21:24	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<1.9		1.9	ng/L		09/25/25 08:25	09/25/25 21:24	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<1.9		1.9	ng/L		09/25/25 08:25	09/25/25 21:24	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9		1.9	ng/L		09/25/25 08:25	09/25/25 21:24	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9		1.9	ng/L		09/25/25 08:25	09/25/25 21:24	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	<1.9		1.9	ng/L		09/25/25 08:25	09/25/25 21:24	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	<1.9		1.9	ng/L		09/25/25 08:25	09/25/25 21:24	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<1.9		1.9	ng/L		09/25/25 08:25	09/25/25 21:24	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<1.9		1.9	ng/L		09/25/25 08:25	09/25/25 21:24	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<1.9		1.9	ng/L		09/25/25 08:25	09/25/25 21:24	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	103		50 - 200	09/25/25 08:25	09/25/25 21:24	1
13C5 PFPeA	103		50 - 200	09/25/25 08:25	09/25/25 21:24	1
13C5 PFHxA	97		50 - 200	09/25/25 08:25	09/25/25 21:24	1
13C4 PFHpA	96		50 - 200	09/25/25 08:25	09/25/25 21:24	1
13C8 PFOA	101		50 - 200	09/25/25 08:25	09/25/25 21:24	1
13C9 PFNA	100		50 - 200	09/25/25 08:25	09/25/25 21:24	1
13C6 PFDA	97		50 - 200	09/25/25 08:25	09/25/25 21:24	1
13C7 PFUnA	97		50 - 200	09/25/25 08:25	09/25/25 21:24	1
13C2 PFDoA	96		50 - 200	09/25/25 08:25	09/25/25 21:24	1
13C3 HFPO-DA	94		50 - 200	09/25/25 08:25	09/25/25 21:24	1
13C3 PFBS	102		50 - 200	09/25/25 08:25	09/25/25 21:24	1
13C8 PFOS	102		50 - 200	09/25/25 08:25	09/25/25 21:24	1
13C2-4:2-FTS	99		50 - 200	09/25/25 08:25	09/25/25 21:24	1

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Client Sample Results

Client: NAVFAC Hawaii Environmental Svcs Lab
 Project/Site: MCBH Kaneohe

Job ID: 810-165111-1

Client Sample ID: 25-05004, MCBH BLDG 1296, TP001

Lab Sample ID: 810-165111-1

Date Collected: 09/22/25 07:05

Matrix: Drinking Water

Date Received: 09/24/25 09:30

PWSID Number: HI0000356

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2-6:2-FTS	119		50 - 200	09/25/25 08:25	09/25/25 21:24	1
13C2-8:2-FTS	100		50 - 200	09/25/25 08:25	09/25/25 21:24	1
13C3 PFHxS	100		50 - 200	09/25/25 08:25	09/25/25 21:24	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		09/25/25 10:36	09/26/25 06:29	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		09/25/25 10:36	09/26/25 06:29	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		09/25/25 10:36	09/26/25 06:29	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		09/25/25 10:36	09/26/25 06:29	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		09/25/25 10:36	09/26/25 06:29	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		09/25/25 10:36	09/26/25 06:29	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		09/25/25 10:36	09/26/25 06:29	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		09/25/25 10:36	09/26/25 06:29	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		09/25/25 10:36	09/26/25 06:29	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		09/25/25 10:36	09/26/25 06:29	1
Perfluorotetradecanoic acid (PFTeDA)	<2.0		2.0	ng/L		09/25/25 10:36	09/26/25 06:29	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		09/25/25 10:36	09/26/25 06:29	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		09/25/25 10:36	09/26/25 06:29	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		09/25/25 10:36	09/26/25 06:29	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<2.0		2.0	ng/L		09/25/25 10:36	09/26/25 06:29	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<2.0		2.0	ng/L		09/25/25 10:36	09/26/25 06:29	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<2.0		2.0	ng/L		09/25/25 10:36	09/26/25 06:29	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		09/25/25 10:36	09/26/25 06:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	95		70 - 130	09/25/25 10:36	09/26/25 06:29	1
13C2 PFDA	87		70 - 130	09/25/25 10:36	09/26/25 06:29	1
13C3 HFPO-DA	97		70 - 130	09/25/25 10:36	09/26/25 06:29	1
d5-NEtFOSAA	79		70 - 130	09/25/25 10:36	09/26/25 06:29	1

Surrogate Summary

Client: NAVFAC Hawaii Environmental Svcs Lab
 Project/Site: MCBH Kaneohe

Job ID: 810-165111-1

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

Matrix: Drinking Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		PFHxA (70-130)	PFDA (70-130)	HFPODA (70-130)	d5NEFOS (70-130)
810-165111-1	25-05004, MCBH BLDG 1296, TP00	95	87	97	79
810-165111-1 DU	25-05004, MCBH BLDG 1296, TP001	99	95	97	95
LCS 810-161840/3-A	Lab Control Sample	99	98	102	90
LLCS 810-161840/2-A	Lab Control Sample	97	93	89	99
MBL 810-161840/1-A	Method Blank	94	96	93	95

Surrogate Legend

- PFHxA = 13C2 PFHxA
- PFDA = 13C2 PFDA
- HFPODA = 13C3 HFPO-DA
- d5NEFOS = d5-NEtFOSAA



Isotope Dilution Summary

Client: NAVFAC Hawaii Environmental Svcs Lab
 Project/Site: MCBH Kaneohe

Job ID: 810-165111-1

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

Matrix: Drinking Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFBA (50-200)	PFPeA (50-200)	13C5PHA (50-200)	C4PFHA (50-200)	C8PFOA (50-200)	C9PFNA (50-200)	C6PFDA (50-200)	13C7PUA (50-200)
810-165111-1	25-05004, MCBH BLDG 1296, TP00	103	103	97	96	101	100	97	97
810-165111-1 DU	25-05004, MCBH BLDG 1296, TP001	103	103	99	101	106	101	102	100
LLCS 810-161798/2-A	Lab Control Sample	103	104	104	105	104	106	107	103
MBL 810-161798/1-A	Method Blank	98	100	96	99	101	104	103	101

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFD _o A (50-200)	HFPODA (50-200)	C3PFBS (50-200)	C8PFOS (50-200)	42FTS (50-200)	62FTS (50-200)	82FTS (50-200)	C3PFHS (50-200)
810-165111-1	25-05004, MCBH BLDG 1296, TP00	96	94	102	102	99	119	100	100
810-165111-1 DU	25-05004, MCBH BLDG 1296, TP001	99	98	104	101	98	116	103	101
LLCS 810-161798/2-A	Lab Control Sample	102	103	102	101	99	103	102	100
MBL 810-161798/1-A	Method Blank	103	97	101	99	94	103	99	99

Surrogate Legend

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

QC Sample Results

Client: NAVFAC Hawaii Environmental Svcs Lab
 Project/Site: MCBH Kaneohe

Job ID: 810-165111-1

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

Lab Sample ID: MBL 810-161798/1-A
Matrix: Drinking Water
Analysis Batch: 161905

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 161798

Analyte	MBL	MBL	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Perfluorobutanoic acid (PFBA)	<0.52		2.0	ng/L		09/25/25 08:25	09/25/25 20:22	1
Perfluoropentanoic acid (PFPeA)	<0.77		2.0	ng/L		09/25/25 08:25	09/25/25 20:22	1
Perfluorohexanoic acid (PFHxA)	<0.73		2.0	ng/L		09/25/25 08:25	09/25/25 20:22	1
Perfluoroheptanoic acid (PFHpA)	<0.72		2.0	ng/L		09/25/25 08:25	09/25/25 20:22	1
Perfluorooctanoic acid (PFOA)	<0.74		2.0	ng/L		09/25/25 08:25	09/25/25 20:22	1
Perfluorononanoic acid (PFNA)	<0.73		2.0	ng/L		09/25/25 08:25	09/25/25 20:22	1
Perfluorodecanoic acid (PFDA)	<0.66		2.0	ng/L		09/25/25 08:25	09/25/25 20:22	1
Perfluoroundecanoic acid (PFUnA)	<0.70		2.0	ng/L		09/25/25 08:25	09/25/25 20:22	1
Perfluorododecanoic acid (PFDoA)	<0.70		2.0	ng/L		09/25/25 08:25	09/25/25 20:22	1
Perfluorobutanesulfonic acid (PFBS)	<0.66		2.0	ng/L		09/25/25 08:25	09/25/25 20:22	1
Perfluoropentanesulfonic acid (PFPeS)	<0.69		2.0	ng/L		09/25/25 08:25	09/25/25 20:22	1
Perfluorohexanesulfonic acid (PFHxS)	<0.66		2.0	ng/L		09/25/25 08:25	09/25/25 20:22	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.60		2.0	ng/L		09/25/25 08:25	09/25/25 20:22	1
Perfluorooctanesulfonic acid (PFOS)	<0.69		2.0	ng/L		09/25/25 08:25	09/25/25 20:22	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<0.66		2.0	ng/L		09/25/25 08:25	09/25/25 20:22	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.67		2.0	ng/L		09/25/25 08:25	09/25/25 20:22	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.68		2.0	ng/L		09/25/25 08:25	09/25/25 20:22	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.57		2.0	ng/L		09/25/25 08:25	09/25/25 20:22	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.71		2.0	ng/L		09/25/25 08:25	09/25/25 20:22	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.60		2.0	ng/L		09/25/25 08:25	09/25/25 20:22	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	<0.97		2.0	ng/L		09/25/25 08:25	09/25/25 20:22	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	<0.82		2.0	ng/L		09/25/25 08:25	09/25/25 20:22	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.65		2.0	ng/L		09/25/25 08:25	09/25/25 20:22	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.81		2.0	ng/L		09/25/25 08:25	09/25/25 20:22	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.93		2.0	ng/L		09/25/25 08:25	09/25/25 20:22	1

Isotope Dilution	MBL	MBL	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C4 PFBA	98		50 - 200	09/25/25 08:25	09/25/25 20:22	1
13C5 PFPeA	100		50 - 200	09/25/25 08:25	09/25/25 20:22	1
13C5 PFHxA	96		50 - 200	09/25/25 08:25	09/25/25 20:22	1
13C4 PFHpA	99		50 - 200	09/25/25 08:25	09/25/25 20:22	1
13C8 PFOA	101		50 - 200	09/25/25 08:25	09/25/25 20:22	1
13C9 PFNA	104		50 - 200	09/25/25 08:25	09/25/25 20:22	1
13C6 PFDA	103		50 - 200	09/25/25 08:25	09/25/25 20:22	1
13C7 PFUnA	101		50 - 200	09/25/25 08:25	09/25/25 20:22	1
13C2 PFDoA	103		50 - 200	09/25/25 08:25	09/25/25 20:22	1
13C3 HFPO-DA	97		50 - 200	09/25/25 08:25	09/25/25 20:22	1
13C3 PFBS	101		50 - 200	09/25/25 08:25	09/25/25 20:22	1
13C8 PFOS	99		50 - 200	09/25/25 08:25	09/25/25 20:22	1

Eurofins Eaton Analytical South Bend

QC Sample Results

Client: NAVFAC Hawaii Environmental Svcs Lab
 Project/Site: MCBH Kaneohe

Job ID: 810-165111-1

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

Lab Sample ID: MBL 810-161798/1-A
Matrix: Drinking Water
Analysis Batch: 161905

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 161798

Isotope Dilution	MBL MBL		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C2-4:2-FTS	94		50 - 200	09/25/25 08:25	09/25/25 20:22	1
13C2-6:2-FTS	103		50 - 200	09/25/25 08:25	09/25/25 20:22	1
13C2-8:2-FTS	99		50 - 200	09/25/25 08:25	09/25/25 20:22	1
13C3 PFHxS	99		50 - 200	09/25/25 08:25	09/25/25 20:22	1

Lab Sample ID: LLCS 810-161798/2-A
Matrix: Drinking Water
Analysis Batch: 161905

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 161798

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoropentanoic acid (PFPeA)	2.00	1.60	J	ng/L		80	50 - 150
Perfluorohexanoic acid (PFHxA)	2.00	1.62	J	ng/L		81	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.00	1.68	J	ng/L		84	50 - 150
Perfluorooctanoic acid (PFOA)	2.00	1.68	J	ng/L		84	50 - 150
Perfluorononanoic acid (PFNA)	2.00	1.55	J	ng/L		78	50 - 150
Perfluorodecanoic acid (PFDA)	2.00	1.67	J	ng/L		83	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.00	1.67	J	ng/L		83	50 - 150
Perfluorododecanoic acid (PFDoA)	2.00	1.71	J	ng/L		85	50 - 150
Perfluorobutanesulfonic acid (PFBS)	1.78	1.43	J	ng/L		81	50 - 150
Perfluoropentanesulfonic acid (PFPeS)	1.88	1.35	J	ng/L		72	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	1.83	1.48	J	ng/L		81	50 - 150
Perfluoroheptanesulfonic acid (PFHpS)	1.91	1.44	J	ng/L		76	50 - 150
Perfluorooctanesulfonic acid (PFOS)	1.86	1.48	J	ng/L		80	50 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	1.78	1.50	J	ng/L		84	50 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	1.88	1.52	J	ng/L		81	50 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	1.90	1.65	J	ng/L		87	50 - 150
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	1.92	1.42	J	ng/L		74	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	2.00	1.57	J	ng/L		79	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.89	1.56	J	ng/L		82	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	1.87	1.48	J	ng/L		79	50 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	1.89	1.46	J	ng/L		77	50 - 150
Perfluoro-4-methoxybutanoic acid (PFMBA)	2.00	1.60	J	ng/L		80	50 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	2.00	1.54	J	ng/L		77	50 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	2.00	1.67	J	ng/L		84	50 - 150

QC Sample Results

Client: NAVFAC Hawaii Environmental Svcs Lab
 Project/Site: MCBH Kaneohe

Job ID: 810-165111-1

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

Isotope Dilution	LLCS		Limits
	%Recovery	Qualifier	
13C4 PFBA	103		50 - 200
13C5 PFPeA	104		50 - 200
13C5 PFHxA	104		50 - 200
13C4 PFHpA	105		50 - 200
13C8 PFOA	104		50 - 200
13C9 PFNA	106		50 - 200
13C6 PFDA	107		50 - 200
13C7 PFUnA	103		50 - 200
13C2 PFDoA	102		50 - 200
13C3 HFPO-DA	103		50 - 200
13C3 PFBS	102		50 - 200
13C8 PFOS	101		50 - 200
13C2-4:2-FTS	99		50 - 200
13C2-6:2-FTS	103		50 - 200
13C2-8:2-FTS	102		50 - 200
13C3 PFHxS	100		50 - 200

Lab Sample ID: 810-165111-1 DU

Matrix: Drinking Water

Analysis Batch: 161905

Client Sample ID: 25-05004, MCBH BLDG 1296, TP001

Prep Type: Total/NA

Prep Batch: 161798

Analyte	Sample Result	Sample Qualifier	DU	DU	Unit	D	RPD	RPD
			Result	Qualifier				Limit
Perfluorobutanoic acid (PFBA)	<1.9		<1.9		ng/L		NC	30
Perfluoropentanoic acid (PFPeA)	<1.9		<1.9		ng/L		NC	30
Perfluorohexanoic acid (PFHxA)	<1.9		<1.9		ng/L		NC	30
Perfluoroheptanoic acid (PFHpA)	<1.9		<1.9		ng/L		NC	30
Perfluorooctanoic acid (PFOA)	<1.9		<1.9		ng/L		NC	30
Perfluorononanoic acid (PFNA)	<1.9		<1.9		ng/L		NC	30
Perfluorodecanoic acid (PFDA)	<1.9		<1.9		ng/L		NC	30
Perfluoroundecanoic acid (PFUnA)	<1.9		<1.9		ng/L		NC	30
Perfluorododecanoic acid (PFDoA)	<1.9		<1.9		ng/L		NC	30
Perfluorobutanesulfonic acid (PFBS)	<1.9		<1.9		ng/L		NC	30
Perfluoropentanesulfonic acid (PFPeS)	<1.9		<1.9		ng/L		NC	30
Perfluorohexanesulfonic acid (PFHxS)	<1.9		<1.9		ng/L		NC	30
Perfluoroheptanesulfonic acid (PFHpS)	<1.9		<1.9		ng/L		NC	30
Perfluorooctanesulfonic acid (PFOS)	<1.9		<1.9		ng/L		NC	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<1.9		<1.9		ng/L		NC	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<1.9		<1.9		ng/L		NC	30
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<1.9		<1.9		ng/L		NC	30
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<1.9		<1.9		ng/L		NC	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9		<1.9		ng/L		NC	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9		<1.9		ng/L		NC	30

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QC Sample Results

Client: NAVFAC Hawaii Environmental Svcs Lab
 Project/Site: MCBH Kaneohe

Job ID: 810-165111-1

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

Lab Sample ID: 810-165111-1 DU

Matrix: Drinking Water

Analysis Batch: 161905

Client Sample ID: 25-05004, MCBH BLDG 1296, TP001

Prep Type: Total/NA

Prep Batch: 161798

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid	<1.9		<1.9		ng/L		NC	30
11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid	<1.9		<1.9		ng/L		NC	30
Perfluoro-4-methoxybutanoic acid (PFMBA)	<1.9		<1.9		ng/L		NC	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	<1.9		<1.9		ng/L		NC	30
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<1.9		<1.9		ng/L		NC	30

Isotope Dilution	%Recovery	DU Qualifier	DU Limits
13C4 PFBA	103		50 - 200
13C5 PFPeA	103		50 - 200
13C5 PFHxA	99		50 - 200
13C4 PFHpA	101		50 - 200
13C8 PFOA	106		50 - 200
13C9 PFNA	101		50 - 200
13C6 PFDA	102		50 - 200
13C7 PFUnA	100		50 - 200
13C2 PFDoA	99		50 - 200
13C3 HFPO-DA	98		50 - 200
13C3 PFBS	104		50 - 200
13C8 PFOS	101		50 - 200
13C2-4:2-FTS	98		50 - 200
13C2-6:2-FTS	116		50 - 200
13C2-8:2-FTS	103		50 - 200
13C3 PFHxS	101		50 - 200

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

Lab Sample ID: MBL 810-161840/1-A

Matrix: Drinking Water

Analysis Batch: 161951

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 161840

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<0.53		2.0	ng/L		09/25/25 10:36	09/26/25 05:36	1
Perfluoroundecanoic acid (PFUnA)	<0.63		2.0	ng/L		09/25/25 10:36	09/26/25 05:36	1
Perfluorohexanoic acid (PFHxA)	<0.63		2.0	ng/L		09/25/25 10:36	09/26/25 05:36	1
Perfluorododecanoic acid (PFDoA)	<0.63		2.0	ng/L		09/25/25 10:36	09/26/25 05:36	1
Perfluorooctanoic acid (PFOA)	<0.50		2.0	ng/L		09/25/25 10:36	09/26/25 05:36	1
Perfluorodecanoic acid (PFDA)	<0.60		2.0	ng/L		09/25/25 10:36	09/26/25 05:36	1
Perfluorohexanesulfonic acid (PFHxS)	<0.44		2.0	ng/L		09/25/25 10:36	09/26/25 05:36	1
Perfluorobutanesulfonic acid (PFBS)	<0.71		2.0	ng/L		09/25/25 10:36	09/26/25 05:36	1
Perfluoroheptanoic acid (PFHpA)	<0.52		2.0	ng/L		09/25/25 10:36	09/26/25 05:36	1
Perfluorononanoic acid (PFNA)	<0.48		2.0	ng/L		09/25/25 10:36	09/26/25 05:36	1
Perfluorotetradecanoic acid (PFTeDA)	<0.65		2.0	ng/L		09/25/25 10:36	09/26/25 05:36	1
Perfluorotridecanoic acid (PFTrDA)	<0.60		2.0	ng/L		09/25/25 10:36	09/26/25 05:36	1
N-methylperfluorooctanesulfonamideacetic acid (NMeFOSAA)	<0.62		2.0	ng/L		09/25/25 10:36	09/26/25 05:36	1

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QC Sample Results

Client: NAVFAC Hawaii Environmental Svcs Lab
 Project/Site: MCBH Kaneohe

Job ID: 810-165111-1

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

Lab Sample ID: MBL 810-161840/1-A

Matrix: Drinking Water

Analysis Batch: 161951

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 161840

Analyte	MBL	MBL	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.65		2.0	ng/L		09/25/25 10:36	09/26/25 05:36	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.62		2.0	ng/L		09/25/25 10:36	09/26/25 05:36	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<0.64		2.0	ng/L		09/25/25 10:36	09/26/25 05:36	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<0.64		2.0	ng/L		09/25/25 10:36	09/26/25 05:36	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.49		2.0	ng/L		09/25/25 10:36	09/26/25 05:36	1

Surrogate	MBL	MBL	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C2 PFHxA	94		70 - 130	09/25/25 10:36	09/26/25 05:36	1
13C2 PFDA	96		70 - 130	09/25/25 10:36	09/26/25 05:36	1
13C3 HFPO-DA	93		70 - 130	09/25/25 10:36	09/26/25 05:36	1
d5-NEtFOSAA	95		70 - 130	09/25/25 10:36	09/26/25 05:36	1

Lab Sample ID: LCS 810-161840/3-A

Matrix: Drinking Water

Analysis Batch: 161951

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 161840

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoroundecanoic acid (PFUnA)	200	180		ng/L		90	70 - 130
Perfluorohexanoic acid (PFHxA)	200	190		ng/L		95	70 - 130
Perfluorododecanoic acid (PFDoA)	200	173		ng/L		86	70 - 130
Perfluorooctanoic acid (PFOA)	200	189		ng/L		94	70 - 130
Perfluorodecanoic acid (PFDA)	200	183		ng/L		91	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	183	173		ng/L		95	70 - 130
Perfluorobutanesulfonic acid (PFBS)	177	158		ng/L		89	70 - 130
Perfluoroheptanoic acid (PFHpA)	200	185		ng/L		92	70 - 130
Perfluorononanoic acid (PFNA)	200	192		ng/L		96	70 - 130
Perfluorotetradecanoic acid (PFTeDA)	200	188		ng/L		94	70 - 130
Perfluorotridecanoic acid (PFTrDA)	200	171		ng/L		85	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	200	182		ng/L		91	70 - 130
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	200	182		ng/L		91	70 - 130
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	200	185		ng/L		92	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	187	180		ng/L		96	70 - 130
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	189	174		ng/L		92	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	189	184		ng/L		97	70 - 130

Eurofins Eaton Analytical South Bend

QC Sample Results

Client: NAVFAC Hawaii Environmental Svcs Lab
 Project/Site: MCBH Kaneohe

Job ID: 810-165111-1

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

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
13C2 PFHxA	99		70 - 130
13C2 PFDA	98		70 - 130
13C3 HFPO-DA	102		70 - 130
d5-NEtFOSAA	90		70 - 130

Lab Sample ID: LLCS 810-161840/2-A
Matrix: Drinking Water
Analysis Batch: 161951

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 161840

Analyte	Spike Added	LLCS LLCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Perfluorooctanesulfonic acid (PFOS)	1.85	1.77	J	ng/L		96	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.00	1.80	J	ng/L		90	50 - 150
Perfluorohexanoic acid (PFHxA)	2.00	1.86	J	ng/L		93	50 - 150
Perfluorododecanoic acid (PFDoA)	2.00	1.71	J	ng/L		85	50 - 150
Perfluorooctanoic acid (PFOA)	2.00	1.85	J	ng/L		92	50 - 150
Perfluorodecanoic acid (PFDA)	2.00	1.83	J	ng/L		92	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	1.83	1.73	J	ng/L		95	50 - 150
Perfluorobutanesulfonic acid (PFBS)	1.77	1.45	J	ng/L		82	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.00	1.92	J	ng/L		96	50 - 150
Perfluorononanoic acid (PFNA)	2.00	1.92	J	ng/L		96	50 - 150
Perfluorotetradecanoic acid (PFTeDA)	2.00	1.85	J	ng/L		93	50 - 150
Perfluorotridecanoic acid (PFTrDA)	2.00	1.70	J	ng/L		85	50 - 150
N-methylperfluorooctanesulfonamide acetic acid (NMeFOSAA)	2.00	1.86	J	ng/L		93	50 - 150
N-ethylperfluorooctanesulfonamide acetic acid (NEtFOSAA)	2.00	1.90	J	ng/L		95	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	2.00	1.76	J	ng/L		88	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	1.87	1.69	J	ng/L		90	50 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	1.89	1.63	J	ng/L		86	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.89	1.80	J	ng/L		95	50 - 150

Surrogate	LLCS LLCS		Limits
	%Recovery	Qualifier	
13C2 PFHxA	97		70 - 130
13C2 PFDA	93		70 - 130
13C3 HFPO-DA	89		70 - 130
d5-NEtFOSAA	99		70 - 130

Lab Sample ID: 810-165111-1 DU
Matrix: Drinking Water
Analysis Batch: 161951

Client Sample ID: 25-05004, MCBH BLDG 1296, TP001
Prep Type: Total/NA
Prep Batch: 161840

Analyte	Sample Result	Sample Qualifier	DU DU		Unit	D	RPD	RPD Limit
			Result	Qualifier				
Perfluorooctanesulfonic acid (PFOS)	<2.0		<2.0		ng/L		NC	30

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QC Sample Results

Client: NAVFAC Hawaii Environmental Svcs Lab
 Project/Site: MCBH Kaneohe

Job ID: 810-165111-1

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

Lab Sample ID: 810-165111-1 DU

Matrix: Drinking Water

Analysis Batch: 161951

Client Sample ID: 25-05004, MCBH BLDG 1296, TP001

Prep Type: Total/NA

Prep Batch: 161840

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Perfluoroundecanoic acid (PFUnA)	<2.0		<2.0		ng/L		NC	30
Perfluorohexanoic acid (PFHxA)	<2.0		<2.0		ng/L		NC	30
Perfluorododecanoic acid (PFDoA)	<2.0		<2.0		ng/L		NC	30
Perfluorooctanoic acid (PFOA)	<2.0		<2.0		ng/L		NC	30
Perfluorodecanoic acid (PFDA)	<2.0		<2.0		ng/L		NC	30
Perfluorohexanesulfonic acid (PFHxS)	<2.0		<2.0		ng/L		NC	30
Perfluorobutanesulfonic acid (PFBS)	<2.0		<2.0		ng/L		NC	30
Perfluoroheptanoic acid (PFHpA)	<2.0		<2.0		ng/L		NC	30
Perfluorononanoic acid (PFNA)	<2.0		<2.0		ng/L		NC	30
Perfluorotetradecanoic acid (PFTeDA)	<2.0		<2.0		ng/L		NC	30
Perfluorotridecanoic acid (PFTrDA)	<2.0		<2.0		ng/L		NC	30
N-methylperfluorooctanesulfonamide acetic acid (NMeFOSAA)	<2.0		<2.0		ng/L		NC	30
N-ethylperfluorooctanesulfonamide acetic acid (NEtFOSAA)	<2.0		<2.0		ng/L		NC	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<2.0		<2.0		ng/L		NC	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<2.0		<2.0		ng/L		NC	30
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<2.0		<2.0		ng/L		NC	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		<2.0		ng/L		NC	30

Surrogate	DU	DU	Limits
	%Recovery	Qualifier	
13C2 PFHxA	99		70 - 130
13C2 PFDA	95		70 - 130
13C3 HFPO-DA	97		70 - 130
d5-NEtFOSAA	95		70 - 130

QC Association Summary

Client: NAVFAC Hawaii Environmental Svcs Lab
 Project/Site: MCBH Kaneohe

Job ID: 810-165111-1

LCMS

Prep Batch: 161798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-165111-1	25-05004, MCBH BLDG 1296, TP001	Total/NA	Drinking Water	533	
MBL 810-161798/1-A	Method Blank	Total/NA	Drinking Water	533	
LLCS 810-161798/2-A	Lab Control Sample	Total/NA	Drinking Water	533	
810-165111-1 DU	25-05004, MCBH BLDG 1296, TP001	Total/NA	Drinking Water	533	

Prep Batch: 161840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-165111-1	25-05004, MCBH BLDG 1296, TP001	Total/NA	Drinking Water	537.1 DW	
MBL 810-161840/1-A	Method Blank	Total/NA	Drinking Water	537.1 DW	
LCS 810-161840/3-A	Lab Control Sample	Total/NA	Drinking Water	537.1 DW	
LLCS 810-161840/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1 DW	
810-165111-1 DU	25-05004, MCBH BLDG 1296, TP001	Total/NA	Drinking Water	537.1 DW	

Analysis Batch: 161905

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-165111-1	25-05004, MCBH BLDG 1296, TP001	Total/NA	Drinking Water	533	161798
MBL 810-161798/1-A	Method Blank	Total/NA	Drinking Water	533	161798
LLCS 810-161798/2-A	Lab Control Sample	Total/NA	Drinking Water	533	161798
810-165111-1 DU	25-05004, MCBH BLDG 1296, TP001	Total/NA	Drinking Water	533	161798

Analysis Batch: 161951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-165111-1	25-05004, MCBH BLDG 1296, TP001	Total/NA	Drinking Water	EPA 537.1 V2	161840
MBL 810-161840/1-A	Method Blank	Total/NA	Drinking Water	EPA 537.1 V2	161840
LCS 810-161840/3-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537.1 V2	161840
LLCS 810-161840/2-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537.1 V2	161840
810-165111-1 DU	25-05004, MCBH BLDG 1296, TP001	Total/NA	Drinking Water	EPA 537.1 V2	161840

Lab Chronicle

Client: NAVFAC Hawaii Environmental Svcs Lab
Project/Site: MCBH Kaneohe

Job ID: 810-165111-1

Client Sample ID: 25-05004, MCBH BLDG 1296, TP001

Lab Sample ID: 810-165111-1

Date Collected: 09/22/25 07:05

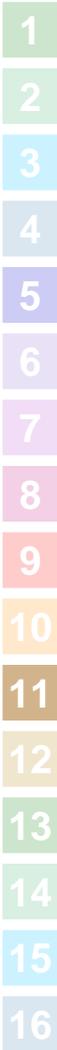
Matrix: Drinking Water

Date Received: 09/24/25 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			161798	MM	EA SB	09/25/25 08:25
Total/NA	Analysis	533		1	161905	MH	EA SB	09/25/25 21:24
Total/NA	Prep	537.1 DW			161840	MP	EA SB	09/25/25 10:36
Total/NA	Analysis	EPA 537.1 V2		1	161951	ZK	EA SB	09/26/25 06:29

Laboratory References:

EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777



Accreditation/Certification Summary

Client: NAVFAC Hawaii Environmental Svcs Lab
 Project/Site: MCBH Kaneohe

Job ID: 810-165111-1

Laboratory: Eurofins Eaton Analytical South Bend

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

Authority	Program	Identification Number	Expiration Date
A2LA	ISO/IEC 17025	5794.01	07-31-26
Hawaii	State	IN035	06-30-26

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
533	533	Drinking Water	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid
533	533	Drinking Water	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)
533	533	Drinking Water	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)
533	533	Drinking Water	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)
533	533	Drinking Water	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)
533	533	Drinking Water	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid
533	533	Drinking Water	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)
533	533	Drinking Water	Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)
533	533	Drinking Water	Perfluoro-3-methoxypropanoic acid (PFMPA)
533	533	Drinking Water	Perfluoro-4-methoxybutanoic acid (PFMBA)
533	533	Drinking Water	Perfluorobutanoic acid (PFBA)
533	533	Drinking Water	Perfluorodecanoic acid (PFDA)
533	533	Drinking Water	Perfluorododecanoic acid (PFDoA)
533	533	Drinking Water	Perfluoroheptanesulfonic acid (PFHpS)
533	533	Drinking Water	Perfluoroheptanoic acid (PFHpA)
533	533	Drinking Water	Perfluorohexanoic acid (PFHxA)
533	533	Drinking Water	Perfluoropentanesulfonic acid (PFPeS)
533	533	Drinking Water	Perfluoropentanoic acid (PFPeA)
533	533	Drinking Water	Perfluoroundecanoic acid (PFUnA)
EPA 537.1 V2	537.1 DW	Drinking Water	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid
EPA 537.1 V2	537.1 DW	Drinking Water	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)
EPA 537.1 V2	537.1 DW	Drinking Water	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid
EPA 537.1 V2	537.1 DW	Drinking Water	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)
EPA 537.1 V2	537.1 DW	Drinking Water	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)
EPA 537.1 V2	537.1 DW	Drinking Water	Perfluorodecanoic acid (PFDA)
EPA 537.1 V2	537.1 DW	Drinking Water	Perfluorododecanoic acid (PFDoA)
EPA 537.1 V2	537.1 DW	Drinking Water	Perfluoroheptanoic acid (PFHpA)
EPA 537.1 V2	537.1 DW	Drinking Water	Perfluorohexanoic acid (PFHxA)
EPA 537.1 V2	537.1 DW	Drinking Water	Perfluorotetradecanoic acid (PFTeDA)
EPA 537.1 V2	537.1 DW	Drinking Water	Perfluorotridecanoic acid (PFTrDA)
EPA 537.1 V2	537.1 DW	Drinking Water	Perfluoroundecanoic acid (PFUnA)

Method Summary

Client: NAVFAC Hawaii Environmental Svcs Lab
Project/Site: MCBH Kaneohe

Job ID: 810-165111-1

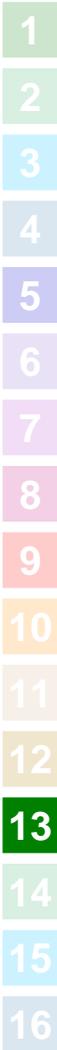
Method	Method Description	Protocol	Laboratory
533	Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water	EPA	EA SB
EPA 537.1 V2	EPA 537.1 Ver. 2.0 March 2020	EPA	EA SB
533	Extraction of Perfluorinated and Polyfluorinated Alkyl Acids	EPA	EA SB
537.1 DW	Extraction of Perfluorinated Alkyl Acids	EPA	EA SB

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777



Sample Summary

Client: NAVFAC Hawaii Environmental Svcs Lab
Project/Site: MCBH Kaneohe

Job ID: 810-165111-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	PWSID Number
810-165111-1	25-05004, MCBH BLDG 1296, TP001	Drinking Water	09/22/25 07:05	09/24/25 09:30	HI0000356

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Chain of Custody Record



Client Information 810-165111 COC

Company: NAVFAC Hawaii Environmental Svcs Lab

Address: PRJ411 Bldg 1423 Central Avenue

City: JBP HH

State Zip: HI, 96860

Phone: (808) 474-3704

Email: duane.l.moria.civ@us.navy.mil

Project Name: Source Testing

Site: MCBH Kaneohe

Sampler: Lab PM
Chlebowski, Traci
E-Mail: Traci.Chlebowski@et.eurofins.us.com
Traci.Chlebowski@et.eurofins.us.com

Carrier Tracking No(s):
State of Origin: Hawaii

COC No: 810-60181-7383.1
Page: Page 1 of 1
Job #:

Due Date Requested: H10000366

TAT Requested (days):

Compliance Project: Yes No

PO #: Drinking Water

WO #:

Project #: 810-00302

SSOW#:

Analysis Requested

Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)
X	537.1_DW_PREC - 537.1 PFC18
X	533 - 533 Perfluorinated/Alkyl Substances
X	537.1_DW_PREC - FRB 537.1
X	533 - FRB 533

Preservation Codes:	Total Number of containers	Special Instructions/Note:
A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:	5	Initial Temp: 1.4 Preceded Temp: 1.6 Blk
M - Hexane N - None O - AsNaO2 P - Na2O/S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - PH 4.5 Z - other (Specify) Y - Trizma Z - Ammonium Acetate	1 1 1	

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=overstool)	Preservation Code: (BT=Tran, AA=Ag)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Total Number of containers	Special Instructions/Note:
25-05004, MCBH BLDG 1296, TP001	9/22/25	0705	G	Drinking Water		X	537.1_DW_PREC - 537.1 PFC18	5	Initial Temp: 1.4 Preceded Temp: 1.6 Blk
25-05005, Field Blank				Field Blank		X	533 - 533 Perfluorinated/Alkyl Substances	1	
25-05006, Field Blank				Field Blank		X	537.1_DW_PREC - FRB 537.1	1	
				Field Blank		X	533 - FRB 533	1	

Possible Hazard Identification

Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

Deliverable Requested: I, II, III, IV, Other (specify)

Empty Kit Relinquished by: *Duane Morita*

Relinquished by: *Duane Morita*

Relinquished by:

Custody Seals Intact: Yes No

Date: 22 Sep 2025 1300

Date/Time: 22 Sep 2025 1300

Date/Time:

Date/Time:

Date/Time:

Received by: *Traci*

Received by: *Traci*

Received by:

Received by:

Received by:

Method of Shipment:

Date/Time: 09-24-2025 09:30

Date/Time:

Date/Time:

Date/Time:

Company: NAVFAC Hawaii

Company: NAVFAC Hawaii

Company:

Company:

Company:

Cooler Temperature: °C and Other Remarks:



NAVFAC HAWAII ENGINEERING COMMAND, HAWAII, PEARL HARBOR, HAWAII PHONE: (808) 474-3704, FAX: (808) 471-4534
 Navy Facilities Engineering Command, Hawaii, Pearl Harbor, Hawaii Phone: (808) 474-3704, FAX: (808) 471-4534

JOSE: MC3H1 DW
 Report To: Sean Smither
 MC3H1 Kaneohe
 scan.smither@usmc.mil
 Copy To: Jacob Bruhn
 MC3H1 Kaneohe
 jacob.bruhn@usmc.mil
 PH#: 257-2774
 Copy To: Patrick Crite
 MC3H1 Kaneohe
 patrick.crite@usmc.mil
 FAX#:

Sample ID	Sample Description	Material Code	Sampling		Container Vol	Type	Analysis Required	Preservative / Res. Ct (ppm)	pH	FOR LAB USE ONLY		Cond.
			Date	Time						Lab Number	F.Y.	
MC3H1 Kaneohe (Pool, Bldg 1296)	Chlorinated Finished Drinking Water	DW	9/22/05	0705	3X 250ml	Plastic	PL VS, IPA 533	0.41	N/A	25-05004	1-2	✓
Field Trip Blank		DW	9/22/05	0705	250ml	Plastic	PL VS, IPA 533		N/A	25-05005	1-2	✓
Field Trip Blank		DW	9/22/05	0705	250ml	Plastic	PL VS, IPA 533		N/A	25-05006	1-2	✓

Transportation Information
 Transported/Stored in: Cooler with ice
 Air bill/Carrier ID#: 61
 Cooler Temp: °C
 Return to customer
 Archive for 60 Days
 Contact before disposal
 Received with CoC
 Received with Custody Seals
 Seals Required
 Seals Intact
 Labels and CoC agree

Remarks: *John Birk*
 (Print names clearly)

Relinquished By: (Print clearly & Sign) *John Birk* Date: 9/22/05 Time: 9:53 AM
 Received By: (Print clearly & Sign) *Gary Moore* Date: 09/22/05 Time: 0953
0953



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Login Sample Receipt Checklist

Client: NAVFAC Hawaii Environmental Svcs Lab

Job Number: 810-165111-1

Login Number: 165111

List Source: Eurofins Eaton Analytical South Bend

List Number: 1

Creator: Moore, Gary

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Samples do not require splitting or compositing.	True	
Were samples preserved to correct pH upon receipt, if applicable?	True	
Container provided by EEA	True	

