

ANALYTICAL REPORT

PREPARED FOR

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JOB DESCRIPTION

RED-HILL
RUSH Weekly Red Hill

JOB NUMBER

380-65439-1

Eurofins Eaton Analytical Pomona

Job Notes

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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 Eaton Analytical, 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



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Definitions/Glossary

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-65439-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
^3+	Reporting Limit Check Standard is outside acceptance limits, high biased
B	Analyte was found in the associated method blank.
F1	MS and/or MSD recovery 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.

GC/MS Semi VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
N	Presumptive evidence of material.
T	Result is a tentatively identified compound (TIC) and an estimated value.

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.
α	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/Site: RED-HILL

Job ID: 380-65439-1

Job ID: 380-65439-1

Laboratory: Eurofins Eaton Analytical Pomona

Narrative

Job Narrative 380-65439-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 10/4/2023 10:40 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 6 coolers at receipt time were 1.0°C, 1.7°C, 1.9°C, 2.3°C, 2.5°C and 5.6°C

Receipt Exceptions

The received containers' labels from the following sites do not match the COC:

AIEA GULCH WELLS P2 sample time per COC: 1202
AIEA GULCH WELLS P2 sample time per label: 1134

AIEA WELLS P2 sample time per COC: 1134
AIEA WELLS P2 sample time per label: 1202

Per client, COC was incorrect, COC was updated with the correct sample time.

GC/MS Semi VOA

Method 525.2_PREC: The continuing calibration verification (CCV) associated with batch 380-58448 recovered above the upper control limit for Heptachlor epoxide (isomer B). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. MOANALUA WELLS (380-65439-1), AIEA GULCH WELLS PUMP 2 (380-65439-2), AIEA WELLS PUMPS 1&2 (260) P2 (380-65439-3), HALAWA WELLS UNITS 1 & 2 P1 (380-65439-4) and (CCVIS 380-58448/2)

Method 525.2_PREC: The method reporting limit check (MRL) for preparation batch 380-58918 and analytical batch 380-59135 recovered outside upper control limits for the following analyte: Di (2-ethylhexyl)phthalate. This analyte was biased high in the MRL and was not detected in the associated sample. There was insufficient sample to perform a re-extraction and/or re-analysis. Sample results are not acceptable for compliance reporting. Data excluded due to this QC failure. AIEA GULCH WELLS PUMP 2 (380-65439-2) and (MRL 380-58918/22-A)

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

PFAS

Method 537.1: The following samples were collected and preserved with a bad lot of Trizma that has a contamination for PFOA: MOANALUA WELLS (380-65439-1), AIEA GULCH WELLS PUMP 2 (380-65439-2), AIEA WELLS PUMPS 1&2 (260) P2 (380-65439-3), FB MOANALUA WELLS (380-65439-9), FB AIEA GULCH WELLS PUMP 2 (380-65439-10), FB AIEA WELLS PUMPS 1&2 (260) P2 (380-65439-11) and FB HALAWA WELLS UNITS 1 & 2 P1 (380-65439-12). Samples were not extracted/analyzed.

Method 537.1_DW_PREC: The laboratory control sample (LCS) recovered outside control limits for the following surrogate: 13C2 PFHxA. The analyte was biased high in the LCS. LCSD passed all QC requirements. No volume available for re-extraction and re-analysis for HALAWA WELLS UNITS 1 & 2 P1 (380-65439-4). 537.1 data excluded due to this QC failure, 533 data was reported as there were no noted QC issues.

Case Narrative

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-65439-1

Job ID: 380-65439-1 (Continued)

Laboratory: Eurofins Eaton Analytical Pomona (Continued)

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

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Detection Summary

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-65439-1

Client Sample ID: MOANALUA WELLS
PWSID Number: HI0000331

Lab Sample ID: 380-65439-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	2.2		2.0	ng/L	1		533	Total/NA

Client Sample ID: AIEA GULCH WELLS PUMP 2
PWSID Number: HI0000331

Lab Sample ID: 380-65439-2

No Detections.

Client Sample ID: AIEA WELLS PUMPS 1&2 (260) P2
PWSID Number: HI0000331

Lab Sample ID: 380-65439-3

No Detections.

Client Sample ID: HALAWA WELLS UNITS 1 & 2 P1
PWSID Number: HI0000331

Lab Sample ID: 380-65439-4

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanesulfonic acid (PFHxS)	2.5		2.0	ng/L	1		533	Total/NA
Perfluorohexanoic acid (PFHxA)	2.3		2.0	ng/L	1		533	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.4		2.0	ng/L	1		533	Total/NA
Perfluorooctanoic acid (PFOA)	2.2		2.0	ng/L	1		533	Total/NA
Perfluoropentanoic acid (PFPeA)	2.6		2.0	ng/L	1		533	Total/NA

Client Sample ID: FB MOANALUA WELLS
PWSID Number: HI0000331

Lab Sample ID: 380-65439-9

No Detections.

Client Sample ID: FB AIEA GULCH WELLS PUMP 2
PWSID Number: HI0000331

Lab Sample ID: 380-65439-10

No Detections.

Client Sample ID: FB AIEA WELLS PUMPS 1&2 (260) P2
PWSID Number: HI0000331

Lab Sample ID: 380-65439-11

No Detections.

Client Sample ID: FB HALAWA WELLS UNITS 1 & 2 P1
PWSID Number: HI0000331

Lab Sample ID: 380-65439-12

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Eaton Analytical Pomona

Client Sample Results

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-65439-1

Client Sample ID: MOANALUA WELLS

Lab Sample ID: 380-65439-1

Date Collected: 10/02/23 10:29

Matrix: Drinking Water

Date Received: 10/04/23 10:40

PWSID Number: HI0000331

Method: EPA 525.2 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 15:37	1
2,4'-DDD	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 15:37	1
2,4'-DDE	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 15:37	1
2,4'-DDT	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 15:37	1
2,4-Dinitrotoluene	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 15:37	1
2,6-Dinitrotoluene	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 15:37	1
2-Methylnaphthalene	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 15:37	1
4,4'-DDD	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 15:37	1
4,4'-DDE	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 15:37	1
4,4'-DDT	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 15:37	1
Acenaphthene	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 15:37	1
Acenaphthylene	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 15:37	1
Acetochlor	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 15:37	1
Alachlor	<0.050		0.050	ug/L		10/05/23 12:15	10/08/23 15:37	1
alpha-BHC	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 15:37	1
alpha-Chlordane	<0.050		0.050	ug/L		10/05/23 12:15	10/08/23 15:37	1
Anthracene	<0.020		0.020	ug/L		10/05/23 12:15	10/08/23 15:37	1
Atrazine	<0.050		0.050	ug/L		10/05/23 12:15	10/08/23 15:37	1
Benz(a)anthracene	<0.050		0.050	ug/L		10/05/23 12:15	10/08/23 15:37	1
Benzo[a]pyrene	<0.020		0.020	ug/L		10/05/23 12:15	10/08/23 15:37	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		10/05/23 12:15	10/08/23 15:37	1
Benzo[g,h,i]perylene	<0.050		0.050	ug/L		10/05/23 12:15	10/08/23 15:37	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		10/05/23 12:15	10/08/23 15:37	1
beta-BHC	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 15:37	1
Bis(2-ethylhexyl) phthalate	<0.59	^3+	0.59	ug/L		10/11/23 14:31	10/12/23 18:03	1
Bromacil	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 15:37	1
Butachlor	<0.050		0.050	ug/L		10/05/23 12:15	10/08/23 15:37	1
Butylbenzylphthalate	<0.50		0.50	ug/L		10/05/23 12:15	10/08/23 15:37	1
Chlorobenzilate	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 15:37	1
Chloroneb	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 15:37	1
Chlorothalonil (Draconil, Bravo)	<0.099	^3+	0.099	ug/L		10/05/23 12:15	10/08/23 15:37	1
Chlorpyrifos	<0.050		0.050	ug/L		10/05/23 12:15	10/08/23 15:37	1
Chrysene	<0.020		0.020	ug/L		10/05/23 12:15	10/08/23 15:37	1
delta-BHC	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 15:37	1
Di(2-ethylhexyl)adipate	<0.60		0.60	ug/L		10/05/23 12:15	10/08/23 15:37	1
Dibenz(a,h)anthracene	<0.050		0.050	ug/L		10/05/23 12:15	10/08/23 15:37	1
Diclorvos (DDVP)	<0.050		0.050	ug/L		10/05/23 12:15	10/08/23 15:37	1
Dieldrin	<0.20		0.20	ug/L		10/05/23 12:15	10/08/23 15:37	1
Diethylphthalate	<0.50		0.50	ug/L		10/05/23 12:15	10/08/23 15:37	1
Dimethylphthalate	<0.50		0.50	ug/L		10/05/23 12:15	10/08/23 15:37	1
Di-n-butyl phthalate	<0.99		0.99	ug/L		10/05/23 12:15	10/08/23 15:37	1
Di-n-octyl phthalate	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 15:37	1
Endosulfan I (Alpha)	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 15:37	1
Endosulfan II (Beta)	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 15:37	1
Endosulfan sulfate	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 15:37	1
Endrin	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 15:37	1
Endrin aldehyde	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 15:37	1
EPTC	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 15:37	1
Fluoranthene	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 15:37	1

Eurofins Eaton Analytical Pomona

Client Sample Results

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-65439-1

Client Sample ID: MOANALUA WELLS

Lab Sample ID: 380-65439-1

Date Collected: 10/02/23 10:29

Matrix: Drinking Water

Date Received: 10/04/23 10:40

PWSID Number: HI0000331

Method: EPA 525.2 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	<0.050		0.050	ug/L		10/05/23 12:15	10/08/23 15:37	1
gamma-Chlordane	<0.050		0.050	ug/L		10/05/23 12:15	10/08/23 15:37	1
Heptachlor	<0.040		0.040	ug/L		10/05/23 12:15	10/08/23 15:37	1
Heptachlor epoxide (isomer B)	<0.050	*+	0.050	ug/L		10/05/23 12:15	10/08/23 15:37	1
Hexachlorobenzene	<0.050		0.050	ug/L		10/05/23 12:15	10/08/23 15:37	1
Hexachlorocyclopentadiene	<0.050		0.050	ug/L		10/05/23 12:15	10/08/23 15:37	1
Indeno[1,2,3-cd]pyrene	<0.050		0.050	ug/L		10/05/23 12:15	10/08/23 15:37	1
Isophorone	<0.50		0.50	ug/L		10/05/23 12:15	10/08/23 15:37	1
Lindane	<0.040		0.040	ug/L		10/05/23 12:15	10/08/23 15:37	1
Malathion	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 15:37	1
Methoxychlor	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 15:37	1
Metolachlor	<0.050		0.050	ug/L		10/05/23 12:15	10/08/23 15:37	1
Molinate	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 15:37	1
Naphthalene	<0.30		0.30	ug/L		10/05/23 12:15	10/08/23 15:37	1
Parathion	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 15:37	1
Pendimethalin (Penoxaline)	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 15:37	1
Phenanthrene	<0.040		0.040	ug/L		10/05/23 12:15	10/08/23 15:37	1
Propachlor	<0.050		0.050	ug/L		10/05/23 12:15	10/08/23 15:37	1
Pyrene	<0.050		0.050	ug/L		10/05/23 12:15	10/08/23 15:37	1
Simazine	<0.050		0.050	ug/L		10/05/23 12:15	10/08/23 15:37	1
Terbacil	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 15:37	1
Terbutylazine	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 15:37	1
Thiobencarb	<0.20		0.20	ug/L		10/05/23 12:15	10/08/23 15:37	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		10/05/23 12:15	10/08/23 15:37	1
trans-Nonachlor	<0.050		0.050	ug/L		10/05/23 12:15	10/08/23 15:37	1
Trifluralin	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 15:37	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	1.2	T J	ug/L		2.27	N/A	10/11/23 14:31	10/12/23 18:03	1
Sulfurous acid, cyclohexylmethyl dodecyl ester	0.90	T J N	ug/L		2.34	1000309-22-0	10/11/23 14:31	10/12/23 18:03	1
Decane, 2-methyl-	0.89	T J N	ug/L		2.62	6975-98-0	10/11/23 14:31	10/12/23 18:03	1
n-Hexadecanoic acid	1.6	T J N	ug/L		5.85	57-10-3	10/11/23 14:31	10/12/23 18:03	1
Dibutyl isophthalate	0.81	T J N	ug/L		6.34	3126-90-7	10/11/23 14:31	10/12/23 18:03	1
Octadecanoic acid	0.73	T J N	ug/L		6.54	57-11-4	10/11/23 14:31	10/12/23 18:03	1
Unknown	0.59	T J	ug/L		8.73	N/A	10/05/23 12:15	10/08/23 15:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	99		70 - 130	10/05/23 12:15	10/08/23 15:37	1
2-Nitro-m-xylene	100		70 - 130	10/11/23 14:31	10/12/23 18:03	1
Perylene-d12	99		70 - 130	10/05/23 12:15	10/08/23 15:37	1
Perylene-d12	100		70 - 130	10/11/23 14:31	10/12/23 18:03	1
Triphenylphosphate	97		70 - 130	10/05/23 12:15	10/08/23 15:37	1
Triphenylphosphate	105		70 - 130	10/11/23 14:31	10/12/23 18:03	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosfluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 03:16	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 03:16	1

Eurofins Eaton Analytical Pomona

Client Sample Results

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-65439-1

Client Sample ID: MOANALUA WELLS

Lab Sample ID: 380-65439-1

Date Collected: 10/02/23 10:29

Matrix: Drinking Water

Date Received: 10/04/23 10:40

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 03:16	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 03:16	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 03:16	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 03:16	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 03:16	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 03:16	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 03:16	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 03:16	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 03:16	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 03:16	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 03:16	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 03:16	1
Perfluorobutanoic acid (PFBA)	2.2		2.0	ng/L		10/11/23 11:07	10/16/23 03:16	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 03:16	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 03:16	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 03:16	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 03:16	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 03:16	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 03:16	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 03:16	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 03:16	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 03:16	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 03:16	1
Isotope Dilution	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	84		50 - 200			10/11/23 11:07	10/16/23 03:16	1
13C6 PFDA	97		50 - 200			10/11/23 11:07	10/16/23 03:16	1
13C5 PFHxA	91		50 - 200			10/11/23 11:07	10/16/23 03:16	1
13C4 PFHpA	91		50 - 200			10/11/23 11:07	10/16/23 03:16	1
13C8 PFOA	92		50 - 200			10/11/23 11:07	10/16/23 03:16	1
13C9 PFNA	99		50 - 200			10/11/23 11:07	10/16/23 03:16	1
13C7 PFUnA	99		50 - 200			10/11/23 11:07	10/16/23 03:16	1
13C2 PFDoA	100		50 - 200			10/11/23 11:07	10/16/23 03:16	1
13C4 PFBA	98		50 - 200			10/11/23 11:07	10/16/23 03:16	1
13C5 PFPeA	91		50 - 200			10/11/23 11:07	10/16/23 03:16	1
13C3 PFBS	95		50 - 200			10/11/23 11:07	10/16/23 03:16	1
13C3 PFHxS	92		50 - 200			10/11/23 11:07	10/16/23 03:16	1
13C8 PFOS	96		50 - 200			10/11/23 11:07	10/16/23 03:16	1
13C2-4:2-FTS	106		50 - 200			10/11/23 11:07	10/16/23 03:16	1
13C2-6:2-FTS	103		50 - 200			10/11/23 11:07	10/16/23 03:16	1
13C2-8:2-FTS	102		50 - 200			10/11/23 11:07	10/16/23 03:16	1

Client Sample Results

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-65439-1

Client Sample ID: AIEA GULCH WELLS PUMP 2

Lab Sample ID: 380-65439-2

Date Collected: 10/02/23 11:34

Matrix: Drinking Water

Date Received: 10/04/23 10:40

PWSID Number: HI0000331

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		10/11/23 11:07	10/16/23 03:36	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 03:36	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 03:36	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 03:36	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 03:36	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 03:36	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 03:36	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 03:36	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 03:36	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 03:36	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 03:36	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 03:36	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 03:36	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 03:36	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 03:36	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 03:36	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 03:36	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 03:36	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 03:36	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 03:36	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 03:36	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 03:36	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 03:36	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 03:36	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 03:36	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	91		50 - 200	10/11/23 11:07	10/16/23 03:36	1
13C6 PFDA	102		50 - 200	10/11/23 11:07	10/16/23 03:36	1
13C5 PFHxA	94		50 - 200	10/11/23 11:07	10/16/23 03:36	1
13C4 PFHpA	99		50 - 200	10/11/23 11:07	10/16/23 03:36	1
13C8 PFOA	98		50 - 200	10/11/23 11:07	10/16/23 03:36	1
13C9 PFNA	101		50 - 200	10/11/23 11:07	10/16/23 03:36	1
13C7 PFUnA	102		50 - 200	10/11/23 11:07	10/16/23 03:36	1
13C2 PFDoA	105		50 - 200	10/11/23 11:07	10/16/23 03:36	1
13C4 PFBA	100		50 - 200	10/11/23 11:07	10/16/23 03:36	1
13C5 PFPeA	96		50 - 200	10/11/23 11:07	10/16/23 03:36	1
13C3 PFBS	96		50 - 200	10/11/23 11:07	10/16/23 03:36	1
13C3 PFHxS	101		50 - 200	10/11/23 11:07	10/16/23 03:36	1
13C8 PFOS	101		50 - 200	10/11/23 11:07	10/16/23 03:36	1

Eurofins Eaton Analytical Pomona

Client Sample Results

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-65439-1

Client Sample ID: AIEA GULCH WELLS PUMP 2

Lab Sample ID: 380-65439-2

Date Collected: 10/02/23 11:34

Matrix: Drinking Water

Date Received: 10/04/23 10:40

PWSID Number: HI0000331

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	106		50 - 200	10/11/23 11:07	10/16/23 03:36	1
13C2-6:2-FTS	108		50 - 200	10/11/23 11:07	10/16/23 03:36	1
13C2-8:2-FTS	118		50 - 200	10/11/23 11:07	10/16/23 03:36	1

Client Sample ID: AIEA WELLS PUMPS 1&2 (260) P2

Lab Sample ID: 380-65439-3

Date Collected: 10/02/23 12:02

Matrix: Drinking Water

Date Received: 10/04/23 10:40

PWSID Number: HI0000331

Method: EPA 525.2 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 16:16	1
2,4'-DDD	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 16:16	1
2,4'-DDE	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 16:16	1
2,4'-DDT	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 16:16	1
2,4-Dinitrotoluene	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 16:16	1
2,6-Dinitrotoluene	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 16:16	1
2-Methylnaphthalene	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 16:16	1
4,4'-DDD	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 16:16	1
4,4'-DDE	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 16:16	1
4,4'-DDT	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 16:16	1
Acenaphthene	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 16:16	1
Acenaphthylene	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 16:16	1
Acetochlor	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 16:16	1
Alachlor	<0.050		0.050	ug/L		10/05/23 12:15	10/08/23 16:16	1
alpha-BHC	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 16:16	1
alpha-Chlordane	<0.050		0.050	ug/L		10/05/23 12:15	10/08/23 16:16	1
Anthracene	<0.020		0.020	ug/L		10/05/23 12:15	10/08/23 16:16	1
Atrazine	<0.050		0.050	ug/L		10/05/23 12:15	10/08/23 16:16	1
Benz(a)anthracene	<0.050		0.050	ug/L		10/05/23 12:15	10/08/23 16:16	1
Benzo[a]pyrene	<0.020		0.020	ug/L		10/05/23 12:15	10/08/23 16:16	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		10/05/23 12:15	10/08/23 16:16	1
Benzo[g,h,i]perylene	<0.050		0.050	ug/L		10/05/23 12:15	10/08/23 16:16	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		10/05/23 12:15	10/08/23 16:16	1
beta-BHC	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 16:16	1
Bis(2-ethylhexyl) phthalate	<0.59	^3+	0.59	ug/L		10/11/23 14:31	10/12/23 18:43	1
Bromacil	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 16:16	1
Butachlor	<0.050		0.050	ug/L		10/05/23 12:15	10/08/23 16:16	1
Butylbenzylphthalate	<0.50		0.50	ug/L		10/05/23 12:15	10/08/23 16:16	1
Chlorobenzilate	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 16:16	1
Chloroneb	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 16:16	1
Chlorothalonil (Draconil, Bravo)	<0.099	^3+	0.099	ug/L		10/05/23 12:15	10/08/23 16:16	1
Chlorpyrifos	<0.050		0.050	ug/L		10/05/23 12:15	10/08/23 16:16	1
Chrysene	<0.020		0.020	ug/L		10/05/23 12:15	10/08/23 16:16	1
delta-BHC	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 16:16	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		10/05/23 12:15	10/08/23 16:16	1
Dibenz(a,h)anthracene	<0.050		0.050	ug/L		10/05/23 12:15	10/08/23 16:16	1
Diclorvos (DDVP)	<0.050		0.050	ug/L		10/05/23 12:15	10/08/23 16:16	1
Dieldrin	<0.20		0.20	ug/L		10/05/23 12:15	10/08/23 16:16	1
Diethylphthalate	<0.50		0.50	ug/L		10/05/23 12:15	10/08/23 16:16	1
Dimethylphthalate	<0.50		0.50	ug/L		10/05/23 12:15	10/08/23 16:16	1

Eurofins Eaton Analytical Pomona

Client Sample Results

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-65439-1

Client Sample ID: AIEA WELLS PUMPS 1&2 (260) P2

Lab Sample ID: 380-65439-3

Date Collected: 10/02/23 12:02

Matrix: Drinking Water

Date Received: 10/04/23 10:40

PWSID Number: HI0000331

Method: EPA 525.2 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	<0.99		0.99	ug/L		10/05/23 12:15	10/08/23 16:16	1
Di-n-octyl phthalate	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 16:16	1
Endosulfan I (Alpha)	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 16:16	1
Endosulfan II (Beta)	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 16:16	1
Endosulfan sulfate	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 16:16	1
Endrin	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 16:16	1
Endrin aldehyde	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 16:16	1
EPTC	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 16:16	1
Fluoranthene	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 16:16	1
Fluorene	<0.050		0.050	ug/L		10/05/23 12:15	10/08/23 16:16	1
gamma-Chlordane	<0.050		0.050	ug/L		10/05/23 12:15	10/08/23 16:16	1
Heptachlor	<0.040		0.040	ug/L		10/05/23 12:15	10/08/23 16:16	1
Heptachlor epoxide (isomer B)	<0.050	*+	0.050	ug/L		10/05/23 12:15	10/08/23 16:16	1
Hexachlorobenzene	<0.050		0.050	ug/L		10/05/23 12:15	10/08/23 16:16	1
Hexachlorocyclopentadiene	<0.050		0.050	ug/L		10/05/23 12:15	10/08/23 16:16	1
Indeno[1,2,3-cd]pyrene	<0.050		0.050	ug/L		10/05/23 12:15	10/08/23 16:16	1
Isophorone	<0.50		0.50	ug/L		10/05/23 12:15	10/08/23 16:16	1
Lindane	<0.040		0.040	ug/L		10/05/23 12:15	10/08/23 16:16	1
Malathion	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 16:16	1
Methoxychlor	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 16:16	1
Metolachlor	<0.050		0.050	ug/L		10/05/23 12:15	10/08/23 16:16	1
Molinate	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 16:16	1
Naphthalene	<0.30		0.30	ug/L		10/05/23 12:15	10/08/23 16:16	1
Parathion	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 16:16	1
Pendimethalin (Penoxaline)	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 16:16	1
Phenanthrene	<0.040		0.040	ug/L		10/05/23 12:15	10/08/23 16:16	1
Propachlor	<0.050		0.050	ug/L		10/05/23 12:15	10/08/23 16:16	1
Pyrene	<0.050		0.050	ug/L		10/05/23 12:15	10/08/23 16:16	1
Simazine	<0.050		0.050	ug/L		10/05/23 12:15	10/08/23 16:16	1
Terbacil	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 16:16	1
Terbutylazine	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 16:16	1
Thiobencarb	<0.20		0.20	ug/L		10/05/23 12:15	10/08/23 16:16	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		10/05/23 12:15	10/08/23 16:16	1
trans-Nonachlor	<0.050		0.050	ug/L		10/05/23 12:15	10/08/23 16:16	1
Trifluralin	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 16:16	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Cyclohexane, 1-methyl-2-propyl-	0.98	T J N	ug/L		2.32	4291-79-6	10/11/23 14:31	10/12/23 18:43	1
Unknown	2.3	T J	ug/L		2.40	N/A	10/11/23 14:31	10/12/23 18:43	1
Decane, 4-methyl-	0.71	T J N	ug/L		2.60	2847-72-5	10/11/23 14:31	10/12/23 18:43	1
Tridecanoic acid	1.0	T J N	ug/L		5.85	638-53-9	10/11/23 14:31	10/12/23 18:43	1
Octadecanoic acid	0.55	T J N	ug/L		6.55	57-11-4	10/11/23 14:31	10/12/23 18:43	1
Tentatively Identified Compound	None		ug/L			N/A	10/05/23 12:15	10/08/23 16:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	100		70 - 130	10/05/23 12:15	10/08/23 16:16	1
2-Nitro-m-xylene	100		70 - 130	10/11/23 14:31	10/12/23 18:43	1
Perylene-d12	93		70 - 130	10/05/23 12:15	10/08/23 16:16	1
Perylene-d12	100		70 - 130	10/11/23 14:31	10/12/23 18:43	1
Triphenylphosphate	116		70 - 130	10/05/23 12:15	10/08/23 16:16	1

Eurofins Eaton Analytical Pomona

Client Sample Results

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-65439-1

Client Sample ID: AIEA WELLS PUMPS 1&2 (260) P2

Lab Sample ID: 380-65439-3

Date Collected: 10/02/23 12:02

Matrix: Drinking Water

Date Received: 10/04/23 10:40

PWSID Number: HI0000331

Method: EPA 525.2 - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	102		70 - 130	10/11/23 14:31	10/12/23 18:43	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosfluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 03:47	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 03:47	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 03:47	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 03:47	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 03:47	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 03:47	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 03:47	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 03:47	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 03:47	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 03:47	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 03:47	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 03:47	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 03:47	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 03:47	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 03:47	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 03:47	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 03:47	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 03:47	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 03:47	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 03:47	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 03:47	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 03:47	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 03:47	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 03:47	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 03:47	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	93		50 - 200	10/11/23 11:07	10/16/23 03:47	1
13C6 PFDA	104		50 - 200	10/11/23 11:07	10/16/23 03:47	1
13C5 PFHxA	97		50 - 200	10/11/23 11:07	10/16/23 03:47	1
13C4 PFHpA	99		50 - 200	10/11/23 11:07	10/16/23 03:47	1
13C8 PFOA	102		50 - 200	10/11/23 11:07	10/16/23 03:47	1
13C9 PFNA	103		50 - 200	10/11/23 11:07	10/16/23 03:47	1
13C7 PFUnA	104		50 - 200	10/11/23 11:07	10/16/23 03:47	1
13C2 PFDoA	105		50 - 200	10/11/23 11:07	10/16/23 03:47	1
13C4 PFBA	98		50 - 200	10/11/23 11:07	10/16/23 03:47	1

Eurofins Eaton Analytical Pomona

Client Sample Results

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-65439-1

Client Sample ID: AIEA WELLS PUMPS 1&2 (260) P2

Lab Sample ID: 380-65439-3

Date Collected: 10/02/23 12:02

Matrix: Drinking Water

Date Received: 10/04/23 10:40

PWSID Number: HI0000331

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFPeA	95		50 - 200	10/11/23 11:07	10/16/23 03:47	1
13C3 PFBS	99		50 - 200	10/11/23 11:07	10/16/23 03:47	1
13C3 PFHxS	97		50 - 200	10/11/23 11:07	10/16/23 03:47	1
13C8 PFOS	100		50 - 200	10/11/23 11:07	10/16/23 03:47	1
13C2-4:2-FTS	104		50 - 200	10/11/23 11:07	10/16/23 03:47	1
13C2-6:2-FTS	99		50 - 200	10/11/23 11:07	10/16/23 03:47	1
13C2-8:2-FTS	105		50 - 200	10/11/23 11:07	10/16/23 03:47	1

Client Sample ID: HALAWA WELLS UNITS 1 & 2 P1

Lab Sample ID: 380-65439-4

Date Collected: 10/02/23 10:58

Matrix: Drinking Water

Date Received: 10/04/23 10:40

PWSID Number: HI0000331

Method: EPA 525.2 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 16:36	1
2,4'-DDD	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 16:36	1
2,4'-DDE	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 16:36	1
2,4'-DDT	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 16:36	1
2,4-Dinitrotoluene	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 16:36	1
2,6-Dinitrotoluene	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 16:36	1
2-Methylnaphthalene	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 16:36	1
4,4'-DDD	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 16:36	1
4,4'-DDE	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 16:36	1
4,4'-DDT	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 16:36	1
Acenaphthene	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 16:36	1
Acenaphthylene	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 16:36	1
Acetochlor	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 16:36	1
Alachlor	<0.050		0.050	ug/L		10/05/23 12:15	10/08/23 16:36	1
alpha-BHC	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 16:36	1
alpha-Chlordane	<0.050		0.050	ug/L		10/05/23 12:15	10/08/23 16:36	1
Anthracene	<0.020		0.020	ug/L		10/05/23 12:15	10/08/23 16:36	1
Atrazine	<0.050		0.050	ug/L		10/05/23 12:15	10/08/23 16:36	1
Benz(a)anthracene	<0.050		0.050	ug/L		10/05/23 12:15	10/08/23 16:36	1
Benzo[a]pyrene	<0.020		0.020	ug/L		10/05/23 12:15	10/08/23 16:36	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		10/05/23 12:15	10/08/23 16:36	1
Benzo[g,h,i]perylene	<0.050		0.050	ug/L		10/05/23 12:15	10/08/23 16:36	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		10/05/23 12:15	10/08/23 16:36	1
beta-BHC	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 16:36	1
Bis(2-ethylhexyl) phthalate	<0.60	^3+	0.60	ug/L		10/11/23 14:31	10/12/23 19:03	1
Bromacil	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 16:36	1
Butachlor	<0.050		0.050	ug/L		10/05/23 12:15	10/08/23 16:36	1
Butylbenzylphthalate	<0.50		0.50	ug/L		10/05/23 12:15	10/08/23 16:36	1
Chlorobenzilate	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 16:36	1
Chloroneb	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 16:36	1
Chlorothalonil (Draconil, Bravo)	<0.099	^3+	0.099	ug/L		10/05/23 12:15	10/08/23 16:36	1
Chlorpyrifos	<0.050		0.050	ug/L		10/05/23 12:15	10/08/23 16:36	1
Chrysene	<0.020		0.020	ug/L		10/05/23 12:15	10/08/23 16:36	1
delta-BHC	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 16:36	1
Di(2-ethylhexyl)adipate	<0.60		0.60	ug/L		10/05/23 12:15	10/08/23 16:36	1
Dibenz(a,h)anthracene	<0.050		0.050	ug/L		10/05/23 12:15	10/08/23 16:36	1

Eurofins Eaton Analytical Pomona

Client Sample Results

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-65439-1

Client Sample ID: HALAWA WELLS UNITS 1 & 2 P1

Lab Sample ID: 380-65439-4

Date Collected: 10/02/23 10:58

Matrix: Drinking Water

Date Received: 10/04/23 10:40

PWSID Number: HI0000331

Method: EPA 525.2 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diclorvos (DDVP)	<0.050		0.050	ug/L		10/05/23 12:15	10/08/23 16:36	1
Dieldrin	<0.20		0.20	ug/L		10/05/23 12:15	10/08/23 16:36	1
Diethylphthalate	<0.50		0.50	ug/L		10/05/23 12:15	10/08/23 16:36	1
Dimethylphthalate	<0.50		0.50	ug/L		10/05/23 12:15	10/08/23 16:36	1
Di-n-butyl phthalate	<0.99		0.99	ug/L		10/05/23 12:15	10/08/23 16:36	1
Di-n-octyl phthalate	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 16:36	1
Endosulfan I (Alpha)	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 16:36	1
Endosulfan II (Beta)	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 16:36	1
Endosulfan sulfate	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 16:36	1
Endrin	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 16:36	1
Endrin aldehyde	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 16:36	1
EPTC	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 16:36	1
Fluoranthene	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 16:36	1
Fluorene	<0.050		0.050	ug/L		10/05/23 12:15	10/08/23 16:36	1
gamma-Chlordane	<0.050		0.050	ug/L		10/05/23 12:15	10/08/23 16:36	1
Heptachlor	<0.040		0.040	ug/L		10/05/23 12:15	10/08/23 16:36	1
Heptachlor epoxide (isomer B)	<0.050	*+	0.050	ug/L		10/05/23 12:15	10/08/23 16:36	1
Hexachlorobenzene	<0.050		0.050	ug/L		10/05/23 12:15	10/08/23 16:36	1
Hexachlorocyclopentadiene	<0.050		0.050	ug/L		10/05/23 12:15	10/08/23 16:36	1
Indeno[1,2,3-cd]pyrene	<0.050		0.050	ug/L		10/05/23 12:15	10/08/23 16:36	1
Isophorone	<0.50		0.50	ug/L		10/05/23 12:15	10/08/23 16:36	1
Lindane	<0.040		0.040	ug/L		10/05/23 12:15	10/08/23 16:36	1
Malathion	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 16:36	1
Methoxychlor	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 16:36	1
Metolachlor	<0.050		0.050	ug/L		10/05/23 12:15	10/08/23 16:36	1
Molinate	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 16:36	1
Naphthalene	<0.30		0.30	ug/L		10/05/23 12:15	10/08/23 16:36	1
Parathion	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 16:36	1
Pendimethalin (Penoxaline)	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 16:36	1
Phenanthrene	<0.040		0.040	ug/L		10/05/23 12:15	10/08/23 16:36	1
Propachlor	<0.050		0.050	ug/L		10/05/23 12:15	10/08/23 16:36	1
Pyrene	<0.050		0.050	ug/L		10/05/23 12:15	10/08/23 16:36	1
Simazine	<0.050		0.050	ug/L		10/05/23 12:15	10/08/23 16:36	1
Terbacil	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 16:36	1
Terbutylazine	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 16:36	1
Thiobencarb	<0.20		0.20	ug/L		10/05/23 12:15	10/08/23 16:36	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		10/05/23 12:15	10/08/23 16:36	1
trans-Nonachlor	<0.050		0.050	ug/L		10/05/23 12:15	10/08/23 16:36	1
Trifluralin	<0.099		0.099	ug/L		10/05/23 12:15	10/08/23 16:36	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	1.1	TJ	ug/L		2.26	N/A	10/11/23 14:31	10/12/23 19:03	1
Unknown	1.1	TJ	ug/L		2.34	N/A	10/11/23 14:31	10/12/23 19:03	1
Decane	2.4	TJN	ug/L		2.44	124-18-5	10/11/23 14:31	10/12/23 19:03	1
n-Hexadecanoic acid	1.4	TJN	ug/L		5.86	57-10-3	10/11/23 14:31	10/12/23 19:03	1
Dibutyl isophthalate	0.77	TJN	ug/L		6.34	3126-90-7	10/11/23 14:31	10/12/23 19:03	1
Octadecanoic acid	0.82	TJN	ug/L		6.55	57-11-4	10/11/23 14:31	10/12/23 19:03	1
Pentacosane	0.61	TJN	ug/L		8.12	629-99-2	10/05/23 12:15	10/08/23 16:36	1
Unknown	0.67	TJ	ug/L		8.73	N/A	10/05/23 12:15	10/08/23 16:36	1
Unknown	0.57	TJ	ug/L		9.40	N/A	10/05/23 12:15	10/08/23 16:36	1

Eurofins Eaton Analytical Pomona

Client Sample Results

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-65439-1

Client Sample ID: HALAWA WELLS UNITS 1 & 2 P1

Lab Sample ID: 380-65439-4

Date Collected: 10/02/23 10:58

Matrix: Drinking Water

Date Received: 10/04/23 10:40

PWSID Number: HI0000331

Method: EPA 525.2 - Semivolatile Organic Compounds (GC/MS) (Continued)

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	0.50	T J	ug/L		10.12	N/A	10/05/23 12:15	10/08/23 16:36	1
13-Docosenamide, (Z)-	0.59	T J N	ug/L		10.17	112-84-5	10/11/23 14:31	10/12/23 19:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	100		70 - 130				10/05/23 12:15	10/08/23 16:36	1
2-Nitro-m-xylene	99		70 - 130				10/11/23 14:31	10/12/23 19:03	1
Perylene-d12	95		70 - 130				10/05/23 12:15	10/08/23 16:36	1
Perylene-d12	98		70 - 130				10/11/23 14:31	10/12/23 19:03	1
Triphenylphosphate	116		70 - 130				10/05/23 12:15	10/08/23 16:36	1
Triphenylphosphate	105		70 - 130				10/11/23 14:31	10/12/23 19:03	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafuoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 03:57	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 03:57	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 03:57	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 03:57	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 03:57	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 03:57	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 03:57	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 03:57	1
Perfluorohexanesulfonic acid (PFHxS)	2.5		2.0	ng/L		10/11/23 11:07	10/16/23 03:57	1
Perfluorohexanoic acid (PFHxA)	2.3		2.0	ng/L		10/11/23 11:07	10/16/23 03:57	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 03:57	1
Perfluorooctanesulfonic acid (PFOS)	2.4		2.0	ng/L		10/11/23 11:07	10/16/23 03:57	1
Perfluorooctanoic acid (PFOA)	2.2		2.0	ng/L		10/11/23 11:07	10/16/23 03:57	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 03:57	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 03:57	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 03:57	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 03:57	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 03:57	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 03:57	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 03:57	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 03:57	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 03:57	1
Perfluoropentanoic acid (PFPeA)	2.6		2.0	ng/L		10/11/23 11:07	10/16/23 03:57	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 03:57	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 03:57	1

Eurofins Eaton Analytical Pomona

Client Sample Results

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-65439-1

Client Sample ID: HALAWA WELLS UNITS 1 & 2 P1

Lab Sample ID: 380-65439-4

Date Collected: 10/02/23 10:58

Matrix: Drinking Water

Date Received: 10/04/23 10:40

PWSID Number: HI0000331

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	85		50 - 200	10/11/23 11:07	10/16/23 03:57	1
13C6 PFDA	92		50 - 200	10/11/23 11:07	10/16/23 03:57	1
13C5 PFHxA	88		50 - 200	10/11/23 11:07	10/16/23 03:57	1
13C4 PFHpA	88		50 - 200	10/11/23 11:07	10/16/23 03:57	1
13C8 PFOA	89		50 - 200	10/11/23 11:07	10/16/23 03:57	1
13C9 PFNA	92		50 - 200	10/11/23 11:07	10/16/23 03:57	1
13C7 PFUnA	91		50 - 200	10/11/23 11:07	10/16/23 03:57	1
13C2 PFDoA	94		50 - 200	10/11/23 11:07	10/16/23 03:57	1
13C4 PFBA	89		50 - 200	10/11/23 11:07	10/16/23 03:57	1
13C5 PFPeA	85		50 - 200	10/11/23 11:07	10/16/23 03:57	1
13C3 PFBS	89		50 - 200	10/11/23 11:07	10/16/23 03:57	1
13C3 PFHxS	91		50 - 200	10/11/23 11:07	10/16/23 03:57	1
13C8 PFOS	91		50 - 200	10/11/23 11:07	10/16/23 03:57	1
13C2-4:2-FTS	93		50 - 200	10/11/23 11:07	10/16/23 03:57	1
13C2-6:2-FTS	92		50 - 200	10/11/23 11:07	10/16/23 03:57	1
13C2-8:2-FTS	94		50 - 200	10/11/23 11:07	10/16/23 03:57	1

Client Sample ID: FB MOANALUA WELLS

Lab Sample ID: 380-65439-9

Date Collected: 10/02/23 10:29

Matrix: Water

Date Received: 10/04/23 10:40

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:06	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:06	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:06	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:06	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:06	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:06	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:06	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:06	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:06	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:06	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:06	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:06	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:06	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:06	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:06	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:06	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:06	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:06	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:06	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:06	1

Eurofins Eaton Analytical Pomona

Client Sample Results

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-65439-1

Client Sample ID: FB MOANALUA WELLS

Lab Sample ID: 380-65439-9

Date Collected: 10/02/23 10:29

Matrix: Water

Date Received: 10/04/23 10:40

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:06	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:06	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:06	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:06	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:06	1
Isotope Dilution	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	94		50 - 200			10/11/23 11:07	10/16/23 04:06	1
13C6 PFDA	100		50 - 200			10/11/23 11:07	10/16/23 04:06	1
13C5 PFHxA	96		50 - 200			10/11/23 11:07	10/16/23 04:06	1
13C4 PFHpA	93		50 - 200			10/11/23 11:07	10/16/23 04:06	1
13C8 PFOA	97		50 - 200			10/11/23 11:07	10/16/23 04:06	1
13C9 PFNA	99		50 - 200			10/11/23 11:07	10/16/23 04:06	1
13C7 PFUnA	100		50 - 200			10/11/23 11:07	10/16/23 04:06	1
13C2 PFDoA	102		50 - 200			10/11/23 11:07	10/16/23 04:06	1
13C4 PFBA	99		50 - 200			10/11/23 11:07	10/16/23 04:06	1
13C5 PFPeA	88		50 - 200			10/11/23 11:07	10/16/23 04:06	1
13C3 PFBS	98		50 - 200			10/11/23 11:07	10/16/23 04:06	1
13C3 PFHxS	102		50 - 200			10/11/23 11:07	10/16/23 04:06	1
13C8 PFOS	100		50 - 200			10/11/23 11:07	10/16/23 04:06	1
13C2-4:2-FTS	104		50 - 200			10/11/23 11:07	10/16/23 04:06	1
13C2-6:2-FTS	99		50 - 200			10/11/23 11:07	10/16/23 04:06	1
13C2-8:2-FTS	101		50 - 200			10/11/23 11:07	10/16/23 04:06	1

Client Sample ID: FB AIEA GULCH WELLS PUMP 2

Lab Sample ID: 380-65439-10

Date Collected: 10/02/23 11:34

Matrix: Water

Date Received: 10/04/23 10:40

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosfluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:16	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:16	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:16	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:16	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:16	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:16	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:16	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:16	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:16	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:16	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:16	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:16	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:16	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:16	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:16	1

Eurofins Eaton Analytical Pomona

Client Sample Results

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-65439-1

Client Sample ID: FB AIEA GULCH WELLS PUMP 2

Lab Sample ID: 380-65439-10

Date Collected: 10/02/23 11:34

Matrix: Water

Date Received: 10/04/23 10:40

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:16	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:16	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:16	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:16	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:16	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:16	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:16	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:16	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:16	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:16	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	91		50 - 200	10/11/23 11:07	10/16/23 04:16	1
13C6 PFDA	102		50 - 200	10/11/23 11:07	10/16/23 04:16	1
13C5 PFHxA	95		50 - 200	10/11/23 11:07	10/16/23 04:16	1
13C4 PFHpA	96		50 - 200	10/11/23 11:07	10/16/23 04:16	1
13C8 PFOA	94		50 - 200	10/11/23 11:07	10/16/23 04:16	1
13C9 PFNA	99		50 - 200	10/11/23 11:07	10/16/23 04:16	1
13C7 PFUnA	100		50 - 200	10/11/23 11:07	10/16/23 04:16	1
13C2 PFDoA	101		50 - 200	10/11/23 11:07	10/16/23 04:16	1
13C4 PFBA	99		50 - 200	10/11/23 11:07	10/16/23 04:16	1
13C5 PFPeA	97		50 - 200	10/11/23 11:07	10/16/23 04:16	1
13C3 PFBS	97		50 - 200	10/11/23 11:07	10/16/23 04:16	1
13C3 PFHxS	96		50 - 200	10/11/23 11:07	10/16/23 04:16	1
13C8 PFOS	98		50 - 200	10/11/23 11:07	10/16/23 04:16	1
13C2-4:2-FTS	97		50 - 200	10/11/23 11:07	10/16/23 04:16	1
13C2-6:2-FTS	97		50 - 200	10/11/23 11:07	10/16/23 04:16	1
13C2-8:2-FTS	98		50 - 200	10/11/23 11:07	10/16/23 04:16	1

Client Sample ID: FB AIEA WELLS PUMPS 1&2 (260) P2

Lab Sample ID: 380-65439-11

Date Collected: 10/02/23 12:02

Matrix: Water

Date Received: 10/04/23 10:40

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafuoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:26	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:26	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:26	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:26	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:26	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:26	1

Eurofins Eaton Analytical Pomona

Client Sample Results

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-65439-1

Client Sample ID: FB AIEA WELLS PUMPS 1&2 (260) P2

Lab Sample ID: 380-65439-11

Date Collected: 10/02/23 12:02

Matrix: Water

Date Received: 10/04/23 10:40

PWSID Number: HI0000331

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		10/11/23 11:07	10/16/23 04:26	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:26	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:26	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:26	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:26	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:26	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:26	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:26	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:26	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:26	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:26	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:26	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:26	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:26	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:26	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:26	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:26	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:26	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:26	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	88		50 - 200	10/11/23 11:07	10/16/23 04:26	1
13C6 PFDA	99		50 - 200	10/11/23 11:07	10/16/23 04:26	1
13C5 PFHxA	95		50 - 200	10/11/23 11:07	10/16/23 04:26	1
13C4 PFHpA	95		50 - 200	10/11/23 11:07	10/16/23 04:26	1
13C8 PFOA	98		50 - 200	10/11/23 11:07	10/16/23 04:26	1
13C9 PFNA	99		50 - 200	10/11/23 11:07	10/16/23 04:26	1
13C7 PFUnA	97		50 - 200	10/11/23 11:07	10/16/23 04:26	1
13C2 PFDoA	99		50 - 200	10/11/23 11:07	10/16/23 04:26	1
13C4 PFBA	97		50 - 200	10/11/23 11:07	10/16/23 04:26	1
13C5 PFPeA	89		50 - 200	10/11/23 11:07	10/16/23 04:26	1
13C3 PFBS	99		50 - 200	10/11/23 11:07	10/16/23 04:26	1
13C3 PFHxS	99		50 - 200	10/11/23 11:07	10/16/23 04:26	1
13C8 PFOS	100		50 - 200	10/11/23 11:07	10/16/23 04:26	1
13C2-4:2-FTS	101		50 - 200	10/11/23 11:07	10/16/23 04:26	1
13C2-6:2-FTS	97		50 - 200	10/11/23 11:07	10/16/23 04:26	1
13C2-8:2-FTS	101		50 - 200	10/11/23 11:07	10/16/23 04:26	1

Client Sample Results

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-65439-1

Client Sample ID: FB HALAWA WELLS UNITS 1 & 2 P1

Lab Sample ID: 380-65439-12

Date Collected: 10/02/23 10:58

Matrix: Water

Date Received: 10/04/23 10:40

PWSID Number: HI0000331

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		10/11/23 11:07	10/16/23 04:35	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:35	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:35	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:35	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:35	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:35	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:35	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:35	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:35	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:35	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:35	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:35	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:35	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:35	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:35	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:35	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:35	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:35	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:35	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:35	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:35	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:35	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:35	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:35	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		10/11/23 11:07	10/16/23 04:35	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	94		50 - 200	10/11/23 11:07	10/16/23 04:35	1
13C6 PFDA	101		50 - 200	10/11/23 11:07	10/16/23 04:35	1
13C5 PFHxA	98		50 - 200	10/11/23 11:07	10/16/23 04:35	1
13C4 PFHpA	98		50 - 200	10/11/23 11:07	10/16/23 04:35	1
13C8 PFOA	99		50 - 200	10/11/23 11:07	10/16/23 04:35	1
13C9 PFNA	100		50 - 200	10/11/23 11:07	10/16/23 04:35	1
13C7 PFUnA	103		50 - 200	10/11/23 11:07	10/16/23 04:35	1
13C2 PFDoA	101		50 - 200	10/11/23 11:07	10/16/23 04:35	1
13C4 PFBA	103		50 - 200	10/11/23 11:07	10/16/23 04:35	1
13C5 PFPeA	99		50 - 200	10/11/23 11:07	10/16/23 04:35	1
13C3 PFBS	104		50 - 200	10/11/23 11:07	10/16/23 04:35	1
13C3 PFHxS	106		50 - 200	10/11/23 11:07	10/16/23 04:35	1
13C8 PFOS	103		50 - 200	10/11/23 11:07	10/16/23 04:35	1

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Client Sample Results

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-65439-1

Client Sample ID: FB HALAWA WELLS UNITS 1 & 2 P1

Lab Sample ID: 380-65439-12

Date Collected: 10/02/23 10:58

Matrix: Water

Date Received: 10/04/23 10:40

PWSID Number: HI0000331

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

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C2-4:2-FTS	109		50 - 200	10/11/23 11:07	10/16/23 04:35	1
13C2-6:2-FTS	106		50 - 200	10/11/23 11:07	10/16/23 04:35	1
13C2-8:2-FTS	112		50 - 200	10/11/23 11:07	10/16/23 04:35	1

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Action Limit Summary

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-65439-1

Client Sample ID: MOANALUA WELLS

Lab Sample ID: 380-65439-1

PWSID Number: HI0000331

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				
Alachlor	<0.050		ug/L	2		0.050	525.2	Total/NA
Atrazine	<0.050		ug/L	3		0.050	525.2	Total/NA
Benzo[a]pyrene	<0.020		ug/L	0.2		0.020	525.2	Total/NA
Bis(2-ethylhexyl) phthalate	<0.59	^3+	ug/L	6		0.59	525.2	Total/NA
Di(2-ethylhexyl)adipate	<0.60		ug/L	400		0.60	525.2	Total/NA
Endrin	<0.099		ug/L	2		0.099	525.2	Total/NA
Heptachlor	<0.040		ug/L	0.4		0.040	525.2	Total/NA
Heptachlor epoxide (isomer B)	<0.050	*+	ug/L	0.2		0.050	525.2	Total/NA
Hexachlorobenzene	<0.050		ug/L	1		0.050	525.2	Total/NA
Hexachlorocyclopentadiene	<0.050		ug/L	50		0.050	525.2	Total/NA
Lindane	<0.040		ug/L	0.2		0.040	525.2	Total/NA
Methoxychlor	<0.099		ug/L	40		0.099	525.2	Total/NA
Simazine	<0.050		ug/L	4		0.050	525.2	Total/NA

Client Sample ID: AIEA WELLS PUMPS 1&2 (260) P2

Lab Sample ID: 380-65439-3

PWSID Number: HI0000331

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				
Alachlor	<0.050		ug/L	2		0.050	525.2	Total/NA
Atrazine	<0.050		ug/L	3		0.050	525.2	Total/NA
Benzo[a]pyrene	<0.020		ug/L	0.2		0.020	525.2	Total/NA
Bis(2-ethylhexyl) phthalate	<0.59	^3+	ug/L	6		0.59	525.2	Total/NA
Di(2-ethylhexyl)adipate	<0.59		ug/L	400		0.59	525.2	Total/NA
Endrin	<0.099		ug/L	2		0.099	525.2	Total/NA
Heptachlor	<0.040		ug/L	0.4		0.040	525.2	Total/NA
Heptachlor epoxide (isomer B)	<0.050	*+	ug/L	0.2		0.050	525.2	Total/NA
Hexachlorobenzene	<0.050		ug/L	1		0.050	525.2	Total/NA
Hexachlorocyclopentadiene	<0.050		ug/L	50		0.050	525.2	Total/NA
Lindane	<0.040		ug/L	0.2		0.040	525.2	Total/NA
Methoxychlor	<0.099		ug/L	40		0.099	525.2	Total/NA
Simazine	<0.050		ug/L	4		0.050	525.2	Total/NA

Client Sample ID: HALAWA WELLS UNITS 1 & 2 P1

Lab Sample ID: 380-65439-4

PWSID Number: HI0000331

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				
Alachlor	<0.050		ug/L	2		0.050	525.2	Total/NA
Atrazine	<0.050		ug/L	3		0.050	525.2	Total/NA

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Action Limit Summary

Client: City & County of Honolulu
 Project/Site: RED-HILL

Job ID: 380-65439-1

Client Sample ID: HALAWA WELLS UNITS 1 & 2 P1
(Continued)
PWSID Number: HI0000331

Lab Sample ID: 380-65439-4

Compliance Check

The results obtained from the analytical testing of this data set were checked against compliance limits received from the client. Any results at or above the compliance limits have been highlighted for your convenience.

Analyte	Result	Qualifier	Unit	EPAMCL Limit	RL	Method	Prep Type
Benzo[a]pyrene	<0.020		ug/L	0.2	0.020	525.2	Total/NA
Bis(2-ethylhexyl) phthalate	<0.60	^3+	ug/L	6	0.60	525.2	Total/NA
Di(2-ethylhexyl)adipate	<0.60		ug/L	400	0.60	525.2	Total/NA
Endrin	<0.099		ug/L	2	0.099	525.2	Total/NA
Heptachlor	<0.040		ug/L	0.4	0.040	525.2	Total/NA
Heptachlor epoxide (isomer B)	<0.050	*+	ug/L	0.2	0.050	525.2	Total/NA
Hexachlorobenzene	<0.050		ug/L	1	0.050	525.2	Total/NA
Hexachlorocyclopentadiene	<0.050		ug/L	50	0.050	525.2	Total/NA
Lindane	<0.040		ug/L	0.2	0.040	525.2	Total/NA
Methoxychlor	<0.099		ug/L	40	0.099	525.2	Total/NA
Simazine	<0.050		ug/L	4	0.050	525.2	Total/NA

Surrogate Summary

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-65439-1

Method: 525.2 - Semivolatile Organic Compounds (GC/MS)

Matrix: Drinking Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		2NMX (70-130)	PRY (70-130)	TPP (70-130)
380-65439-1	MOANALUA WELLS	99	99	97
380-65439-1	MOANALUA WELLS	100	100	105
380-65439-3	AIEA WELLS PUMPS 1&2 (260) P2	100	93	116
380-65439-3	AIEA WELLS PUMPS 1&2 (260) P2	100	100	102
380-65439-4	HALAWA WELLS UNITS 1 & 2 P1	100	95	116
380-65439-4	HALAWA WELLS UNITS 1 & 2 P1	99	98	105

Surrogate Legend

2NMX = 2-Nitro-m-xylene

PRY = Perylene-d12

TPP = Triphenylphosphate

Method: 525.2 - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		2NMX (70-130)	PRY (70-130)	TPP (70-130)
380-65286-J-2-A MS	Matrix Spike	99	96	106
380-65998-B-1-A DU	Duplicate	99	100	104
380-65384-DM-1-A MS	Matrix Spike	104	97	118
380-65471-AX-1-A DU	Duplicate	101	90	113
LCS 380-58067/23-A	Lab Control Sample	102	101	114
LCS 380-58918/23-A	Lab Control Sample	101	99	100
LCSD 380-58067/24-A	Lab Control Sample Dup	102	100	116
LCSD 380-58918/24-A	Lab Control Sample Dup	100	96	107
MB 380-58067/21-A	Method Blank	99	97	113
MB 380-58918/21-A	Method Blank	102	84	106
MRL 380-58067/22-A	Lab Control Sample	102	97	116
MRL 380-58918/22-A	Lab Control Sample	100	85	101

Surrogate Legend

2NMX = 2-Nitro-m-xylene

PRY = Perylene-d12

TPP = Triphenylphosphate

Isotope Dilution Summary

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-65439-1

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	HFPODA (50-200)	C6PFDA (50-200)	13C5PHA (50-200)	C4PFHA (50-200)	C8PFOA (50-200)	C9PFNA (50-200)	13C7PUA (50-200)	PFDaA (50-200)
380-65439-1	MOANALUA WELLS	84	97	91	91	92	99	99	100
380-65439-2	AIEA GULCH WELLS PUMP 2	91	102	94	99	98	101	102	105
380-65439-3	AIEA WELLS PUMPS 1&2 (260) P2	93	104	97	99	102	103	104	105
380-65439-4	HALAWA WELLS UNITS 1 & 2 P1	85	92	88	88	89	92	91	94

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)
380-65439-1	MOANALUA WELLS	98	91	95	92	96	106	103	102
380-65439-2	AIEA GULCH WELLS PUMP 2	100	96	96	101	101	106	108	118
380-65439-3	AIEA WELLS PUMPS 1&2 (260) P2	98	95	99	97	100	104	99	105
380-65439-4	HALAWA WELLS UNITS 1 & 2 P1	89	85	89	91	91	93	92	94

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

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)
380-65375-B-1-A MS	Matrix Spike	106	108	108	102	100	104	110	107
380-65375-C-1-A MSD	Matrix Spike Duplicate	112	105	104	100	102	102	107	107
380-65439-9	FB MOANALUA WELLS	94	100	96	93	97	99	100	102
380-65439-10	FB AIEA GULCH WELLS PUMP 2	91	102	95	96	94	99	100	101
380-65439-11	FB AIEA WELLS PUMPS 1&2 (260) P2	88	99	95	95	98	99	97	99
380-65439-12	FB HALAWA WELLS UNITS 1 & 2 P1	94	101	98	98	99	100	103	101
LCS 380-58879/22-A	Lab Control Sample	99	101	98	99	98	102	102	103
LCS 380-58879/23-A	Lab Control Sample Dup	102	107	100	103	100	105	105	104
MBL 380-58879/20-A	Method Blank	91	98	96	95	95	99	96	97

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Isotope Dilution Summary

Client: City & County of Honolulu
 Project/Site: RED-HILL

Job ID: 380-65439-1

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

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)	PFDoA (50-200)
MRL 380-58879/21-A	Lab Control Sample	84	99	98	94	98	102	98	98

		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)
380-65375-B-1-A MS	Matrix Spike	99	104	101	103	102	103	102	110
380-65375-C-1-A MSD	Matrix Spike Duplicate	100	100	102	103	102	101	103	107
380-65439-9	FB MOANALUA WELLS	99	88	98	102	100	104	99	101
380-65439-10	FB AIEA GULCH WELLS PUMP 2	99	97	97	96	98	97	97	98
380-65439-11	FB AIEA WELLS PUMPS 1&2 (260) P2	97	89	99	99	100	101	97	101
380-65439-12	FB HALAWA WELLS UNITS 1 & 2 P1	103	99	104	106	103	109	106	112
LCS 380-58879/22-A	Lab Control Sample	100	101	97	100	100	97	102	102
LCSD 380-58879/23-A	Lab Control Sample Dup	101	99	94	100	103	100	101	106
MBL 380-58879/20-A	Method Blank	98	94	98	99	99	111	109	113
MRL 380-58879/21-A	Lab Control Sample	98	92	96	96	95	100	99	102

Surrogate Legend

- HFPODA = 13C3 HFPO-DA
- C6PFDA = 13C6 PFDA
- 13C5PHA = 13C5 PFHxA
- C4PFHA = 13C4 PFHpA
- C8PFOA = 13C8 PFOA
- C9PFNA = 13C9 PFNA
- 13C7PUA = 13C7 PFUnA
- PFDoA = 13C2 PFDoA
- 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: RED-HILL

Job ID: 380-65439-1

Method: 525.2 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 380-58067/21-A
Matrix: Water
Analysis Batch: 58448

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 58067

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1-Methylnaphthalene	<0.098		0.098	ug/L		10/05/23 10:30	10/08/23 10:00	1
2,4'-DDD	<0.098		0.098	ug/L		10/05/23 10:30	10/08/23 10:00	1
2,4'-DDE	<0.098		0.098	ug/L		10/05/23 10:30	10/08/23 10:00	1
2,4'-DDT	<0.098		0.098	ug/L		10/05/23 10:30	10/08/23 10:00	1
2,4-Dinitrotoluene	<0.098		0.098	ug/L		10/05/23 10:30	10/08/23 10:00	1
2,6-Dinitrotoluene	<0.098		0.098	ug/L		10/05/23 10:30	10/08/23 10:00	1
2-Methylnaphthalene	<0.098		0.098	ug/L		10/05/23 10:30	10/08/23 10:00	1
4,4'-DDD	<0.098		0.098	ug/L		10/05/23 10:30	10/08/23 10:00	1
4,4'-DDE	<0.098		0.098	ug/L		10/05/23 10:30	10/08/23 10:00	1
4,4'-DDT	<0.098		0.098	ug/L		10/05/23 10:30	10/08/23 10:00	1
Acenaphthene	<0.098		0.098	ug/L		10/05/23 10:30	10/08/23 10:00	1
Acenaphthylene	<0.098		0.098	ug/L		10/05/23 10:30	10/08/23 10:00	1
Acetochlor	<0.098		0.098	ug/L		10/05/23 10:30	10/08/23 10:00	1
Alachlor	<0.049		0.049	ug/L		10/05/23 10:30	10/08/23 10:00	1
alpha-BHC	<0.098		0.098	ug/L		10/05/23 10:30	10/08/23 10:00	1
alpha-Chlordane	<0.049		0.049	ug/L		10/05/23 10:30	10/08/23 10:00	1
Anthracene	<0.020		0.020	ug/L		10/05/23 10:30	10/08/23 10:00	1
Atrazine	<0.049		0.049	ug/L		10/05/23 10:30	10/08/23 10:00	1
Benz(a)anthracene	<0.049		0.049	ug/L		10/05/23 10:30	10/08/23 10:00	1
Benzo[a]pyrene	<0.020		0.020	ug/L		10/05/23 10:30	10/08/23 10:00	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		10/05/23 10:30	10/08/23 10:00	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		10/05/23 10:30	10/08/23 10:00	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		10/05/23 10:30	10/08/23 10:00	1
beta-BHC	<0.098		0.098	ug/L		10/05/23 10:30	10/08/23 10:00	1
Bis(2-ethylhexyl) phthalate	1.23	B	0.59	ug/L		10/05/23 10:30	10/08/23 10:00	1
Bromacil	<0.098		0.098	ug/L		10/05/23 10:30	10/08/23 10:00	1
Butachlor	<0.049		0.049	ug/L		10/05/23 10:30	10/08/23 10:00	1
Butylbenzylphthalate	<0.49		0.49	ug/L		10/05/23 10:30	10/08/23 10:00	1
Chlorobenzilate	<0.098		0.098	ug/L		10/05/23 10:30	10/08/23 10:00	1
Chloroneb	<0.098		0.098	ug/L		10/05/23 10:30	10/08/23 10:00	1
Chlorothalonil (Draconil, Bravo)	<0.098		0.098	ug/L		10/05/23 10:30	10/08/23 10:00	1
Chlorpyrifos	<0.049		0.049	ug/L		10/05/23 10:30	10/08/23 10:00	1
Chrysene	<0.020		0.020	ug/L		10/05/23 10:30	10/08/23 10:00	1
delta-BHC	<0.098		0.098	ug/L		10/05/23 10:30	10/08/23 10:00	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		10/05/23 10:30	10/08/23 10:00	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		10/05/23 10:30	10/08/23 10:00	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		10/05/23 10:30	10/08/23 10:00	1
Dieldrin	<0.20		0.20	ug/L		10/05/23 10:30	10/08/23 10:00	1
Diethylphthalate	<0.49		0.49	ug/L		10/05/23 10:30	10/08/23 10:00	1
Dimethylphthalate	<0.49		0.49	ug/L		10/05/23 10:30	10/08/23 10:00	1
Di-n-butyl phthalate	<0.98		0.98	ug/L		10/05/23 10:30	10/08/23 10:00	1
Di-n-octyl phthalate	<0.098		0.098	ug/L		10/05/23 10:30	10/08/23 10:00	1
Endosulfan I (Alpha)	<0.098		0.098	ug/L		10/05/23 10:30	10/08/23 10:00	1
Endosulfan II (Beta)	<0.098		0.098	ug/L		10/05/23 10:30	10/08/23 10:00	1
Endosulfan sulfate	<0.098		0.098	ug/L		10/05/23 10:30	10/08/23 10:00	1
Endrin	<0.098		0.098	ug/L		10/05/23 10:30	10/08/23 10:00	1
Endrin aldehyde	<0.098		0.098	ug/L		10/05/23 10:30	10/08/23 10:00	1
EPTC	<0.098		0.098	ug/L		10/05/23 10:30	10/08/23 10:00	1

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QC Sample Results

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-65439-1

Method: 525.2 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 380-58067/21-A
Matrix: Water
Analysis Batch: 58448

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 58067

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.098		0.098	ug/L		10/05/23 10:30	10/08/23 10:00	1
Fluorene	<0.049		0.049	ug/L		10/05/23 10:30	10/08/23 10:00	1
gamma-Chlordane	<0.049		0.049	ug/L		10/05/23 10:30	10/08/23 10:00	1
Heptachlor	<0.039		0.039	ug/L		10/05/23 10:30	10/08/23 10:00	1
Heptachlor epoxide (isomer B)	<0.049		0.049	ug/L		10/05/23 10:30	10/08/23 10:00	1
Hexachlorobenzene	<0.049		0.049	ug/L		10/05/23 10:30	10/08/23 10:00	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		10/05/23 10:30	10/08/23 10:00	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		10/05/23 10:30	10/08/23 10:00	1
Isophorone	<0.49		0.49	ug/L		10/05/23 10:30	10/08/23 10:00	1
Lindane	<0.039		0.039	ug/L		10/05/23 10:30	10/08/23 10:00	1
Malathion	<0.098		0.098	ug/L		10/05/23 10:30	10/08/23 10:00	1
Methoxychlor	<0.098		0.098	ug/L		10/05/23 10:30	10/08/23 10:00	1
Metolachlor	<0.049		0.049	ug/L		10/05/23 10:30	10/08/23 10:00	1
Molinate	<0.098		0.098	ug/L		10/05/23 10:30	10/08/23 10:00	1
Naphthalene	<0.30		0.30	ug/L		10/05/23 10:30	10/08/23 10:00	1
Parathion	<0.098		0.098	ug/L		10/05/23 10:30	10/08/23 10:00	1
Pendimethalin (Penoxaline)	<0.098		0.098	ug/L		10/05/23 10:30	10/08/23 10:00	1
Phenanthrene	<0.039		0.039	ug/L		10/05/23 10:30	10/08/23 10:00	1
Propachlor	<0.049		0.049	ug/L		10/05/23 10:30	10/08/23 10:00	1
Pyrene	<0.049		0.049	ug/L		10/05/23 10:30	10/08/23 10:00	1
Simazine	<0.049		0.049	ug/L		10/05/23 10:30	10/08/23 10:00	1
Terbacil	<0.098		0.098	ug/L		10/05/23 10:30	10/08/23 10:00	1
Terbutylazine	<0.098		0.098	ug/L		10/05/23 10:30	10/08/23 10:00	1
Thiobencarb	<0.20		0.20	ug/L		10/05/23 10:30	10/08/23 10:00	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		10/05/23 10:30	10/08/23 10:00	1
trans-Nonachlor	<0.049		0.049	ug/L		10/05/23 10:30	10/08/23 10:00	1
Trifluralin	<0.098		0.098	ug/L		10/05/23 10:30	10/08/23 10:00	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Cyclohexane, 1-methyl-2-propyl-	1.26	T J N	ug/L		2.32	4291-79-6	10/05/23 10:30	10/08/23 10:00	1
Decane	2.55	T J N	ug/L		2.44	124-18-5	10/05/23 10:30	10/08/23 10:00	1
n-Hexadecanoic acid	1.26	T J N	ug/L		5.89	57-10-3	10/05/23 10:30	10/08/23 10:00	1
Octadecanoic acid	0.681	T J N	ug/L		6.58	57-11-4	10/05/23 10:30	10/08/23 10:00	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	99		70 - 130	10/05/23 10:30	10/08/23 10:00	1
Perylene-d12	97		70 - 130	10/05/23 10:30	10/08/23 10:00	1
Triphenylphosphate	113		70 - 130	10/05/23 10:30	10/08/23 10:00	1

Lab Sample ID: LCS 380-58067/23-A
Matrix: Water
Analysis Batch: 58448

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 58067

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	1.97	1.95		ug/L		99	70 - 130
2,4'-DDD	1.97	1.94		ug/L		99	70 - 130
2,4'-DDE	1.97	1.86		ug/L		95	70 - 130
2,4'-DDT	1.97	1.98		ug/L		101	70 - 130

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QC Sample Results

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-65439-1

Method: 525.2 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 380-58067/23-A
Matrix: Water
Analysis Batch: 58448

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 58067

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4-Dinitrotoluene	1.97	1.69		ug/L		86	70 - 130
2,6-Dinitrotoluene	1.97	1.66		ug/L		84	70 - 130
2-Methylnaphthalene	1.97	2.04		ug/L		104	70 - 130
4,4'-DDD	1.97	2.03		ug/L		103	70 - 130
4,4'-DDE	1.97	1.96		ug/L		100	70 - 130
4,4'-DDT	1.97	1.85		ug/L		94	70 - 130
Acenaphthene	1.97	1.75		ug/L		89	70 - 130
Acenaphthylene	1.97	1.73		ug/L		88	70 - 130
Acetochlor	1.97	2.01		ug/L		102	70 - 130
Alachlor	1.97	2.04		ug/L		104	70 - 130
alpha-BHC	1.97	1.90		ug/L		97	70 - 130
alpha-Chlordane	1.97	2.40		ug/L		122	70 - 130
Anthracene	1.97	1.83		ug/L		93	70 - 130
Atrazine	1.97	2.07		ug/L		105	70 - 130
Benz(a)anthracene	1.97	1.98		ug/L		101	70 - 130
Benzo[a]pyrene	1.97	2.06		ug/L		105	70 - 130
Benzo[b]fluoranthene	1.97	2.09		ug/L		106	70 - 130
Benzo[g,h,i]perylene	1.97	2.10		ug/L		107	70 - 130
Benzo[k]fluoranthene	1.97	2.12		ug/L		108	70 - 130
beta-BHC	1.97	1.87		ug/L		95	70 - 130
Bis(2-ethylhexyl) phthalate	1.97	2.79	*+	ug/L		142	70 - 130
Bromacil	1.97	2.22		ug/L		113	70 - 130
Butachlor	1.97	2.19		ug/L		111	70 - 130
Butylbenzylphthalate	1.97	2.07		ug/L		105	70 - 130
Chlorobenzilate	1.97	2.24		ug/L		114	70 - 130
Chloroneb	1.97	2.00		ug/L		102	70 - 130
Chlorothalonil (Draconil, Bravo)	1.97	1.76		ug/L		90	70 - 130
Chlorpyrifos	1.97	2.12		ug/L		108	70 - 130
Chrysene	1.97	2.01		ug/L		102	70 - 130
delta-BHC	1.97	1.82		ug/L		93	70 - 130
Di(2-ethylhexyl)adipate	1.97	2.15		ug/L		109	70 - 130
Dibenz(a,h)anthracene	1.97	2.09		ug/L		106	70 - 130
Diclorvos (DDVP)	1.97	2.07		ug/L		105	70 - 130
Dieldrin	1.97	1.85		ug/L		94	70 - 130
Diethylphthalate	1.97	1.93		ug/L		98	70 - 130
Dimethylphthalate	1.97	1.89		ug/L		96	70 - 130
Di-n-butyl phthalate	3.93	4.03		ug/L		103	70 - 130
Di-n-octyl phthalate	1.97	1.59		ug/L		81	70 - 130
Endosulfan I (Alpha)	1.97	1.98		ug/L		101	70 - 130
Endosulfan II (Beta)	1.97	2.04		ug/L		104	70 - 130
Endosulfan sulfate	1.97	1.99		ug/L		101	70 - 130
Endrin	1.97	1.94		ug/L		99	70 - 130
Endrin aldehyde	1.97	1.88		ug/L		96	70 - 130
EPTC	1.97	2.21		ug/L		112	70 - 130
Fluoranthene	1.97	2.00		ug/L		102	70 - 130
Fluorene	1.97	1.90		ug/L		97	70 - 130
gamma-Chlordane	1.97	2.35		ug/L		120	70 - 130
Heptachlor	1.97	2.05		ug/L		104	70 - 130
Heptachlor epoxide (isomer B)	1.97	2.47		ug/L		126	70 - 130

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QC Sample Results

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-65439-1

Method: 525.2 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 380-58067/23-A
Matrix: Water
Analysis Batch: 58448

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 58067

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Hexachlorobenzene	1.97	1.97		ug/L		100	70 - 130
Hexachlorocyclopentadiene	1.97	1.69		ug/L		86	70 - 130
Indeno[1,2,3-cd]pyrene	1.97	2.05		ug/L		104	70 - 130
Isophorone	1.97	1.83		ug/L		93	70 - 130
Lindane	1.97	1.96		ug/L		100	70 - 130
Malathion	1.97	2.22		ug/L		113	70 - 130
Methoxychlor	1.97	1.95		ug/L		99	70 - 130
Metolachlor	1.97	2.06		ug/L		105	70 - 130
Molinate	1.97	2.04		ug/L		104	70 - 130
Naphthalene	1.97	1.88		ug/L		96	70 - 130
Parathion	1.97	1.86		ug/L		95	70 - 130
Pendimethalin (Penoxaline)	1.97	1.84		ug/L		94	70 - 130
Phenanthrene	1.97	1.82		ug/L		93	70 - 130
Propachlor	1.97	2.07		ug/L		105	70 - 130
Pyrene	1.97	1.98		ug/L		101	70 - 130
Simazine	1.97	2.13		ug/L		108	70 - 130
Terbacil	1.97	1.98		ug/L		101	70 - 130
Terbutylazine	1.97	2.05		ug/L		104	70 - 130
Thiobencarb	1.97	1.94		ug/L		99	70 - 130
trans-Nonachlor	1.97	2.17		ug/L		111	70 - 130
Trifluralin	1.97	1.94		ug/L		99	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Nitro-m-xylene	102		70 - 130
Perylene-d12	101		70 - 130
Triphenylphosphate	114		70 - 130

Lab Sample ID: LCSD 380-58067/24-A
Matrix: Water
Analysis Batch: 58448

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 58067

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	1.97	2.02		ug/L		102	70 - 130	4	20
2,4'-DDD	1.97	2.01		ug/L		102	70 - 130	3	20
2,4'-DDE	1.97	1.93		ug/L		98	70 - 130	4	20
2,4'-DDT	1.97	2.04		ug/L		104	70 - 130	3	20
2,4-Dinitrotoluene	1.97	1.78		ug/L		90	70 - 130	5	20
2,6-Dinitrotoluene	1.97	1.74		ug/L		88	70 - 130	5	20
2-Methylnaphthalene	1.97	2.11		ug/L		107	70 - 130	3	20
4,4'-DDD	1.97	2.11		ug/L		107	70 - 130	4	20
4,4'-DDE	1.97	2.06		ug/L		104	70 - 130	5	20
4,4'-DDT	1.97	1.92		ug/L		97	70 - 130	4	20
Acenaphthene	1.97	1.83		ug/L		93	70 - 130	5	20
Acenaphthylene	1.97	1.79		ug/L		91	70 - 130	4	20
Acetochlor	1.97	2.10		ug/L		106	70 - 130	4	20
Alachlor	1.97	2.14		ug/L		108	70 - 130	5	20
alpha-BHC	1.97	1.95		ug/L		99	70 - 130	3	20
alpha-Chlordane	1.97	2.54		ug/L		129	70 - 130	6	20

Eurofins Eaton Analytical Pomona

QC Sample Results

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-65439-1

Method: 525.2 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 380-58067/24-A

Matrix: Water

Analysis Batch: 58448

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 58067

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	RPD Limit
							Limits	RPD		
Anthracene	1.97	1.89		ug/L		96	70 - 130	3	20	
Atrazine	1.97	2.14		ug/L		109	70 - 130	3	20	
Benz(a)anthracene	1.97	2.11		ug/L		107	70 - 130	7	20	
Benzo[a]pyrene	1.97	2.24		ug/L		114	70 - 130	8	20	
Benzo[b]fluoranthene	1.97	2.16		ug/L		110	70 - 130	4	20	
Benzo[g,h,i]perylene	1.97	2.19		ug/L		111	70 - 130	4	20	
Benzo[k]fluoranthene	1.97	2.26		ug/L		115	70 - 130	6	20	
beta-BHC	1.97	1.93		ug/L		98	70 - 130	3	20	
Bis(2-ethylhexyl) phthalate	1.97	3.27	*+	ug/L		166	70 - 130	16	20	
Bromacil	1.97	2.38		ug/L		121	70 - 130	7	20	
Butachlor	1.97	2.34		ug/L		119	70 - 130	7	20	
Butylbenzylphthalate	1.97	2.19		ug/L		111	70 - 130	6	20	
Chlorobenzilate	1.97	2.37		ug/L		120	70 - 130	5	20	
Chloroneb	1.97	2.00		ug/L		101	70 - 130	0	20	
Chlorothalonil (Draconil, Bravo)	1.97	1.86		ug/L		94	70 - 130	5	20	
Chlorpyrifos	1.97	2.20		ug/L		111	70 - 130	4	20	
Chrysene	1.97	2.10		ug/L		107	70 - 130	5	20	
delta-BHC	1.97	1.90		ug/L		96	70 - 130	4	20	
Di(2-ethylhexyl)adipate	1.97	2.21		ug/L		112	70 - 130	3	20	
Dibenz(a,h)anthracene	1.97	2.15		ug/L		109	70 - 130	3	20	
Diclorvos (DDVP)	1.97	2.17		ug/L		110	70 - 130	5	20	
Dieldrin	1.97	1.97		ug/L		100	70 - 130	6	20	
Diethylphthalate	1.97	1.97		ug/L		100	70 - 130	2	20	
Dimethylphthalate	1.97	1.96		ug/L		99	70 - 130	4	20	
Di-n-butyl phthalate	3.95	4.15		ug/L		105	70 - 130	3	20	
Di-n-octyl phthalate	1.97	1.54		ug/L		78	70 - 130	3	20	
Endosulfan I (Alpha)	1.97	2.09		ug/L		106	70 - 130	5	20	
Endosulfan II (Beta)	1.97	2.14		ug/L		108	70 - 130	5	20	
Endosulfan sulfate	1.97	2.17		ug/L		110	70 - 130	9	20	
Endrin	1.97	2.03		ug/L		103	70 - 130	5	20	
Endrin aldehyde	1.97	2.05		ug/L		104	70 - 130	9	20	
EPTC	1.97	2.34		ug/L		119	70 - 130	6	20	
Fluoranthene	1.97	2.10		ug/L		106	70 - 130	5	20	
Fluorene	1.97	1.99		ug/L		101	70 - 130	5	20	
gamma-Chlordane	1.97	2.43		ug/L		123	70 - 130	3	20	
Heptachlor	1.97	2.09		ug/L		106	70 - 130	2	20	
Heptachlor epoxide (isomer B)	1.97	2.61	*+	ug/L		132	70 - 130	5	20	
Hexachlorobenzene	1.97	2.07		ug/L		105	70 - 130	5	20	
Hexachlorocyclopentadiene	1.97	1.79		ug/L		91	70 - 130	6	20	
Indeno[1,2,3-cd]pyrene	1.97	2.17		ug/L		110	70 - 130	6	20	
Isophorone	1.97	1.90		ug/L		96	70 - 130	3	20	
Lindane	1.97	2.01		ug/L		102	70 - 130	2	20	
Malathion	1.97	2.33		ug/L		118	70 - 130	5	20	
Methoxychlor	1.97	2.06		ug/L		104	70 - 130	6	20	
Metolachlor	1.97	2.18		ug/L		111	70 - 130	6	20	
Molinate	1.97	2.18		ug/L		111	70 - 130	7	20	
Naphthalene	1.97	1.96		ug/L		100	70 - 130	4	20	
Parathion	1.97	1.96		ug/L		99	70 - 130	5	20	
Pendimethalin (Penoxaline)	1.97	1.96		ug/L		99	70 - 130	6	20	

Eurofins Eaton Analytical Pomona

QC Sample Results

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-65439-1

Method: 525.2 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 380-58067/24-A
Matrix: Water
Analysis Batch: 58448

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 58067

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenanthrene	1.97	1.90		ug/L		96	70 - 130	4	20
Propachlor	1.97	2.13		ug/L		108	70 - 130	3	20
Pyrene	1.97	2.09		ug/L		106	70 - 130	5	20
Simazine	1.97	2.21		ug/L		112	70 - 130	4	20
Terbacil	1.97	2.05		ug/L		104	70 - 130	4	20
Terbutylazine	1.97	2.11		ug/L		107	70 - 130	3	20
Thiobencarb	1.97	2.06		ug/L		105	70 - 130	6	20
trans-Nonachlor	1.97	2.21		ug/L		112	70 - 130	2	20
Trifluralin	1.97	2.04		ug/L		103	70 - 130	5	20

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
2-Nitro-m-xylene	102		70 - 130
Perylene-d12	100		70 - 130
Triphenylphosphate	116		70 - 130

Lab Sample ID: MRL 380-58067/22-A
Matrix: Water
Analysis Batch: 58448

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 58067

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	0.0983	0.121		ug/L		123	50 - 150
2,4'-DDD	0.0983	0.133		ug/L		135	50 - 150
2,4'-DDE	0.0983	0.111		ug/L		113	50 - 150
2,4'-DDT	0.0983	0.0919	J	ug/L		93	50 - 150
2,4-Dinitrotoluene	0.0983	0.0700	J	ug/L		71	50 - 150
2,6-Dinitrotoluene	0.0983	0.0739	J	ug/L		75	50 - 150
2-Methylnaphthalene	0.0983	0.121		ug/L		123	50 - 150
4,4'-DDD	0.0983	0.105		ug/L		107	50 - 150
4,4'-DDE	0.0983	0.118		ug/L		120	50 - 150
4,4'-DDT	0.0983	0.116		ug/L		118	50 - 150
Acenaphthene	0.0983	0.0971	J	ug/L		99	50 - 150
Acenaphthylene	0.0983	0.0848	J	ug/L		86	50 - 150
Acetochlor	0.0492	0.0428	J	ug/L		87	50 - 150
Alachlor	0.0492	0.0661		ug/L		134	50 - 150
alpha-BHC	0.0983	0.0963	J	ug/L		98	50 - 150
alpha-Chlordane	0.0246	<0.029		ug/L		113	50 - 150
Anthracene	0.0197	<0.019		ug/L		93	50 - 150
Atrazine	0.0492	0.0524		ug/L		107	50 - 150
Benz(a)anthracene	0.0492	0.0511		ug/L		104	50 - 150
Benzo[a]pyrene	0.0197	0.0192	J	ug/L		98	50 - 150
Benzo[b]fluoranthene	0.0197	0.0206		ug/L		105	50 - 150
Benzo[g,h,i]perylene	0.0492	0.0441	J	ug/L		90	50 - 150
Benzo[k]fluoranthene	0.0197	0.0208		ug/L		106	50 - 150
beta-BHC	0.0983	0.0968	J	ug/L		98	50 - 150
Bis(2-ethylhexyl) phthalate	0.590	1.16	^3+	ug/L		196	50 - 150
Bromacil	0.0983	0.101		ug/L		103	50 - 150
Butachlor	0.0492	0.0612		ug/L		124	50 - 150
Butylbenzylphthalate	0.147	0.166	J	ug/L		113	50 - 150

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QC Sample Results

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-65439-1

Method: 525.2 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MRL 380-58067/22-A
Matrix: Water
Analysis Batch: 58448

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 58067

Analyte	Spike Added	MRL	MRL	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Chlorobenzilate	0.0983	0.120		ug/L		122	50 - 150
Chloroneb	0.0983	0.0987		ug/L		100	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0983	0.155	^3+	ug/L		157	50 - 150
Chlorpyrifos	0.0492	0.0507		ug/L		103	50 - 150
Chrysene	0.0197	0.0212		ug/L		108	50 - 150
delta-BHC	0.0983	0.116		ug/L		118	50 - 150
Di(2-ethylhexyl)adipate	0.295	0.372	J	ug/L		126	50 - 150
Dibenz(a,h)anthracene	0.0492	0.0434	J	ug/L		88	50 - 150
Diclorvos (DDVP)	0.0492	0.0595		ug/L		121	50 - 150
Dieldrin	0.0983	0.114	J	ug/L		116	50 - 150
Diethylphthalate	0.147	0.171	J	ug/L		116	50 - 150
Dimethylphthalate	0.295	0.289	J	ug/L		98	50 - 150
Di-n-butyl phthalate	0.295	0.384	J	ug/L		130	49 - 243
Di-n-octyl phthalate	0.0983	0.113		ug/L		115	50 - 150
Endosulfan I (Alpha)	0.0983	0.0945	J	ug/L		96	50 - 150
Endosulfan II (Beta)	0.0983	0.115		ug/L		117	50 - 150
Endosulfan sulfate	0.0983	0.106		ug/L		108	50 - 150
Endrin	0.0983	0.113		ug/L		114	50 - 150
Endrin aldehyde	0.0983	0.122		ug/L		124	50 - 150
EPTC	0.0983	0.113		ug/L		115	50 - 150
Fluoranthene	0.0492	0.0513	J	ug/L		104	50 - 150
Fluorene	0.0492	<0.049		ug/L		99	50 - 150
gamma-Chlordane	0.0246	0.0295	J	ug/L		120	50 - 150
Heptachlor	0.0393	0.0549		ug/L		140	50 - 150
Heptachlor epoxide (isomer B)	0.0492	0.0536		ug/L		109	50 - 150
Hexachlorobenzene	0.0492	0.0416	J	ug/L		85	50 - 150
Hexachlorocyclopentadiene	0.0492	0.0418	J	ug/L		85	50 - 150
Indeno[1,2,3-cd]pyrene	0.0492	0.0393	J	ug/L		80	50 - 150
Isophorone	0.0983	0.0979	J	ug/L		100	50 - 150
Lindane	0.0393	0.0365	J	ug/L		93	50 - 150
Malathion	0.0983	0.0989		ug/L		101	50 - 150
Methoxychlor	0.0983	0.0991		ug/L		101	50 - 150
Metolachlor	0.0492	0.0570		ug/L		116	50 - 150
Molinate	0.0983	0.102		ug/L		104	50 - 150
Naphthalene	0.0983	0.112	J	ug/L		114	50 - 150
Parathion	0.0983	0.122		ug/L		124	50 - 150
Pendimethalin (Penoxaline)	0.0983	0.104		ug/L		106	50 - 150
Phenanthrene	0.0197	0.0217	J	ug/L		110	50 - 150
Propachlor	0.0492	0.0460	J	ug/L		94	50 - 150
Pyrene	0.0492	0.0498		ug/L		101	50 - 150
Simazine	0.0492	0.0509		ug/L		103	50 - 150
Terbacil	0.0983	0.104		ug/L		105	50 - 150
Terbutylazine	0.0983	0.0964	J	ug/L		98	50 - 150
Thiobencarb	0.0983	0.111	J	ug/L		113	50 - 150
trans-Nonachlor	0.0246	0.0310	J	ug/L		126	50 - 150
Trifluralin	0.0983	0.0813	J	ug/L		83	50 - 150

QC Sample Results

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-65439-1

Method: 525.2 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MRL 380-58067/22-A
Matrix: Water
Analysis Batch: 58448

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 58067

Surrogate	MRL %Recovery	MRL Qualifier	Limits
2-Nitro-m-xylene	102		70 - 130
Perylene-d12	97		70 - 130
Triphenylphosphate	116		70 - 130

Lab Sample ID: 380-65384-DM-1-A MS
Matrix: Water
Analysis Batch: 58448

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 58067

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.097		1.95	2.02		ug/L		104	70 - 130
2,4'-DDD	<0.097		1.95	1.95		ug/L		100	70 - 130
2,4'-DDE	<0.097		1.95	1.86		ug/L		96	70 - 130
2,4'-DDT	<0.097		1.95	1.98		ug/L		102	70 - 130
2,4-Dinitrotoluene	<0.097		1.95	1.82		ug/L		94	70 - 130
2,6-Dinitrotoluene	<0.097		1.95	1.82		ug/L		94	70 - 130
2-Methylnaphthalene	<0.097		1.95	2.11		ug/L		108	70 - 130
4,4'-DDD	<0.097		1.95	2.06		ug/L		106	70 - 130
4,4'-DDE	<0.097		1.95	1.95		ug/L		100	70 - 130
4,4'-DDT	<0.097		1.95	1.85		ug/L		95	70 - 130
Acenaphthene	<0.097		1.95	1.78		ug/L		91	70 - 130
Acenaphthylene	<0.097		1.95	1.71		ug/L		88	70 - 130
Acetochlor	<0.097		1.95	2.07		ug/L		106	70 - 130
Alachlor	<0.049		1.95	2.10		ug/L		108	70 - 130
alpha-BHC	<0.097		1.95	1.98		ug/L		102	70 - 130
alpha-Chlordane	<0.049		1.95	2.46		ug/L		126	70 - 130
Anthracene	<0.019	F1	1.95	0.658	F1	ug/L		34	70 - 130
Atrazine	<0.049		1.95	2.16		ug/L		111	70 - 130
Benz(a)anthracene	<0.049		1.95	1.73		ug/L		89	70 - 130
Benzo[a]pyrene	<0.019	F1	1.95	1.33	F1	ug/L		68	70 - 130
Benzo[b]fluoranthene	<0.019		1.95	2.11		ug/L		108	70 - 130
Benzo[g,h,i]perylene	<0.049		1.95	1.98		ug/L		102	70 - 130
Benzo[k]fluoranthene	<0.019		1.95	2.08		ug/L		107	70 - 130
beta-BHC	<0.097		1.95	1.94		ug/L		100	70 - 130
Bis(2-ethylhexyl) phthalate	<0.58	F1 B ^3+ *+	1.95	4.01	F1	ug/L		206	70 - 130
Bromacil	<0.097		1.95	2.41		ug/L		124	70 - 130
Butachlor	<0.049		1.95	2.31		ug/L		119	70 - 130
Butylbenzylphthalate	<0.49		1.95	2.20		ug/L		113	70 - 130
Chlorobenzilate	<0.097		1.95	2.40		ug/L		123	70 - 130
Chloroneb	<0.097		1.95	2.00		ug/L		103	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.097	^3+	1.95	1.85		ug/L		95	70 - 130
Chlorpyrifos	<0.049		1.95	2.14		ug/L		110	70 - 130
Chrysene	<0.019		1.95	2.02		ug/L		104	70 - 130
delta-BHC	<0.097		1.95	1.88		ug/L		97	70 - 130
Di(2-ethylhexyl)adipate	<0.58		1.95	2.02		ug/L		101	70 - 130
Dibenz(a,h)anthracene	<0.049		1.95	1.97		ug/L		101	70 - 130
Diclorvos (DDVP)	<0.049		1.95	2.20		ug/L		113	70 - 130
Dieldrin	<0.19		1.95	1.89		ug/L		97	70 - 130
Diethylphthalate	<0.49		1.95	1.98		ug/L		102	70 - 130

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QC Sample Results

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-65439-1

Method: 525.2 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 380-65471-AX-1-A DU
Matrix: Water
Analysis Batch: 58448

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 58067

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
2,4'-DDE	<0.099		<0.098		ug/L		NC	20
2,4'-DDT	<0.099		<0.098		ug/L		NC	20
2,4-Dinitrotoluene	<0.099		<0.098		ug/L		NC	20
2,6-Dinitrotoluene	<0.099		<0.098		ug/L		NC	20
2-Methylnaphthalene	<0.099		<0.098		ug/L		NC	20
4,4'-DDD	<0.099		<0.098		ug/L		NC	20
4,4'-DDE	<0.099		<0.098		ug/L		NC	20
4,4'-DDT	<0.099		<0.098		ug/L		NC	20
Acenaphthene	<0.099		<0.098		ug/L		NC	20
Acenaphthylene	<0.099		<0.098		ug/L		NC	20
Acetochlor	<0.099		<0.098		ug/L		NC	20
Alachlor	<0.050		<0.049		ug/L		NC	20
alpha-BHC	<0.099		<0.098		ug/L		NC	20
alpha-Chlordane	<0.050		<0.049		ug/L		NC	20
Anthracene	<0.020		<0.020		ug/L		NC	20
Atrazine	<0.050		<0.049		ug/L		NC	20
Benz(a)anthracene	<0.050		<0.049		ug/L		NC	20
Benzo[a]pyrene	<0.020		<0.020		ug/L		NC	20
Benzo[b]fluoranthene	<0.020		<0.020		ug/L		NC	20
Benzo[g,h,i]perylene	<0.050		<0.049		ug/L		NC	20
Benzo[k]fluoranthene	<0.020		<0.020		ug/L		NC	20
beta-BHC	<0.099		<0.098		ug/L		NC	20
Bis(2-ethylhexyl) phthalate	<0.59	B ^3+ *+	1.27	B *+	ug/L		NC	20
Bromacil	<0.099		<0.098		ug/L		NC	20
Butachlor	<0.050		<0.049		ug/L		NC	20
Butylbenzylphthalate	<0.50		<0.49		ug/L		NC	20
Chlorobenzilate	<0.099		<0.098		ug/L		NC	20
Chloroneb	<0.099		<0.098		ug/L		NC	20
Chlorothalonil (Draconil, Bravo)	<0.099	^3+	<0.098		ug/L		NC	20
Chlorpyrifos	<0.050		<0.049		ug/L		NC	20
Chrysene	<0.020		<0.020		ug/L		NC	20
delta-BHC	<0.099		<0.098		ug/L		NC	20
Di(2-ethylhexyl)adipate	<0.59		<0.59		ug/L		NC	20
Dibenz(a,h)anthracene	<0.050		<0.049		ug/L		NC	20
Diclorvos (DDVP)	<0.050		<0.049		ug/L		NC	20
Dieldrin	<0.20		<0.20		ug/L		NC	20
Diethylphthalate	<0.50		<0.49		ug/L		NC	20
Dimethylphthalate	<0.50		<0.49		ug/L		NC	20
Di-n-butyl phthalate	<0.99		<0.98		ug/L		NC	20
Di-n-octyl phthalate	<0.099		<0.098		ug/L		NC	20
Endosulfan I (Alpha)	<0.099		<0.098		ug/L		NC	20
Endosulfan II (Beta)	<0.099		<0.098		ug/L		NC	20
Endosulfan sulfate	<0.099		<0.098		ug/L		NC	20
Endrin	<0.099		<0.098		ug/L		NC	20
Endrin aldehyde	<0.099		<0.098		ug/L		NC	20
EPTC	<0.099		<0.098		ug/L		NC	20
Fluoranthene	<0.099		<0.098		ug/L		NC	20
Fluorene	<0.050		<0.049		ug/L		NC	20
gamma-Chlordane	<0.050		<0.049		ug/L		NC	20

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QC Sample Results

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-65439-1

Method: 525.2 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 380-65471-AX-1-A DU
Matrix: Water
Analysis Batch: 58448

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 58067

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Heptachlor	<0.040		<0.039		ug/L		NC	20
Heptachlor epoxide (isomer B)	<0.050	*+	<0.049	*+	ug/L		NC	20
Hexachlorobenzene	<0.050		<0.049		ug/L		NC	20
Hexachlorocyclopentadiene	<0.050		<0.049		ug/L		NC	20
Indeno[1,2,3-cd]pyrene	<0.050		<0.049		ug/L		NC	20
Isophorone	<0.50		<0.49		ug/L		NC	20
Lindane	<0.040		<0.039		ug/L		NC	20
Malathion	<0.099		<0.098		ug/L		NC	20
Methoxychlor	<0.099		<0.098		ug/L		NC	20
Metolachlor	<0.050		<0.049		ug/L		NC	20
Molinate	<0.099		<0.098		ug/L		NC	20
Naphthalene	<0.30		<0.29		ug/L		NC	20
Parathion	<0.099		<0.098		ug/L		NC	20
Pendimethalin (Penoxaline)	<0.099		<0.098		ug/L		NC	20
Phenanthrene	<0.040		<0.039		ug/L		NC	20
Propachlor	<0.050		<0.049		ug/L		NC	20
Pyrene	<0.050		<0.049		ug/L		NC	20
Simazine	<0.050		<0.049		ug/L		NC	20
Terbacil	<0.099		<0.098		ug/L		NC	20
Terbutylazine	<0.099		<0.098		ug/L		NC	20
Thiobencarb	<0.20		<0.20		ug/L		NC	20
Total Permethrin (mixed isomers)	<0.20		<0.20		ug/L		NC	20
trans-Nonachlor	<0.050		<0.049		ug/L		NC	20
Trifluralin	<0.099		<0.098		ug/L		NC	20

Surrogate	DU	DU	Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	101		70 - 130
Perylene-d12	90		70 - 130
Triphenylphosphate	113		70 - 130

Lab Sample ID: MB 380-58918/21-A
Matrix: Water
Analysis Batch: 59135

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 58918

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1-Methylnaphthalene	<0.098		0.098	ug/L		10/11/23 14:31	10/12/23 16:44	1
2,4'-DDD	<0.098		0.098	ug/L		10/11/23 14:31	10/12/23 16:44	1
2,4'-DDE	<0.098		0.098	ug/L		10/11/23 14:31	10/12/23 16:44	1
2,4'-DDT	<0.098		0.098	ug/L		10/11/23 14:31	10/12/23 16:44	1
2,4-Dinitrotoluene	<0.098		0.098	ug/L		10/11/23 14:31	10/12/23 16:44	1
2,6-Dinitrotoluene	<0.098		0.098	ug/L		10/11/23 14:31	10/12/23 16:44	1
2-Methylnaphthalene	<0.098		0.098	ug/L		10/11/23 14:31	10/12/23 16:44	1
4,4'-DDD	<0.098		0.098	ug/L		10/11/23 14:31	10/12/23 16:44	1
4,4'-DDE	<0.098		0.098	ug/L		10/11/23 14:31	10/12/23 16:44	1
4,4'-DDT	<0.098		0.098	ug/L		10/11/23 14:31	10/12/23 16:44	1
Acenaphthene	<0.098		0.098	ug/L		10/11/23 14:31	10/12/23 16:44	1
Acenaphthylene	<0.098		0.098	ug/L		10/11/23 14:31	10/12/23 16:44	1
Acetochlor	<0.098		0.098	ug/L		10/11/23 14:31	10/12/23 16:44	1

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QC Sample Results

Client: City & County of Honolulu
 Project/Site: RED-HILL

Job ID: 380-65439-1

Method: 525.2 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 380-58918/21-A
Matrix: Water
Analysis Batch: 59135

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 58918

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alachlor	<0.049		0.049	ug/L		10/11/23 14:31	10/12/23 16:44	1
alpha-BHC	<0.098		0.098	ug/L		10/11/23 14:31	10/12/23 16:44	1
alpha-Chlordane	<0.049		0.049	ug/L		10/11/23 14:31	10/12/23 16:44	1
Anthracene	<0.020		0.020	ug/L		10/11/23 14:31	10/12/23 16:44	1
Atrazine	<0.049		0.049	ug/L		10/11/23 14:31	10/12/23 16:44	1
Benz(a)anthracene	<0.049		0.049	ug/L		10/11/23 14:31	10/12/23 16:44	1
Benzo[a]pyrene	<0.020		0.020	ug/L		10/11/23 14:31	10/12/23 16:44	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		10/11/23 14:31	10/12/23 16:44	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		10/11/23 14:31	10/12/23 16:44	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		10/11/23 14:31	10/12/23 16:44	1
beta-BHC	<0.098		0.098	ug/L		10/11/23 14:31	10/12/23 16:44	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		10/11/23 14:31	10/12/23 16:44	1
Bromacil	<0.098		0.098	ug/L		10/11/23 14:31	10/12/23 16:44	1
Butachlor	<0.049		0.049	ug/L		10/11/23 14:31	10/12/23 16:44	1
Butylbenzylphthalate	<0.49		0.49	ug/L		10/11/23 14:31	10/12/23 16:44	1
Chlorobenzilate	<0.098		0.098	ug/L		10/11/23 14:31	10/12/23 16:44	1
Chloroneb	<0.098		0.098	ug/L		10/11/23 14:31	10/12/23 16:44	1
Chlorothalonil (Draconil, Bravo)	<0.098		0.098	ug/L		10/11/23 14:31	10/12/23 16:44	1
Chlorpyrifos	<0.049		0.049	ug/L		10/11/23 14:31	10/12/23 16:44	1
Chrysene	<0.020		0.020	ug/L		10/11/23 14:31	10/12/23 16:44	1
delta-BHC	<0.098		0.098	ug/L		10/11/23 14:31	10/12/23 16:44	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		10/11/23 14:31	10/12/23 16:44	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		10/11/23 14:31	10/12/23 16:44	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		10/11/23 14:31	10/12/23 16:44	1
Dieldrin	<0.20		0.20	ug/L		10/11/23 14:31	10/12/23 16:44	1
Diethylphthalate	<0.49		0.49	ug/L		10/11/23 14:31	10/12/23 16:44	1
Dimethylphthalate	<0.49		0.49	ug/L		10/11/23 14:31	10/12/23 16:44	1
Di-n-butyl phthalate	<0.98		0.98	ug/L		10/11/23 14:31	10/12/23 16:44	1
Di-n-octyl phthalate	<0.098		0.098	ug/L		10/11/23 14:31	10/12/23 16:44	1
Endosulfan I (Alpha)	<0.098		0.098	ug/L		10/11/23 14:31	10/12/23 16:44	1
Endosulfan II (Beta)	<0.098		0.098	ug/L		10/11/23 14:31	10/12/23 16:44	1
Endosulfan sulfate	<0.098		0.098	ug/L		10/11/23 14:31	10/12/23 16:44	1
Endrin	<0.098		0.098	ug/L		10/11/23 14:31	10/12/23 16:44	1
Endrin aldehyde	<0.098		0.098	ug/L		10/11/23 14:31	10/12/23 16:44	1
EPTC	<0.098		0.098	ug/L		10/11/23 14:31	10/12/23 16:44	1
Fluoranthene	<0.098		0.098	ug/L		10/11/23 14:31	10/12/23 16:44	1
Fluorene	<0.049		0.049	ug/L		10/11/23 14:31	10/12/23 16:44	1
gamma-Chlordane	<0.049		0.049	ug/L		10/11/23 14:31	10/12/23 16:44	1
Heptachlor	<0.039		0.039	ug/L		10/11/23 14:31	10/12/23 16:44	1
Heptachlor epoxide (isomer B)	<0.049		0.049	ug/L		10/11/23 14:31	10/12/23 16:44	1
Hexachlorobenzene	<0.049		0.049	ug/L		10/11/23 14:31	10/12/23 16:44	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		10/11/23 14:31	10/12/23 16:44	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		10/11/23 14:31	10/12/23 16:44	1
Isophorone	<0.49		0.49	ug/L		10/11/23 14:31	10/12/23 16:44	1
Lindane	<0.039		0.039	ug/L		10/11/23 14:31	10/12/23 16:44	1
Malathion	<0.098		0.098	ug/L		10/11/23 14:31	10/12/23 16:44	1
Methoxychlor	<0.098		0.098	ug/L		10/11/23 14:31	10/12/23 16:44	1
Metolachlor	<0.049		0.049	ug/L		10/11/23 14:31	10/12/23 16:44	1
Molinate	<0.098		0.098	ug/L		10/11/23 14:31	10/12/23 16:44	1

Eurofins Eaton Analytical Pomona

QC Sample Results

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-65439-1

Method: 525.2 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 380-58918/21-A
Matrix: Water
Analysis Batch: 59135

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 58918

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	<0.29		0.29	ug/L		10/11/23 14:31	10/12/23 16:44	1
Parathion	<0.098		0.098	ug/L		10/11/23 14:31	10/12/23 16:44	1
Pendimethalin (Penoxaline)	<0.098		0.098	ug/L		10/11/23 14:31	10/12/23 16:44	1
Phenanthrene	<0.039		0.039	ug/L		10/11/23 14:31	10/12/23 16:44	1
Propachlor	<0.049		0.049	ug/L		10/11/23 14:31	10/12/23 16:44	1
Pyrene	<0.049		0.049	ug/L		10/11/23 14:31	10/12/23 16:44	1
Simazine	<0.049		0.049	ug/L		10/11/23 14:31	10/12/23 16:44	1
Terbacil	<0.098		0.098	ug/L		10/11/23 14:31	10/12/23 16:44	1
Terbuthylazine	<0.098		0.098	ug/L		10/11/23 14:31	10/12/23 16:44	1
Thiobencarb	<0.20		0.20	ug/L		10/11/23 14:31	10/12/23 16:44	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		10/11/23 14:31	10/12/23 16:44	1
trans-Nonachlor	<0.049		0.049	ug/L		10/11/23 14:31	10/12/23 16:44	1
Trifluralin	<0.098		0.098	ug/L		10/11/23 14:31	10/12/23 16:44	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
2-Pentenal, (E)-	0.980	T J N	ug/L		2.27	1576-87-0	10/11/23 14:31	10/12/23 16:44	1
Cyclohexane, 1-methyl-2-propyl-	1.13	T J N	ug/L		2.34	4291-79-6	10/11/23 14:31	10/12/23 16:44	1
Decane	2.23	T J N	ug/L		2.45	124-18-5	10/11/23 14:31	10/12/23 16:44	1
Decane, 2-methyl-	0.842	T J N	ug/L		2.62	6975-98-0	10/11/23 14:31	10/12/23 16:44	1
Tetradecanoic acid	1.15	T J N	ug/L		5.85	544-63-8	10/11/23 14:31	10/12/23 16:44	1
Octadecanoic acid	0.589	T J N	ug/L		6.54	57-11-4	10/11/23 14:31	10/12/23 16:44	1
9-Octadecenamamide, (Z)-	0.517	T J N	ug/L		10.17	301-02-0	10/11/23 14:31	10/12/23 16:44	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	102		70 - 130	10/11/23 14:31	10/12/23 16:44	1
Perylene-d12	84		70 - 130	10/11/23 14:31	10/12/23 16:44	1
Triphenylphosphate	106		70 - 130	10/11/23 14:31	10/12/23 16:44	1

Lab Sample ID: LCS 380-58918/23-A
Matrix: Water
Analysis Batch: 59135

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 58918

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	1.97	2.13		ug/L		108	70 - 130
2,4'-DDD	1.97	2.22		ug/L		113	70 - 130
2,4'-DDE	1.97	2.27		ug/L		115	70 - 130
2,4'-DDT	1.97	2.49		ug/L		126	70 - 130
2,4-Dinitrotoluene	1.97	2.12		ug/L		107	70 - 130
2,6-Dinitrotoluene	1.97	2.05		ug/L		104	70 - 130
2-Methylnaphthalene	1.97	2.16		ug/L		110	70 - 130
4,4'-DDD	1.97	2.38		ug/L		121	70 - 130
4,4'-DDE	1.97	2.10		ug/L		107	70 - 130
4,4'-DDT	1.97	2.32		ug/L		118	70 - 130
Acenaphthene	1.97	2.07		ug/L		105	70 - 130
Acenaphthylene	1.97	2.08		ug/L		106	70 - 130
Acetochlor	1.97	2.32		ug/L		118	70 - 130
Alachlor	1.97	2.18		ug/L		111	70 - 130
alpha-BHC	1.97	2.06		ug/L		104	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-65439-1

Method: 525.2 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 380-58918/23-A
Matrix: Water
Analysis Batch: 59135

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 58918

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
alpha-Chlordane	1.97	1.94		ug/L		98	70 - 130
Anthracene	1.97	2.09		ug/L		106	70 - 130
Atrazine	1.97	2.37		ug/L		120	70 - 130
Benz(a)anthracene	1.97	2.26		ug/L		115	70 - 130
Benzo[a]pyrene	1.97	2.48		ug/L		126	70 - 130
Benzo[b]fluoranthene	1.97	2.52		ug/L		128	70 - 130
Benzo[g,h,i]perylene	1.97	2.24		ug/L		113	70 - 130
Benzo[k]fluoranthene	1.97	2.58	*+	ug/L		131	70 - 130
beta-BHC	1.97	2.10		ug/L		106	70 - 130
Bis(2-ethylhexyl) phthalate	1.97	2.48		ug/L		126	70 - 130
Bromacil	1.97	2.18		ug/L		111	70 - 130
Butachlor	1.97	2.27		ug/L		115	70 - 130
Butylbenzylphthalate	1.97	2.23		ug/L		113	70 - 130
Chlorobenzilate	1.97	2.12		ug/L		107	70 - 130
Chloroneb	1.97	2.08		ug/L		105	70 - 130
Chlorothalonil (Draconil, Bravo)	1.97	2.12		ug/L		108	70 - 130
Chlorpyrifos	1.97	2.31		ug/L		117	70 - 130
Chrysene	1.97	2.11		ug/L		107	70 - 130
delta-BHC	1.97	1.96		ug/L		99	70 - 130
Di(2-ethylhexyl)adipate	1.97	2.28		ug/L		116	70 - 130
Dibenz(a,h)anthracene	1.97	2.30		ug/L		117	70 - 130
Diclorvos (DDVP)	1.97	2.35		ug/L		119	70 - 130
Dieldrin	1.97	2.21		ug/L		112	70 - 130
Diethylphthalate	1.97	2.21		ug/L		112	70 - 130
Dimethylphthalate	1.97	2.20		ug/L		112	70 - 130
Di-n-butyl phthalate	3.94	4.42		ug/L		112	70 - 130
Di-n-octyl phthalate	1.97	1.95		ug/L		99	70 - 130
Endosulfan I (Alpha)	1.97	1.93		ug/L		98	70 - 130
Endosulfan II (Beta)	1.97	2.05		ug/L		104	70 - 130
Endosulfan sulfate	1.97	2.27		ug/L		115	70 - 130
Endrin	1.97	2.43		ug/L		123	70 - 130
Endrin aldehyde	1.97	1.68		ug/L		85	70 - 130
EPTC	1.97	2.18		ug/L		111	70 - 130
Fluoranthene	1.97	2.09		ug/L		106	70 - 130
Fluorene	1.97	2.19		ug/L		111	70 - 130
gamma-Chlordane	1.97	1.96		ug/L		99	70 - 130
Heptachlor	1.97	2.40		ug/L		122	70 - 130
Heptachlor epoxide (isomer B)	1.97	1.93		ug/L		98	70 - 130
Hexachlorobenzene	1.97	2.08		ug/L		105	70 - 130
Hexachlorocyclopentadiene	1.97	2.06		ug/L		104	70 - 130
Indeno[1,2,3-cd]pyrene	1.97	2.23		ug/L		113	70 - 130
Isophorone	1.97	2.08		ug/L		105	70 - 130
Lindane	1.97	2.04		ug/L		104	70 - 130
Malathion	1.97	2.21		ug/L		112	70 - 130
Methoxychlor	1.97	2.35		ug/L		119	70 - 130
Metolachlor	1.97	2.36		ug/L		120	70 - 130
Molinate	1.97	2.26		ug/L		115	70 - 130
Naphthalene	1.97	2.08		ug/L		106	70 - 130
Parathion	1.97	2.51		ug/L		128	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-65439-1

Method: 525.2 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 380-58918/23-A
Matrix: Water
Analysis Batch: 59135

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 58918

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Pendimethalin (Penoxaline)	1.97	2.35		ug/L		119	70 - 130
Phenanthrene	1.97	1.93		ug/L		98	70 - 130
Propachlor	1.97	2.39		ug/L		121	70 - 130
Pyrene	1.97	2.17		ug/L		110	70 - 130
Simazine	1.97	2.32		ug/L		118	70 - 130
Terbacil	1.97	2.15		ug/L		109	70 - 130
Terbutylazine	1.97	2.32		ug/L		118	70 - 130
Thiobencarb	1.97	2.42		ug/L		123	70 - 130
trans-Nonachlor	1.97	2.10		ug/L		107	70 - 130
Trifluralin	1.97	2.15		ug/L		109	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Nitro-m-xylene	101		70 - 130
Perylene-d12	99		70 - 130
Triphenylphosphate	100		70 - 130

Lab Sample ID: LCSD 380-58918/24-A
Matrix: Water
Analysis Batch: 59135

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 58918

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	1.97	2.16		ug/L		109	70 - 130	1	20
2,4'-DDD	1.97	2.29		ug/L		116	70 - 130	3	20
2,4'-DDE	1.97	2.31		ug/L		117	70 - 130	2	20
2,4'-DDT	1.97	2.55		ug/L		129	70 - 130	2	20
2,4-Dinitrotoluene	1.97	2.18		ug/L		110	70 - 130	3	20
2,6-Dinitrotoluene	1.97	2.13		ug/L		108	70 - 130	4	20
2-Methylnaphthalene	1.97	2.19		ug/L		111	70 - 130	1	20
4,4'-DDD	1.97	2.52		ug/L		128	70 - 130	6	20
4,4'-DDE	1.97	2.14		ug/L		108	70 - 130	2	20
4,4'-DDT	1.97	2.39		ug/L		121	70 - 130	3	20
Acenaphthene	1.97	2.07		ug/L		105	70 - 130	0	20
Acenaphthylene	1.97	2.09		ug/L		106	70 - 130	0	20
Acetochlor	1.97	2.39		ug/L		121	70 - 130	3	20
Alachlor	1.97	2.18		ug/L		111	70 - 130	0	20
alpha-BHC	1.97	2.05		ug/L		104	70 - 130	0	20
alpha-Chlordane	1.97	1.99		ug/L		101	70 - 130	3	20
Anthracene	1.97	2.13		ug/L		108	70 - 130	2	20
Atrazine	1.97	2.36		ug/L		120	70 - 130	1	20
Benz(a)anthracene	1.97	2.40		ug/L		122	70 - 130	6	20
Benzo[a]pyrene	1.97	2.50		ug/L		127	70 - 130	1	20
Benzo[b]fluoranthene	1.97	2.49		ug/L		127	70 - 130	1	20
Benzo[g,h,i]perylene	1.97	2.17		ug/L		110	70 - 130	3	20
Benzo[k]fluoranthene	1.97	2.51		ug/L		127	70 - 130	3	20
beta-BHC	1.97	2.01		ug/L		102	70 - 130	4	20
Bis(2-ethylhexyl) phthalate	1.97	2.09		ug/L		106	70 - 130	17	20
Bromacil	1.97	2.37		ug/L		120	70 - 130	8	20
Butachlor	1.97	2.36		ug/L		120	70 - 130	4	20

Eurofins Eaton Analytical Pomona

QC Sample Results

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-65439-1

Method: 525.2 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 380-58918/24-A

Matrix: Water

Analysis Batch: 59135

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 58918

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	RPD Limit
							Limits	RPD		
Butylbenzylphthalate	1.97	2.36		ug/L		120	70 - 130	6	20	
Chlorobenzilate	1.97	2.27		ug/L		115	70 - 130	7	20	
Chloroneb	1.97	2.07		ug/L		105	70 - 130	1	20	
Chlorothalonil (Draconil, Bravo)	1.97	2.20		ug/L		111	70 - 130	3	20	
Chlorpyrifos	1.97	2.35		ug/L		119	70 - 130	2	20	
Chrysene	1.97	2.19		ug/L		111	70 - 130	4	20	
delta-BHC	1.97	2.00		ug/L		102	70 - 130	2	20	
Di(2-ethylhexyl)adipate	1.97	2.22		ug/L		113	70 - 130	3	20	
Dibenz(a,h)anthracene	1.97	2.19		ug/L		111	70 - 130	5	20	
Diclorvos (DDVP)	1.97	2.37		ug/L		120	70 - 130	1	20	
Dieldrin	1.97	2.27		ug/L		115	70 - 130	3	20	
Diethylphthalate	1.97	2.15		ug/L		109	70 - 130	3	20	
Dimethylphthalate	1.97	2.22		ug/L		113	70 - 130	1	20	
Di-n-butyl phthalate	3.94	4.51		ug/L		114	70 - 130	2	20	
Di-n-octyl phthalate	1.97	1.76		ug/L		89	70 - 130	11	20	
Endosulfan I (Alpha)	1.97	1.97		ug/L		100	70 - 130	2	20	
Endosulfan II (Beta)	1.97	2.25		ug/L		114	70 - 130	9	20	
Endosulfan sulfate	1.97	2.38		ug/L		120	70 - 130	4	20	
Endrin	1.97	2.50		ug/L		127	70 - 130	3	20	
Endrin aldehyde	1.97	1.80		ug/L		91	70 - 130	7	20	
EPTC	1.97	2.21		ug/L		112	70 - 130	1	20	
Fluoranthene	1.97	2.17		ug/L		110	70 - 130	4	20	
Fluorene	1.97	2.16		ug/L		110	70 - 130	1	20	
gamma-Chlordane	1.97	1.92		ug/L		97	70 - 130	2	20	
Heptachlor	1.97	2.40		ug/L		122	70 - 130	0	20	
Heptachlor epoxide (isomer B)	1.97	1.98		ug/L		100	70 - 130	2	20	
Hexachlorobenzene	1.97	2.05		ug/L		104	70 - 130	2	20	
Hexachlorocyclopentadiene	1.97	2.14		ug/L		108	70 - 130	4	20	
Indeno[1,2,3-cd]pyrene	1.97	2.19		ug/L		111	70 - 130	2	20	
Isophorone	1.97	2.13		ug/L		108	70 - 130	3	20	
Lindane	1.97	2.00		ug/L		102	70 - 130	2	20	
Malathion	1.97	2.19		ug/L		111	70 - 130	1	20	
Methoxychlor	1.97	2.40		ug/L		122	70 - 130	2	20	
Metolachlor	1.97	2.41		ug/L		122	70 - 130	2	20	
Molinate	1.97	2.23		ug/L		113	70 - 130	1	20	
Naphthalene	1.97	2.13		ug/L		108	70 - 130	2	20	
Parathion	1.97	2.54		ug/L		129	70 - 130	1	20	
Pendimethalin (Penoxaline)	1.97	2.39		ug/L		121	70 - 130	2	20	
Phenanthrene	1.97	2.02		ug/L		102	70 - 130	4	20	
Propachlor	1.97	2.39		ug/L		121	70 - 130	0	20	
Pyrene	1.97	2.24		ug/L		114	70 - 130	3	20	
Simazine	1.97	2.39		ug/L		121	70 - 130	3	20	
Terbacil	1.97	2.32		ug/L		118	70 - 130	8	20	
Terbutylazine	1.97	2.31		ug/L		117	70 - 130	0	20	
Thiobencarb	1.97	2.45		ug/L		124	70 - 130	1	20	
trans-Nonachlor	1.97	2.07		ug/L		105	70 - 130	1	20	
Trifluralin	1.97	2.12		ug/L		107	70 - 130	1	20	

QC Sample Results

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-65439-1

Method: 525.2 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 380-58918/24-A
Matrix: Water
Analysis Batch: 59135

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 58918

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	100		70 - 130
Perylene-d12	96		70 - 130
Triphenylphosphate	107		70 - 130

Lab Sample ID: MRL 380-58918/22-A
Matrix: Water
Analysis Batch: 59135

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 58918

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	0.0988	0.119		ug/L		121	50 - 150
2,4'-DDD	0.0988	0.144		ug/L		145	50 - 150
2,4'-DDE	0.0988	0.121		ug/L		122	50 - 150
2,4'-DDT	0.0988	0.0952	J	ug/L		96	50 - 150
2,4-Dinitrotoluene	0.0988	0.113		ug/L		115	50 - 150
2,6-Dinitrotoluene	0.0988	0.122		ug/L		124	50 - 150
2-Methylnaphthalene	0.0988	0.116		ug/L		118	50 - 150
4,4'-DDD	0.0988	0.111		ug/L		112	50 - 150
4,4'-DDE	0.0988	0.0991		ug/L		100	50 - 150
4,4'-DDT	0.0988	0.101		ug/L		102	50 - 150
Acenaphthene	0.0988	0.108		ug/L		110	50 - 150
Acenaphthylene	0.0988	0.0980	J	ug/L		99	50 - 150
Acetochlor	0.0494	0.0520	J	ug/L		105	50 - 150
Alachlor	0.0494	0.0595		ug/L		120	50 - 150
alpha-BHC	0.0988	0.107		ug/L		108	50 - 150
alpha-Chlordane	0.0247	<0.029		ug/L		93	50 - 150
Anthracene	0.0198	0.0225		ug/L		114	50 - 150
Atrazine	0.0494	0.0493		ug/L		100	50 - 150
Benz(a)anthracene	0.0494	0.0447	J	ug/L		91	50 - 150
Benzo[a]pyrene	0.0198	0.0183	J	ug/L		93	50 - 150
Benzo[b]fluoranthene	0.0198	0.0212		ug/L		107	50 - 150
Benzo[g,h,i]perylene	0.0494	0.0402	J	ug/L		81	50 - 150
Benzo[k]fluoranthene	0.0198	0.0199	J	ug/L		101	50 - 150
beta-BHC	0.0988	0.103		ug/L		104	50 - 150
Bis(2-ethylhexyl) phthalate	0.593	1.05	^3+	ug/L		178	50 - 150
Bromacil	0.0988	0.128		ug/L		129	50 - 150
Butachlor	0.0494	0.0818	^3+	ug/L		166	50 - 150
Butylbenzylphthalate	0.148	0.191	J	ug/L		129	50 - 150
Chlorobenzilate	0.0988	0.126		ug/L		128	50 - 150
Chloroneb	0.0988	0.0997		ug/L		101	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0988	0.162	^3+	ug/L		164	50 - 150
Chlorpyrifos	0.0494	0.0545		ug/L		110	50 - 150
Chrysene	0.0198	0.0206		ug/L		104	50 - 150
delta-BHC	0.0988	0.116		ug/L		118	50 - 150
Di(2-ethylhexyl)adipate	0.296	0.544	J ^3+	ug/L		184	50 - 150
Dibenz(a,h)anthracene	0.0494	0.0375	J	ug/L		76	50 - 150
Diclorvos (DDVP)	0.0494	0.0635		ug/L		129	50 - 150
Dieldrin	0.0988	0.126	J	ug/L		127	50 - 150
Diethylphthalate	0.148	0.190	J	ug/L		128	50 - 150

QC Sample Results

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-65439-1

Method: 525.2 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MRL 380-58918/22-A
Matrix: Water
Analysis Batch: 59135

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 58918

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Dimethylphthalate	0.296	0.316	J	ug/L		107	50 - 150
Di-n-butyl phthalate	0.296	0.418	J	ug/L		141	49 - 243
Di-n-octyl phthalate	0.0988	0.0963	J	ug/L		98	50 - 150
Endosulfan I (Alpha)	0.0988	0.101		ug/L		102	50 - 150
Endosulfan II (Beta)	0.0988	0.119		ug/L		120	50 - 150
Endosulfan sulfate	0.0988	0.122		ug/L		123	50 - 150
Endrin	0.0988	0.154	^3+	ug/L		156	50 - 150
Endrin aldehyde	0.0988	<0.083		ug/L		71	50 - 150
EPTC	0.0988	0.138		ug/L		140	50 - 150
Fluoranthene	0.0494	0.0540	J	ug/L		109	50 - 150
Fluorene	0.0494	0.0548		ug/L		111	50 - 150
gamma-Chlordane	0.0247	0.0250	J	ug/L		101	50 - 150
Heptachlor	0.0395	0.0623	^3+	ug/L		158	50 - 150
Heptachlor epoxide (isomer B)	0.0494	0.0512		ug/L		104	50 - 150
Hexachlorobenzene	0.0494	0.0529		ug/L		107	50 - 150
Hexachlorocyclopentadiene	0.0494	0.0456	J	ug/L		92	50 - 150
Indeno[1,2,3-cd]pyrene	0.0494	0.0366	J	ug/L		74	50 - 150
Isophorone	0.0988	0.105	J	ug/L		106	50 - 150
Lindane	0.0395	0.0441		ug/L		112	50 - 150
Malathion	0.0988	0.132		ug/L		133	50 - 150
Methoxychlor	0.0988	0.0954	J	ug/L		97	50 - 150
Metolachlor	0.0494	0.0637		ug/L		129	50 - 150
Molinate	0.0988	0.136		ug/L		138	50 - 150
Naphthalene	0.0988	0.119	J	ug/L		121	50 - 150
Parathion	0.0988	0.133		ug/L		134	50 - 150
Pendimethalin (Penoxaline)	0.0988	0.133		ug/L		135	50 - 150
Phenanthrene	0.0198	0.0244	J	ug/L		124	50 - 150
Propachlor	0.0494	0.0581		ug/L		118	50 - 150
Pyrene	0.0494	0.0548		ug/L		111	50 - 150
Simazine	0.0494	0.0605		ug/L		123	50 - 150
Terbacil	0.0988	0.151	^3+	ug/L		153	50 - 150
Terbutylazine	0.0988	0.102		ug/L		104	50 - 150
Thiobencarb	0.0988	0.135	J	ug/L		137	50 - 150
trans-Nonachlor	0.0247	<0.026		ug/L		95	50 - 150
Trifluralin	0.0988	0.125		ug/L		127	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
2-Nitro-m-xylene	100		70 - 130
Perylene-d12	85		70 - 130
Triphenylphosphate	101		70 - 130

Lab Sample ID: 380-65286-J-2-A MS
Matrix: Water
Analysis Batch: 59135

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 58918

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.098		1.94	2.15		ug/L		110	70 - 130
2,4'-DDD	<0.098		1.94	2.24		ug/L		115	70 - 130

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QC Sample Results

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-65439-1

Method: 525.2 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 380-65286-J-2-A MS
Matrix: Water
Analysis Batch: 59135

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 58918

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
2,4'-DDE	<0.098		1.94	2.22		ug/L		114	70 - 130
2,4'-DDT	<0.098		1.94	2.51		ug/L		129	70 - 130
2,4-Dinitrotoluene	<0.098		1.94	2.28		ug/L		118	70 - 130
2,6-Dinitrotoluene	<0.098		1.94	2.18		ug/L		112	70 - 130
2-Methylnaphthalene	<0.098		1.94	2.16		ug/L		111	70 - 130
4,4'-DDD	<0.098		1.94	2.51		ug/L		129	70 - 130
4,4'-DDE	<0.098		1.94	2.14		ug/L		110	70 - 130
4,4'-DDT	<0.098		1.94	2.40		ug/L		123	70 - 130
Acenaphthene	<0.098		1.94	2.05		ug/L		106	70 - 130
Acenaphthylene	<0.098		1.94	2.14		ug/L		110	70 - 130
Acetochlor	<0.098		1.94	2.29		ug/L		118	70 - 130
Alachlor	<0.049		1.94	2.15		ug/L		110	70 - 130
alpha-BHC	<0.098		1.94	2.03		ug/L		105	70 - 130
alpha-Chlordane	<0.049		1.94	1.98		ug/L		102	70 - 130
Anthracene	<0.020	F1	1.94	0.955	F1	ug/L		49	70 - 130
Atrazine	<0.049		1.94	2.42		ug/L		124	70 - 130
Benz(a)anthracene	<0.049		1.94	2.04		ug/L		105	70 - 130
Benzo[a]pyrene	<0.020		1.94	1.62		ug/L		83	70 - 130
Benzo[b]fluoranthene	<0.020		1.94	2.52		ug/L		129	70 - 130
Benzo[g,h,i]perylene	<0.049		1.94	2.18		ug/L		112	70 - 130
Benzo[k]fluoranthene	<0.020	*+	1.94	2.52		ug/L		130	70 - 130
beta-BHC	<0.098		1.94	2.05		ug/L		105	70 - 130
Bis(2-ethylhexyl) phthalate	<0.59	^3+	1.94	2.70		ug/L		121	70 - 130
Bromacil	<0.098		1.94	2.35		ug/L		121	70 - 130
Butachlor	<0.049	^3+	1.94	2.29		ug/L		118	70 - 130
Butylbenzylphthalate	<0.49		1.94	2.28		ug/L		117	70 - 130
Chlorobenzilate	<0.098		1.94	2.28		ug/L		117	70 - 130
Chloroneb	<0.098		1.94	2.06		ug/L		106	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.098	^3+	1.94	2.16		ug/L		111	70 - 130
Chlorpyrifos	<0.049		1.94	2.33		ug/L		120	70 - 130
Chrysene	<0.020		1.94	2.14		ug/L		110	70 - 130
delta-BHC	<0.098		1.94	1.97		ug/L		101	70 - 130
Di(2-ethylhexyl)adipate	<0.59	^3+	1.94	2.23		ug/L		102	70 - 130
Dibenz(a,h)anthracene	<0.049		1.94	2.18		ug/L		112	70 - 130
Diclorvos (DDVP)	<0.049		1.94	2.35		ug/L		121	70 - 130
Dieldrin	<0.20		1.94	2.21		ug/L		113	70 - 130
Diethylphthalate	<0.49		1.94	2.19		ug/L		113	70 - 130
Dimethylphthalate	<0.49		1.94	2.20		ug/L		113	70 - 130
Di-n-butyl phthalate	<0.98		3.89	4.45		ug/L		111	70 - 130
Di-n-octyl phthalate	<0.098		1.94	1.85		ug/L		95	70 - 130
Endosulfan I (Alpha)	<0.098		1.94	1.93		ug/L		99	70 - 130
Endosulfan II (Beta)	<0.098		1.94	2.15		ug/L		110	70 - 130
Endosulfan sulfate	<0.098		1.94	2.29		ug/L		118	70 - 130
Endrin	<0.098	^3+	1.94	2.42		ug/L		125	70 - 130
Endrin aldehyde	<0.098		1.94	1.65		ug/L		85	70 - 130
EPTC	<0.098		1.94	2.16		ug/L		111	70 - 130
Fluoranthene	<0.098		1.94	2.13		ug/L		110	70 - 130
Fluorene	<0.049		1.94	2.17		ug/L		112	70 - 130
gamma-Chlordane	<0.049		1.94	1.94		ug/L		100	70 - 130

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QC Sample Results

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-65439-1

Method: 525.2 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 380-65286-J-2-A MS
Matrix: Water
Analysis Batch: 59135

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 58918

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec
	Result	Qualifier	Added	Result	Qualifier				
Heptachlor	<0.039	^3+	1.94	2.35		ug/L		121	70 - 130
Heptachlor epoxide (isomer B)	<0.049		1.94	2.04		ug/L		105	70 - 130
Hexachlorobenzene	<0.049		1.94	2.07		ug/L		107	70 - 130
Hexachlorocyclopentadiene	<0.049		1.94	2.16		ug/L		111	70 - 130
Indeno[1,2,3-cd]pyrene	<0.049		1.94	2.16		ug/L		111	70 - 130
Isophorone	<0.49		1.94	2.06		ug/L		106	70 - 130
Lindane	<0.039		1.94	2.03		ug/L		105	70 - 130
Malathion	<0.098		1.94	2.20		ug/L		113	70 - 130
Methoxychlor	<0.098		1.94	2.39		ug/L		123	70 - 130
Metolachlor	<0.049		1.94	2.37		ug/L		122	70 - 130
Molinate	<0.098		1.94	2.26		ug/L		116	70 - 130
Naphthalene	<0.30		1.94	2.09		ug/L		108	70 - 130
Parathion	<0.098	F1	1.94	2.61	F1	ug/L		134	70 - 130
Pendimethalin (Penoxaline)	<0.098		1.94	2.43		ug/L		125	70 - 130
Phenanthrene	<0.039		1.94	2.00		ug/L		103	70 - 130
Propachlor	<0.049		1.94	2.40		ug/L		123	70 - 130
Pyrene	<0.049		1.94	2.19		ug/L		113	70 - 130
Simazine	<0.049		1.94	2.50		ug/L		129	70 - 130
Terbacil	<0.098	^3+	1.94	2.19		ug/L		113	70 - 130
Terbutylazine	<0.098		1.94	2.38		ug/L		122	70 - 130
Thiobencarb	<0.20		1.94	2.42		ug/L		124	70 - 130
trans-Nonachlor	<0.049		1.94	2.06		ug/L		106	70 - 130
Trifluralin	<0.098		1.94	2.16		ug/L		111	70 - 130

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	99		70 - 130
Perylene-d12	96		70 - 130
Triphenylphosphate	106		70 - 130

Lab Sample ID: 380-65998-B-1-A DU
Matrix: Water
Analysis Batch: 59135

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 58918

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	RPD
	Result	Qualifier	Result	Qualifier				
1-Methylnaphthalene	<0.098		<0.098		ug/L		NC	20
2,4'-DDD	<0.098		<0.098		ug/L		NC	20
2,4'-DDE	<0.098		<0.098		ug/L		NC	20
2,4'-DDT	<0.098		<0.098		ug/L		NC	20
2,4-Dinitrotoluene	<0.098		<0.098		ug/L		NC	20
2,6-Dinitrotoluene	<0.098		<0.098		ug/L		NC	20
2-Methylnaphthalene	<0.098		<0.098		ug/L		NC	20
4,4'-DDD	<0.098		<0.098		ug/L		NC	20
4,4'-DDE	<0.098		<0.098		ug/L		NC	20
4,4'-DDT	<0.098		<0.098		ug/L		NC	20
Acenaphthene	<0.098		<0.098		ug/L		NC	20
Acenaphthylene	<0.098		<0.098		ug/L		NC	20
Acetochlor	<0.098		<0.098		ug/L		NC	20
Alachlor	<0.049		<0.049		ug/L		NC	20

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QC Sample Results

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-65439-1

Method: 525.2 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 380-65998-B-1-A DU
Matrix: Water
Analysis Batch: 59135

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 58918

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
alpha-BHC	<0.098		<0.098		ug/L		NC	20
alpha-Chlordane	<0.049		<0.049		ug/L		NC	20
Anthracene	<0.020		<0.020		ug/L		NC	20
Atrazine	<0.049		<0.049		ug/L		NC	20
Benz(a)anthracene	<0.049		<0.049		ug/L		NC	20
Benzo[a]pyrene	<0.020		<0.020		ug/L		NC	20
Benzo[b]fluoranthene	<0.020		<0.020		ug/L		NC	20
Benzo[g,h,i]perylene	<0.049		<0.049		ug/L		NC	20
Benzo[k]fluoranthene	<0.020	*+	<0.020	*+	ug/L		NC	20
beta-BHC	<0.098		<0.098		ug/L		NC	20
Bis(2-ethylhexyl) phthalate	<0.59	^3+	1.11		ug/L		NC	20
Bromacil	<0.098		<0.098		ug/L		NC	20
Butachlor	<0.049	^3+	<0.049		ug/L		NC	20
Butylbenzylphthalate	<0.49		<0.49		ug/L		NC	20
Chlorobenzilate	<0.098		<0.098		ug/L		NC	20
Chloroneb	<0.098		<0.098		ug/L		NC	20
Chlorothalonil (Draconil, Bravo)	<0.098	^3+	<0.098		ug/L		NC	20
Chlorpyrifos	<0.049		<0.049		ug/L		NC	20
Chrysene	<0.020		<0.020		ug/L		NC	20
delta-BHC	<0.098		<0.098		ug/L		NC	20
Di(2-ethylhexyl)adipate	<0.59	^3+	<0.59		ug/L		NC	20
Dibenz(a,h)anthracene	<0.049		<0.049		ug/L		NC	20
Diclorvos (DDVP)	<0.049		<0.049		ug/L		NC	20
Dieldrin	<0.20		<0.20		ug/L		NC	20
Diethylphthalate	<0.49		<0.49		ug/L		NC	20
Dimethylphthalate	<0.49		<0.49		ug/L		NC	20
Di-n-butyl phthalate	<0.98		<0.98		ug/L		NC	20
Di-n-octyl phthalate	<0.098		<0.098		ug/L		NC	20
Endosulfan I (Alpha)	<0.098		<0.098		ug/L		NC	20
Endosulfan II (Beta)	<0.098		<0.098		ug/L		NC	20
Endosulfan sulfate	<0.098		<0.098		ug/L		NC	20
Endrin	<0.098	^3+	<0.098		ug/L		NC	20
Endrin aldehyde	<0.098		<0.098		ug/L		NC	20
EPTC	<0.098		<0.098		ug/L		NC	20
Fluoranthene	<0.098		<0.098		ug/L		NC	20
Fluorene	<0.049		<0.049		ug/L		NC	20
gamma-Chlordane	<0.049		<0.049		ug/L		NC	20
Heptachlor	<0.039	^3+	<0.039		ug/L		NC	20
Heptachlor epoxide (isomer B)	<0.049		<0.049		ug/L		NC	20
Hexachlorobenzene	<0.049		<0.049		ug/L		NC	20
Hexachlorocyclopentadiene	<0.049		<0.049		ug/L		NC	20
Indeno[1,2,3-cd]pyrene	<0.049		<0.049		ug/L		NC	20
Isophorone	<0.49		<0.49		ug/L		NC	20
Lindane	<0.039		<0.039		ug/L		NC	20
Malathion	<0.098		<0.098		ug/L		NC	20
Methoxychlor	<0.098		<0.098		ug/L		NC	20
Metolachlor	<0.049		<0.049		ug/L		NC	20
Molinate	<0.098		<0.098		ug/L		NC	20
Naphthalene	<0.29		<0.29		ug/L		NC	20

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QC Sample Results

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-65439-1

Method: 525.2 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 380-65998-B-1-A DU
Matrix: Water
Analysis Batch: 59135

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 58918

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Parathion	<0.098		<0.098		ug/L		NC	20
Pendimethalin (Penoxaline)	<0.098		<0.098		ug/L		NC	20
Phenanthrene	<0.039		<0.039		ug/L		NC	20
Propachlor	<0.049		<0.049		ug/L		NC	20
Pyrene	<0.049		<0.049		ug/L		NC	20
Simazine	<0.049		<0.049		ug/L		NC	20
Terbacil	<0.098	^3+	<0.098		ug/L		NC	20
Terbutylazine	<0.098		<0.098		ug/L		NC	20
Thiobencarb	<0.20		<0.20		ug/L		NC	20
Total Permethrin (mixed isomers)	<0.20		<0.20		ug/L		NC	20
trans-Nonachlor	<0.049		<0.049		ug/L		NC	20
Trifluralin	<0.098		<0.098		ug/L		NC	20

Surrogate	DU	DU	Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	99		70 - 130
Perylene-d12	100		70 - 130
Triphenylphosphate	104		70 - 130

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

Lab Sample ID: MBL 380-58879/20-A
Matrix: Water
Analysis Batch: 59462

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 58879

Analyte	MBL	MBL	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
11-Chloroeicosfluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<0.30		2.0	ng/L		10/11/23 11:07	10/16/23 00:49	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<0.30		2.0	ng/L		10/11/23 11:07	10/16/23 00:49	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.60		2.0	ng/L		10/11/23 11:07	10/16/23 00:49	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<1.0		2.0	ng/L		10/11/23 11:07	10/16/23 00:49	1
Perfluorobutanesulfonic acid (PFBS)	<0.37		2.0	ng/L		10/11/23 11:07	10/16/23 00:49	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	ng/L		10/11/23 11:07	10/16/23 00:49	1
Perfluorododecanoic acid (PFDoA)	<0.54		2.0	ng/L		10/11/23 11:07	10/16/23 00:49	1
Perfluoroheptanoic acid (PFHpA)	<0.39		2.0	ng/L		10/11/23 11:07	10/16/23 00:49	1
Perfluorohexanesulfonic acid (PFHxS)	<0.32		2.0	ng/L		10/11/23 11:07	10/16/23 00:49	1
Perfluorohexanoic acid (PFHxA)	<0.46		2.0	ng/L		10/11/23 11:07	10/16/23 00:49	1
Perfluorononanoic acid (PFNA)	<0.40		2.0	ng/L		10/11/23 11:07	10/16/23 00:49	1
Perfluorooctanesulfonic acid (PFOS)	<0.43		2.0	ng/L		10/11/23 11:07	10/16/23 00:49	1
Perfluorooctanoic acid (PFOA)	<0.38		2.0	ng/L		10/11/23 11:07	10/16/23 00:49	1
Perfluoroundecanoic acid (PFUnA)	<0.42		2.0	ng/L		10/11/23 11:07	10/16/23 00:49	1
Perfluorobutanoic acid (PFBA)	<0.69		2.0	ng/L		10/11/23 11:07	10/16/23 00:49	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.38		2.0	ng/L		10/11/23 11:07	10/16/23 00:49	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.37		2.0	ng/L		10/11/23 11:07	10/16/23 00:49	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.48		2.0	ng/L		10/11/23 11:07	10/16/23 00:49	1

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QC Sample Results

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-65439-1

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

Lab Sample ID: MBL 380-58879/20-A
Matrix: Water
Analysis Batch: 59462

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 58879

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.47		2.0	ng/L		10/11/23 11:07	10/16/23 00:49	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<0.25		2.0	ng/L		10/11/23 11:07	10/16/23 00:49	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.46		2.0	ng/L		10/11/23 11:07	10/16/23 00:49	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.15		2.0	ng/L		10/11/23 11:07	10/16/23 00:49	1
Perfluoropentanoic acid (PFPeA)	<0.38		2.0	ng/L		10/11/23 11:07	10/16/23 00:49	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.36		2.0	ng/L		10/11/23 11:07	10/16/23 00:49	1
Perfluoropentanesulfonic acid (PFPeS)	<0.39		2.0	ng/L		10/11/23 11:07	10/16/23 00:49	1

Isotope Dilution	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	91		50 - 200	10/11/23 11:07	10/16/23 00:49	1
13C6 PFDA	98		50 - 200	10/11/23 11:07	10/16/23 00:49	1
13C5 PFHxA	96		50 - 200	10/11/23 11:07	10/16/23 00:49	1
13C4 PFHpA	95		50 - 200	10/11/23 11:07	10/16/23 00:49	1
13C8 PFOA	95		50 - 200	10/11/23 11:07	10/16/23 00:49	1
13C9 PFNA	99		50 - 200	10/11/23 11:07	10/16/23 00:49	1
13C7 PFUnA	96		50 - 200	10/11/23 11:07	10/16/23 00:49	1
13C2 PFDoA	97		50 - 200	10/11/23 11:07	10/16/23 00:49	1
13C4 PFBA	98		50 - 200	10/11/23 11:07	10/16/23 00:49	1
13C5 PFPeA	94		50 - 200	10/11/23 11:07	10/16/23 00:49	1
13C3 PFBS	98		50 - 200	10/11/23 11:07	10/16/23 00:49	1
13C3 PFHxS	99		50 - 200	10/11/23 11:07	10/16/23 00:49	1
13C8 PFOS	99		50 - 200	10/11/23 11:07	10/16/23 00:49	1
13C2-4:2-FTS	111		50 - 200	10/11/23 11:07	10/16/23 00:49	1
13C2-6:2-FTS	109		50 - 200	10/11/23 11:07	10/16/23 00:49	1
13C2-8:2-FTS	113		50 - 200	10/11/23 11:07	10/16/23 00:49	1

Lab Sample ID: LCS 380-58879/22-A
Matrix: Water
Analysis Batch: 59462

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 58879

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	60.0	57.8		ng/L		96	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	60.0	58.8		ng/L		98	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	60.0	60.2		ng/L		100	70 - 130
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	60.0	54.0		ng/L		90	70 - 130
Perfluorobutanesulfonic acid (PFBS)	60.0	61.6		ng/L		103	70 - 130
Perfluorodecanoic acid (PFDA)	60.0	59.5		ng/L		99	70 - 130
Perfluorododecanoic acid (PFDoA)	60.0	59.0		ng/L		98	70 - 130

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QC Sample Results

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-65439-1

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

Lab Sample ID: LCS 380-58879/22-A
Matrix: Water
Analysis Batch: 59462

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 58879

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoroheptanoic acid (PFHpA)	60.0	60.0		ng/L		100	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	60.0	57.0		ng/L		95	70 - 130
Perfluorohexanoic acid (PFHxA)	60.0	59.9		ng/L		100	70 - 130
Perfluorononanoic acid (PFNA)	60.0	59.6		ng/L		99	70 - 130
Perfluorooctanesulfonic acid (PFOS)	60.0	58.7		ng/L		98	70 - 130
Perfluorooctanoic acid (PFOA)	60.0	61.7		ng/L		103	70 - 130
Perfluoroundecanoic acid (PFUnA)	60.0	57.4		ng/L		96	70 - 130
Perfluorobutanoic acid (PFBA)	60.0	60.3		ng/L		101	70 - 130
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	60.0	63.5		ng/L		106	70 - 130
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	60.0	63.2		ng/L		105	70 - 130
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	60.0	58.7		ng/L		98	70 - 130
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	60.0	59.7		ng/L		99	70 - 130
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	60.0	61.1		ng/L		102	70 - 130
Perfluoro-3-methoxypropanoic acid (PFMPA)	60.0	59.2		ng/L		99	70 - 130
Perfluoro-4-methoxybutanoic acid (PFMBA)	60.0	61.1		ng/L		102	70 - 130
Perfluoropentanoic acid (PFPeA)	60.0	58.9		ng/L		98	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	60.0	60.5		ng/L		101	70 - 130
Perfluoropentanesulfonic acid (PFPeS)	60.0	57.3		ng/L		96	70 - 130

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
13C3 HFPO-DA	99		50 - 200
13C6 PFDA	101		50 - 200
13C5 PFHxA	98		50 - 200
13C4 PFHpA	99		50 - 200
13C8 PFOA	98		50 - 200
13C9 PFNA	102		50 - 200
13C7 PFUnA	102		50 - 200
13C2 PFDoA	103		50 - 200
13C4 PFBA	100		50 - 200
13C5 PFPeA	101		50 - 200
13C3 PFBS	97		50 - 200
13C3 PFHxS	100		50 - 200
13C8 PFOS	100		50 - 200
13C2-4:2-FTS	97		50 - 200
13C2-6:2-FTS	102		50 - 200
13C2-8:2-FTS	102		50 - 200

QC Sample Results

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-65439-1

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

Lab Sample ID: LCSD 380-58879/23-A
Matrix: Water
Analysis Batch: 59462

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 58879

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	60.2	53.8		ng/L		89	70 - 130	7		30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	60.2	55.2		ng/L		92	70 - 130	6		30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	60.2	57.4		ng/L		95	70 - 130	5		30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	60.2	54.0		ng/L		90	70 - 130	0		30
Perfluorobutanesulfonic acid (PFBS)	60.2	61.5		ng/L		102	70 - 130	0		30
Perfluorodecanoic acid (PFDA)	60.2	57.1		ng/L		95	70 - 130	4		30
Perfluorododecanoic acid (PFDoA)	60.2	59.1		ng/L		98	70 - 130	0		30
Perfluoroheptanoic acid (PFHpA)	60.2	60.2		ng/L		100	70 - 130	0		30
Perfluorohexanesulfonic acid (PFHxS)	60.2	57.3		ng/L		95	70 - 130	0		30
Perfluorohexanoic acid (PFHxA)	60.2	60.8		ng/L		101	70 - 130	1		30
Perfluorononanoic acid (PFNA)	60.2	59.1		ng/L		98	70 - 130	1		30
Perfluorooctanesulfonic acid (PFOS)	60.2	56.7		ng/L		94	70 - 130	3		30
Perfluorooctanoic acid (PFOA)	60.2	58.5		ng/L		97	70 - 130	5		30
Perfluoroundecanoic acid (PFUnA)	60.2	57.1		ng/L		95	70 - 130	0		30
Perfluorobutanoic acid (PFBA)	60.2	60.7		ng/L		101	70 - 130	1		30
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	60.2	61.8		ng/L		103	70 - 130	3		30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	60.2	63.2		ng/L		105	70 - 130	0		30
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	60.2	58.9		ng/L		98	70 - 130	0		30
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	60.2	59.1		ng/L		98	70 - 130	1		30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	60.2	59.7		ng/L		99	70 - 130	2		30
Perfluoro-3-methoxypropanoic acid (PFMPA)	60.2	55.8		ng/L		93	70 - 130	6		30
Perfluoro-4-methoxybutanoic acid (PFMBA)	60.2	60.6		ng/L		101	70 - 130	1		30
Perfluoropentanoic acid (PFPeA)	60.2	61.2		ng/L		102	70 - 130	4		30
Perfluoroheptanesulfonic acid (PFHpS)	60.2	57.0		ng/L		95	70 - 130	6		30
Perfluoropentanesulfonic acid (PFPeS)	60.2	56.7		ng/L		94	70 - 130	1		30

Isotope Dilution	LCSD		Limits
	%Recovery	Qualifier	
13C3 HFPO-DA	102		50 - 200
13C6 PFDA	107		50 - 200
13C5 PFHxA	100		50 - 200
13C4 PFHpA	103		50 - 200
13C8 PFOA	100		50 - 200
13C9 PFNA	105		50 - 200

QC Sample Results

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-65439-1

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

Lab Sample ID: LCSD 380-58879/23-A
Matrix: Water
Analysis Batch: 59462

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 58879

Isotope Dilution	LCSD LCSD		Limits
	%Recovery	Qualifier	
13C7 PFUnA	105		50 - 200
13C2 PFDoA	104		50 - 200
13C4 PFBA	101		50 - 200
13C5 PFPeA	99		50 - 200
13C3 PFBS	94		50 - 200
13C3 PFHxS	100		50 - 200
13C8 PFOS	103		50 - 200
13C2-4:2-FTS	100		50 - 200
13C2-6:2-FTS	101		50 - 200
13C2-8:2-FTS	106		50 - 200

Lab Sample ID: MRL 380-58879/21-A
Matrix: Water
Analysis Batch: 59462

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 58879

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec
							Limits
11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.00	2.15	J	ng/L		108	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	2.00	2.19	J	ng/L		109	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.00	2.28	J	ng/L		114	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	2.00	2.05	J	ng/L		103	50 - 150
Perfluorobutanesulfonic acid (PFBS)	2.00	2.17	J	ng/L		109	50 - 150
Perfluorodecanoic acid (PFDA)	2.00	2.27	J	ng/L		113	50 - 150
Perfluorododecanoic acid (PFDoA)	2.00	2.34	J	ng/L		117	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.00	2.26	J	ng/L		113	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	2.00	2.21	J	ng/L		111	50 - 150
Perfluorohexanoic acid (PFHxA)	2.00	2.37	J	ng/L		118	50 - 150
Perfluorononanoic acid (PFNA)	2.00	2.35	J	ng/L		117	50 - 150
Perfluorooctanesulfonic acid (PFOS)	2.00	2.30	J	ng/L		115	50 - 150
Perfluorooctanoic acid (PFOA)	2.00	2.29	J	ng/L		114	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.00	2.22	J	ng/L		111	50 - 150
Perfluorobutanoic acid (PFBA)	2.00	2.39	J	ng/L		120	50 - 150
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	2.00	2.37	J	ng/L		119	50 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	2.00	2.50	J	ng/L		125	50 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	2.00	2.36	J	ng/L		118	50 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	2.00	2.05	J	ng/L		102	50 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	2.00	2.09	J	ng/L		105	50 - 150

QC Sample Results

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-65439-1

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

Lab Sample ID: MRL 380-58879/21-A
Matrix: Water
Analysis Batch: 59462

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 58879

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoro-3-methoxypropanoic acid (PFMPA)	2.00	2.03	J	ng/L		101	50 - 150
Perfluoro-4-methoxybutanoic acid (PFMBA)	2.00	2.34	J	ng/L		117	50 - 150
Perfluoropentanoic acid (PFPeA)	2.00	2.37	J	ng/L		119	50 - 150
Perfluoroheptanesulfonic acid (PFHpS)	2.00	2.33	J	ng/L		116	50 - 150
Perfluoropentanesulfonic acid (PFPeS)	2.00	2.36	J	ng/L		118	50 - 150

Isotope Dilution	MRL %Recovery	MRL Qualifier	MRL Limits
13C3 HFPO-DA	84		50 - 200
13C6 PFDA	99		50 - 200
13C5 PFHxA	98		50 - 200
13C4 PFHpA	94		50 - 200
13C8 PFOA	98		50 - 200
13C9 PFNA	102		50 - 200
13C7 PFUnA	98		50 - 200
13C2 PFDoA	98		50 - 200
13C4 PFBA	98		50 - 200
13C5 PFPeA	92		50 - 200
13C3 PFBS	96		50 - 200
13C3 PFHxS	96		50 - 200
13C8 PFOS	95		50 - 200
13C2-4:2-FTS	100		50 - 200
13C2-6:2-FTS	99		50 - 200
13C2-8:2-FTS	102		50 - 200

Lab Sample ID: 380-65375-B-1-A MS
Matrix: Water
Analysis Batch: 59462

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 58879

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		120	111		ng/L		92	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		120	119		ng/L		99	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		120	120		ng/L		99	70 - 130
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		120	113		ng/L		94	70 - 130
Perfluorobutanesulfonic acid (PFBS)	6.1		120	122		ng/L		96	70 - 130
Perfluorodecanoic acid (PFDA)	<2.0		120	114		ng/L		94	70 - 130
Perfluorododecanoic acid (PFDoA)	<2.0		120	121		ng/L		100	70 - 130
Perfluoroheptanoic acid (PFHpA)	<2.0		120	119		ng/L		98	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	29		120	146		ng/L		97	70 - 130
Perfluorohexanoic acid (PFHxA)	5.1		120	115		ng/L		91	70 - 130

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QC Sample Results

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-65439-1

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

Lab Sample ID: 380-65375-C-1-A MSD

Matrix: Water

Analysis Batch: 59462

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 58879

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		120	116		ng/L		97	70 - 130	4	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		120	119		ng/L		99	70 - 130	0	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		120	121		ng/L		101	70 - 130	1	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		120	114		ng/L		95	70 - 130	1	30
Perfluorobutanesulfonic acid (PFBS)	6.1		120	127		ng/L		100	70 - 130	4	30
Perfluorodecanoic acid (PFDA)	<2.0		120	117		ng/L		98	70 - 130	3	30
Perfluorododecanoic acid (PFDoA)	<2.0		120	119		ng/L		99	70 - 130	1	30
Perfluoroheptanoic acid (PFHpA)	<2.0		120	121		ng/L		100	70 - 130	2	30
Perfluorohexanesulfonic acid (PFHxS)	29		120	142		ng/L		94	70 - 130	3	30
Perfluorohexanoic acid (PFHxA)	5.1		120	116		ng/L		92	70 - 130	0	30
Perfluorononanoic acid (PFNA)	<2.0		120	125		ng/L		104	70 - 130	3	30
Perfluorooctanesulfonic acid (PFOS)	35		120	152		ng/L		98	70 - 130	0	30
Perfluorooctanoic acid (PFOA)	4.3		120	122		ng/L		98	70 - 130	1	30
Perfluoroundecanoic acid (PFUnA)	<2.0		120	114		ng/L		95	70 - 130	2	30
Perfluorobutanoic acid (PFBA)	2.8		120	124		ng/L		101	70 - 130	1	30
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		120	118		ng/L		98	70 - 130	0	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		120	122		ng/L		102	70 - 130	2	30
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		120	114		ng/L		95	70 - 130	0	30
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		120	119		ng/L		99	70 - 130	5	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		120	119		ng/L		99	70 - 130	6	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		120	117		ng/L		98	70 - 130	2	30
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		120	124		ng/L		103	70 - 130	7	30
Perfluoropentanoic acid (PFPeA)	2.5		120	123		ng/L		101	70 - 130	4	30
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		120	121		ng/L		100	70 - 130	0	30
Perfluoropentanesulfonic acid (PFPeS)	4.9		120	125		ng/L		100	70 - 130	2	30

Isotope Dilution	MSD %Recovery	MSD Qualifier	MSD Limits
13C3 HFPO-DA	112		50 - 200
13C6 PFDA	105		50 - 200
13C5 PFHxA	104		50 - 200
13C4 PFHpA	100		50 - 200
13C8 PFOA	102		50 - 200
13C9 PFNA	102		50 - 200

QC Sample Results

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-65439-1

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

Lab Sample ID: 380-65375-C-1-A MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 59462

Prep Batch: 58879

<i>Isotope Dilution</i>	<i>MSD MSD</i>		<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
13C7 PFUnA	107		50 - 200
13C2 PFDoA	107		50 - 200
13C4 PFBA	100		50 - 200
13C5 PFPeA	100		50 - 200
13C3 PFBS	102		50 - 200
13C3 PFHxS	103		50 - 200
13C8 PFOS	102		50 - 200
13C2-4:2-FTS	101		50 - 200
13C2-6:2-FTS	103		50 - 200
13C2-8:2-FTS	107		50 - 200

QC Association Summary

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-65439-1

GC/MS Semi VOA

Prep Batch: 58067

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-65439-1	MOANALUA WELLS	Total/NA	Drinking Water	525.2	
380-65439-3	AIEA WELLS PUMPS 1&2 (260) P2	Total/NA	Drinking Water	525.2	
380-65439-4	HALAWA WELLS UNITS 1 & 2 P1	Total/NA	Drinking Water	525.2	
MB 380-58067/21-A	Method Blank	Total/NA	Water	525.2	
LCS 380-58067/23-A	Lab Control Sample	Total/NA	Water	525.2	
LCSD 380-58067/24-A	Lab Control Sample Dup	Total/NA	Water	525.2	
MRL 380-58067/22-A	Lab Control Sample	Total/NA	Water	525.2	
380-65384-DM-1-A MS	Matrix Spike	Total/NA	Water	525.2	
380-65471-AX-1-A DU	Duplicate	Total/NA	Water	525.2	

Analysis Batch: 58448

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-65439-1	MOANALUA WELLS	Total/NA	Drinking Water	525.2	58067
380-65439-3	AIEA WELLS PUMPS 1&2 (260) P2	Total/NA	Drinking Water	525.2	58067
380-65439-4	HALAWA WELLS UNITS 1 & 2 P1	Total/NA	Drinking Water	525.2	58067
MB 380-58067/21-A	Method Blank	Total/NA	Water	525.2	58067
LCS 380-58067/23-A	Lab Control Sample	Total/NA	Water	525.2	58067
LCSD 380-58067/24-A	Lab Control Sample Dup	Total/NA	Water	525.2	58067
MRL 380-58067/22-A	Lab Control Sample	Total/NA	Water	525.2	58067
380-65384-DM-1-A MS	Matrix Spike	Total/NA	Water	525.2	58067
380-65471-AX-1-A DU	Duplicate	Total/NA	Water	525.2	58067

Prep Batch: 58918

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-65439-1	MOANALUA WELLS	Total/NA	Drinking Water	525.2	
380-65439-3	AIEA WELLS PUMPS 1&2 (260) P2	Total/NA	Drinking Water	525.2	
380-65439-4	HALAWA WELLS UNITS 1 & 2 P1	Total/NA	Drinking Water	525.2	
MB 380-58918/21-A	Method Blank	Total/NA	Water	525.2	
LCS 380-58918/23-A	Lab Control Sample	Total/NA	Water	525.2	
LCSD 380-58918/24-A	Lab Control Sample Dup	Total/NA	Water	525.2	
MRL 380-58918/22-A	Lab Control Sample	Total/NA	Water	525.2	
380-65286-J-2-A MS	Matrix Spike	Total/NA	Water	525.2	
380-65998-B-1-A DU	Duplicate	Total/NA	Water	525.2	

Analysis Batch: 59135

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-65439-1	MOANALUA WELLS	Total/NA	Drinking Water	525.2	58918
380-65439-3	AIEA WELLS PUMPS 1&2 (260) P2	Total/NA	Drinking Water	525.2	58918
380-65439-4	HALAWA WELLS UNITS 1 & 2 P1	Total/NA	Drinking Water	525.2	58918
MB 380-58918/21-A	Method Blank	Total/NA	Water	525.2	58918
LCS 380-58918/23-A	Lab Control Sample	Total/NA	Water	525.2	58918
LCSD 380-58918/24-A	Lab Control Sample Dup	Total/NA	Water	525.2	58918
MRL 380-58918/22-A	Lab Control Sample	Total/NA	Water	525.2	58918
380-65286-J-2-A MS	Matrix Spike	Total/NA	Water	525.2	58918
380-65998-B-1-A DU	Duplicate	Total/NA	Water	525.2	58918

LCMS

Prep Batch: 58879

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-65439-1	MOANALUA WELLS	Total/NA	Drinking Water	533	

Eurofins Eaton Analytical Pomona

QC Association Summary

Client: City & County of Honolulu
 Project/Site: RED-HILL

Job ID: 380-65439-1

LCMS (Continued)

Prep Batch: 58879 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-65439-2	AIEA GULCH WELLS PUMP 2	Total/NA	Drinking Water	533	
380-65439-3	AIEA WELLS PUMPS 1&2 (260) P2	Total/NA	Drinking Water	533	
380-65439-4	HALAWA WELLS UNITS 1 & 2 P1	Total/NA	Drinking Water	533	
380-65439-9	FB MOANALUA WELLS	Total/NA	Water	533	
380-65439-10	FB AIEA GULCH WELLS PUMP 2	Total/NA	Water	533	
380-65439-11	FB AIEA WELLS PUMPS 1&2 (260) P2	Total/NA	Water	533	
380-65439-12	FB HALAWA WELLS UNITS 1 & 2 P1	Total/NA	Water	533	
MBL 380-58879/20-A	Method Blank	Total/NA	Water	533	
LCS 380-58879/22-A	Lab Control Sample	Total/NA	Water	533	
LCSD 380-58879/23-A	Lab Control Sample Dup	Total/NA	Water	533	
MRL 380-58879/21-A	Lab Control Sample	Total/NA	Water	533	
380-65375-B-1-A MS	Matrix Spike	Total/NA	Water	533	
380-65375-C-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	533	

Analysis Batch: 59462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-65439-1	MOANALUA WELLS	Total/NA	Drinking Water	533	58879
380-65439-2	AIEA GULCH WELLS PUMP 2	Total/NA	Drinking Water	533	58879
380-65439-3	AIEA WELLS PUMPS 1&2 (260) P2	Total/NA	Drinking Water	533	58879
380-65439-4	HALAWA WELLS UNITS 1 & 2 P1	Total/NA	Drinking Water	533	58879
380-65439-9	FB MOANALUA WELLS	Total/NA	Water	533	58879
380-65439-10	FB AIEA GULCH WELLS PUMP 2	Total/NA	Water	533	58879
380-65439-11	FB AIEA WELLS PUMPS 1&2 (260) P2	Total/NA	Water	533	58879
380-65439-12	FB HALAWA WELLS UNITS 1 & 2 P1	Total/NA	Water	533	58879
MBL 380-58879/20-A	Method Blank	Total/NA	Water	533	58879
LCS 380-58879/22-A	Lab Control Sample	Total/NA	Water	533	58879
LCSD 380-58879/23-A	Lab Control Sample Dup	Total/NA	Water	533	58879
MRL 380-58879/21-A	Lab Control Sample	Total/NA	Water	533	58879
380-65375-B-1-A MS	Matrix Spike	Total/NA	Water	533	58879
380-65375-C-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	533	58879

Lab Chronicle

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-65439-1

Client Sample ID: MOANALUA WELLS

Lab Sample ID: 380-65439-1

Date Collected: 10/02/23 10:29

Matrix: Drinking Water

Date Received: 10/04/23 10:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			58918	N8NE	EA POM	10/11/23 14:31
Total/NA	Analysis	525.2		1	59135	UPAC	EA POM	10/12/23 18:03
Total/NA	Prep	525.2			58067	OTM3	EA POM	10/05/23 12:15
Total/NA	Analysis	525.2		1	58448	Q8LA	EA POM	10/08/23 15:37
Total/NA	Prep	533			58879	EE6W	EA POM	10/11/23 11:07
Total/NA	Analysis	533		1	59462	R6YA	EA POM	10/16/23 03:16

Client Sample ID: AIEA GULCH WELLS PUMP 2

Lab Sample ID: 380-65439-2

Date Collected: 10/02/23 11:34

Matrix: Drinking Water

Date Received: 10/04/23 10:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			58879	EE6W	EA POM	10/11/23 11:07
Total/NA	Analysis	533		1	59462	R6YA	EA POM	10/16/23 03:36

Client Sample ID: AIEA WELLS PUMPS 1&2 (260) P2

Lab Sample ID: 380-65439-3

Date Collected: 10/02/23 12:02

Matrix: Drinking Water

Date Received: 10/04/23 10:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			58918	N8NE	EA POM	10/11/23 14:31
Total/NA	Analysis	525.2		1	59135	UPAC	EA POM	10/12/23 18:43
Total/NA	Prep	525.2			58067	OTM3	EA POM	10/05/23 12:15
Total/NA	Analysis	525.2		1	58448	Q8LA	EA POM	10/08/23 16:16
Total/NA	Prep	533			58879	EE6W	EA POM	10/11/23 11:07
Total/NA	Analysis	533		1	59462	R6YA	EA POM	10/16/23 03:47

Client Sample ID: HALAWA WELLS UNITS 1 & 2 P1

Lab Sample ID: 380-65439-4

Date Collected: 10/02/23 10:58

Matrix: Drinking Water

Date Received: 10/04/23 10:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			58918	N8NE	EA POM	10/11/23 14:31
Total/NA	Analysis	525.2		1	59135	UPAC	EA POM	10/12/23 19:03
Total/NA	Prep	525.2			58067	OTM3	EA POM	10/05/23 12:15
Total/NA	Analysis	525.2		1	58448	Q8LA	EA POM	10/08/23 16:36
Total/NA	Prep	533			58879	EE6W	EA POM	10/11/23 11:07
Total/NA	Analysis	533		1	59462	R6YA	EA POM	10/16/23 03:57

Client Sample ID: FB MOANALUA WELLS

Lab Sample ID: 380-65439-9

Date Collected: 10/02/23 10:29

Matrix: Water

Date Received: 10/04/23 10:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			58879	EE6W	EA POM	10/11/23 11:07
Total/NA	Analysis	533		1	59462	R6YA	EA POM	10/16/23 04:06

Eurofins Eaton Analytical Pomona

Lab Chronicle

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-65439-1

Client Sample ID: FB AIEA GULCH WELLS PUMP 2

Lab Sample ID: 380-65439-10

Date Collected: 10/02/23 11:34

Matrix: Water

Date Received: 10/04/23 10:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			58879	EE6W	EA POM	10/11/23 11:07
Total/NA	Analysis	533		1	59462	R6YA	EA POM	10/16/23 04:16

Client Sample ID: FB AIEA WELLS PUMPS 1&2 (260) P2

Lab Sample ID: 380-65439-11

Date Collected: 10/02/23 12:02

Matrix: Water

Date Received: 10/04/23 10:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			58879	EE6W	EA POM	10/11/23 11:07
Total/NA	Analysis	533		1	59462	R6YA	EA POM	10/16/23 04:26

Client Sample ID: FB HALAWA WELLS UNITS 1 & 2 P1

Lab Sample ID: 380-65439-12

Date Collected: 10/02/23 10:58

Matrix: Water

Date Received: 10/04/23 10:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			58879	EE6W	EA POM	10/11/23 11:07
Total/NA	Analysis	533		1	59462	R6YA	EA POM	10/16/23 04:35

Laboratory References:

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

Accreditation/Certification Summary

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-65439-1

Laboratory: Eurofins Eaton Analytical Pomona

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Hawaii	State	CA00006	01-31-24

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
525.2	525.2	Drinking Water	1-Methylnaphthalene
525.2	525.2	Drinking Water	2,4'-DDD
525.2	525.2	Drinking Water	2,4'-DDE
525.2	525.2	Drinking Water	2,4'-DDT
525.2	525.2	Drinking Water	2,4-Dinitrotoluene
525.2	525.2	Drinking Water	2,6-Dinitrotoluene
525.2	525.2	Drinking Water	2-Methylnaphthalene
525.2	525.2	Drinking Water	4,4'-DDD
525.2	525.2	Drinking Water	4,4'-DDE
525.2	525.2	Drinking Water	4,4'-DDT
525.2	525.2	Drinking Water	Acenaphthene
525.2	525.2	Drinking Water	Acenaphthylene
525.2	525.2	Drinking Water	Acetochlor
525.2	525.2	Drinking Water	alpha-BHC
525.2	525.2	Drinking Water	alpha-Chlordane
525.2	525.2	Drinking Water	Anthracene
525.2	525.2	Drinking Water	Benz(a)anthracene
525.2	525.2	Drinking Water	Benzo[b]fluoranthene
525.2	525.2	Drinking Water	Benzo[g,h,i]perylene
525.2	525.2	Drinking Water	Benzo[k]fluoranthene
525.2	525.2	Drinking Water	beta-BHC
525.2	525.2	Drinking Water	Bromacil
525.2	525.2	Drinking Water	Butylbenzylphthalate
525.2	525.2	Drinking Water	Chlorobenzilate
525.2	525.2	Drinking Water	Chloroneb
525.2	525.2	Drinking Water	Chlorothalonil (Draconil, Bravo)
525.2	525.2	Drinking Water	Chlorpyrifos
525.2	525.2	Drinking Water	Chrysene
525.2	525.2	Drinking Water	delta-BHC
525.2	525.2	Drinking Water	Dibenz(a,h)anthracene
525.2	525.2	Drinking Water	Diclorvos (DDVP)
525.2	525.2	Drinking Water	Diethylphthalate
525.2	525.2	Drinking Water	Dimethylphthalate
525.2	525.2	Drinking Water	Di-n-butyl phthalate
525.2	525.2	Drinking Water	Di-n-octyl phthalate
525.2	525.2	Drinking Water	Endosulfan I (Alpha)
525.2	525.2	Drinking Water	Endosulfan II (Beta)
525.2	525.2	Drinking Water	Endosulfan sulfate
525.2	525.2	Drinking Water	Endrin aldehyde
525.2	525.2	Drinking Water	EPTC
525.2	525.2	Drinking Water	Fluoranthene
525.2	525.2	Drinking Water	Fluorene
525.2	525.2	Drinking Water	gamma-Chlordane
525.2	525.2	Drinking Water	Indeno[1,2,3-cd]pyrene
525.2	525.2	Drinking Water	Isophorone

Accreditation/Certification Summary

Client: City & County of Honolulu
 Project/Site: RED-HILL

Job ID: 380-65439-1

Laboratory: Eurofins Eaton Analytical Pomona (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
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
525.2	525.2	Drinking Water	Malathion
525.2	525.2	Drinking Water	Molinate
525.2	525.2	Drinking Water	Naphthalene
525.2	525.2	Drinking Water	Parathion
525.2	525.2	Drinking Water	Pendimethalin (Penoxaline)
525.2	525.2	Drinking Water	Phenanthrene
525.2	525.2	Drinking Water	Pyrene
525.2	525.2	Drinking Water	Terbacil
525.2	525.2	Drinking Water	Terbutylazine
525.2	525.2	Drinking Water	Thiobencarb
525.2	525.2	Drinking Water	Total Permethrin (mixed isomers)
525.2	525.2	Drinking Water	trans-Nonachlor
525.2	525.2	Drinking Water	Trifluralin
533	533	Drinking Water	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)
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(9Cl-PF3ONS)
533	533	Drinking Water	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)
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	Perfluoroheptanesulfonic acid (PFHpS)
533	533	Drinking Water	Perfluoropentanesulfonic acid (PFPeS)
533	533	Drinking Water	Perfluoropentanoic acid (PFPeA)
533	533	Water	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)
533	533	Water	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)
533	533	Water	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)
533	533	Water	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)
533	533	Water	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)
533	533	Water	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)

Accreditation/Certification Summary

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-65439-1

Laboratory: Eurofins Eaton Analytical Pomona (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
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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	Water	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)
533	533	Water	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)
533	533	Water	Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)
533	533	Water	Perfluoro-3-methoxypropanoic acid (PFMPA)
533	533	Water	Perfluoro-4-methoxybutanoic acid (PFMBA)
533	533	Water	Perfluorobutanoic acid (PFBA)
533	533	Water	Perfluoroheptanesulfonic acid (PFHpS)
533	533	Water	Perfluoropentanesulfonic acid (PFPeS)
533	533	Water	Perfluoropentanoic acid (PFPeA)

Method Summary

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-65439-1

Method	Method Description	Protocol	Laboratory
525.2	Semivolatile Organic Compounds (GC/MS)	EPA	EA POM
533	Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water	EPA	EA POM
525.2	Extraction of Semivolatile Compounds	EPA	EA POM
533	Extraction of Perfluorinated and Polyfluorinated Alkyl Acids	EPA	EA POM

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

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



Sample Summary

Client: City & County of Honolulu
 Project/Site: RED-HILL

Job ID: 380-65439-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	PWSID Number
380-65439-1	MOANALUA WELLS	Drinking Water	10/02/23 10:29	10/04/23 10:40	HI0000331
380-65439-2	AIEA GULCH WELLS PUMP 2	Drinking Water	10/02/23 11:34	10/04/23 10:40	HI0000331
380-65439-3	AIEA WELLS PUMPS 1&2 (260) P2	Drinking Water	10/02/23 12:02	10/04/23 10:40	HI0000331
380-65439-4	HALAWA WELLS UNITS 1 & 2 P1	Drinking Water	10/02/23 10:58	10/04/23 10:40	HI0000331
380-65439-9	FB MOANALUA WELLS	Water	10/02/23 10:29	10/04/23 10:40	HI0000331
380-65439-10	FB AIEA GULCH WELLS PUMP 2	Water	10/02/23 11:34	10/04/23 10:40	HI0000331
380-65439-11	FB AIEA WELLS PUMPS 1&2 (260) P2	Water	10/02/23 12:02	10/04/23 10:40	HI0000331
380-65439-12	FB HALAWA WELLS UNITS 1 & 2 P1	Water	10/02/23 10:58	10/04/23 10:40	HI0000331

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Monrovia, CA (Suite 100)

750 Royal Oaks Drive Suite 100
 Monrovia, CA 91016
 Phone (626) 386-1100

Chain of Custody Record



11/13/2023

Client Information		Sample #	BAUER	Lab #	Arada, Rachelle	Carrier/Tracking No(s)	COC No 380-27941-2757 2
Client Contact: Dr. Ron Fenstermacher		Phone	808-748-5840	E-Mail	Rachelle.Arada@euronisus.com	State of Origin	Page Page 2 of 2
Company: City & County of Honolulu		Due Date Requested		PMSID		Analysis Requested	Job #
Address: 630 South Beretania Street, Chemistry Lab		TAT Requested (days)					Preservation Codes
City: Honolulu		Compliance Project Δ No					A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Ammonia H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other
State Zip HI, 96843		PO #	C20525101 exp 05312023				M - Hexane N - None O - Acetic Acid P - Na2CO3 Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4.5 Y - Trizma Z - other (specify)
Phone 808-748-5091 (tel)		W/O #					
Email Fenstermacher@hwbws.org		Project #	38001111				
Project Name RSD-HILLHBWS sites Event Desc. RUSH Weekly Red Hill		SSOW#					
Site							

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Inher Special, Other)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Total Number of containers	Special Instructions/Note:
MOANALUA WELLS	2-Oct-2023	1029	GT	Water	R	SUBCONTRACT - 625 PAH Physis LL (EAL) + TICs	0736 21511478 - 1.1' - 0.1' = 1.0'	
AIEA GULCH WELLS PUMP2	2-Oct-2023	1202	GT	Water	R	SUBCONTRACT - 8015 Gas (Purgeable) LL (EAL)	0736 21511499 - 2.0' - 0.1' = 1.9'	
AIEA WELLS PUMPS 1&2 (260)P2	2-Oct-2023	1134	GT	Water	RA	SUBCONTRACT - 8815 Diesel LL (EAL) and Motor Oil	0736 21511515 - 1.8' - 0.1' = 1.7'	
HALAWA WELLS UNITS 1&2 P1	2-Oct-2023	1058	GT	Water	RA	525 2_PREC - (MOD) 625plus PLUS TICs	0736 21511526 - 2.6' - 0.1' = 2.5'	
FB MOANALUA WELLS	2-Oct-2023	1029	GT	Water	RA	SUBCONTRACT - 8015 Gas (Purgeable) LL (EAL)	0736 21511533 - 5.3' - 0.1' = 5.6'	
FB AIEA GULCH WELLS PUMP2	2-Oct-2023	1202	GT	Water	Y	537 1_DW_PREC - 537 1 Full List	0736 21511548 - 2.4' - 0.1' = 2.3'	
FB AIEA WELLS PUMPS 1&2 (260)	2-Oct-2023	1134	GT	Water	N	533 - All Analytes		
FB HALAWA WELLS UNITS 1&2	2-Oct-2023	1058	GT	Water				

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

Deliverable Requested I II III IV, Other (specify)

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Empty Kit Relinquished by _____ **Date** _____ **Time** _____ **Method of Shipment** FED Ex 6 COVERS

Relinquished by BAUER **Date/Time** 0803.2023 1400 **Company** HBWS

Relinquished by _____ **Date/Time** _____ **Company** _____

Relinquished by _____ **Date/Time** _____ **Company** _____

Custody Seals Intact: Δ Yes Δ No **Custody Seal No** _____

Received by G RETNER **Date/Time** 10/04/2023 10:40 **Company** ECAP

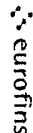
Received by _____ **Date/Time** _____ **Company** _____

Cooler Temperature(s) °C and Other Remarks (75A) - 0.1' - GET FROZEN

Monrovia, CA (Suite 100)

750 Royal Oaks Drive Suite 100
 Monrovia, CA 91016
 Phone (626) 386-1100

Chain of Custody Record



24 3671 JP Test
 Ver 2

Client Information	Client Contact: Dr. Ron Fenstermacher	Phone: 808-748-5840	Lab PM: Arada, Rachelle	Carrier Tracking No(s):	COC No: 380-27941-2757 2
Company: City & County of Honolulu	Address: 630 South Beretania Street, Chemistry Lab	City: Honolulu	E-Mail: Rachelle.Arada@eurofins.com	State of Origin:	Page: Page 1 of 2
State Zip: HI, 96843	Due Date Requested: TAT Requested (days)	Compliance Project: C20525101 exp 05312023	Job #:	Job #:	Job #:
Phone: 808-748-5091 (Tel)	Project #:	WC #:	Preservation Codes		
Email: rfenstermacher@hbws.org	Project Name: RED-HILL/HBWS sites Event Desc: RUSH Weekly Red Hill	SSQW#:	A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NH4SO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDTA M - Hexane N - None O - AsNaO2 P - Na2CO3 Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MeCN W - pH 4.5 Y - Trizma Z - other (specify)		

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Solid, Other)	Preservation Code	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Analysis Requested	Special Instructions/Note	Total Number of containers
MOANALUA WELLS	2-Oct-2023	1029		Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	SUBCONTRACT - 625 PAH Physis LL (EAL) + TICs SUBCONTRACT - 8015 Gas (Purgeable) LL (EAL) SUBCONTRACT - 8915 Diesel LL (EAL) and Motor Oil 525 2_PREC - (MOD) 525plus PLUS TICs SUBCONTRACT - 8015 Gas (Purgeable) LL (EAL) 537 1_DW_PREC - 537 1 Full List 533 - All Analytes	① #736 2151 1498 - 1.1' 0.1' - 1.0' ② #736 2151 1481 - 2' 0' 0.1' - 1.9' ③ #736 2151 1515 - 1.8' 0.1' - 1.3' ④ #736 2151 1526 - 2' 0' 0.1' - 2.5' ⑤ #736 2151 1531 - 5.3' 0.1' - 5.0' ⑥ #736 2151 1548 - 2.4' 0.1' - 2.3'	
AIEA GULCH WELLS PUMP2	2-Oct-2023	1202		Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
AIEA WELLS PUMPS 1&2 (260) P2	2-Oct-2023	1134		Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
HALAWA WELLS UNITS 1&2 P1	2-Oct-2023	1058		Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
TB MOANALUA WELLS	2-Oct-2023	1029		Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
TB AIEA GULCH WELLS PUMP2	2-Oct-2023	1202		Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
TB AIEA WELLS PUMPS 1&2 (260)	2-Oct-2023	1134		Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
TB HALAWA WELLS UNITS 1&2	2-Oct-2023	1058		Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			

Possible Hazard Identification

Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

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

Special Instructions/QC Requirements

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For _____ Months

Empty Kit Relinquished by _____ Date _____

Relinquished by BAILEY Date 03 Oct 2023

Relinquished by BAILEY Date 03 Oct 2023

Relinquished by _____ Date _____

Relinquished by _____ Date _____

Custody Seals Intact: Yes No

Custody Seal No _____

Method of Shipment: FED Ex 6 covers

Received by G. RETNER Date 10/04/2023

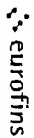
Received by _____ Date _____

Cooler Temperature(s) °C and Other Remarks: (75NA) - 0.1° Gel-Frozen

Monrovia, CA (Suite 100)

750 Royal Oaks Drive Suite 100
 Monrovia, CA 91016
 Phone (626) 386-1100

Chain of Custody Record



11/13/2023

Client Information		Sample #	BAUER	Lab #	Arada, Rachelle	Carrier/ Tracking No(s)	COC No 380-27941-2757 2
Client Contact: Dr. Ron Fenstermacher		Phone	808-748-5840	E-Mail	Rachelle.Arada@euronisus.com	State of Origin	Page Page 2 of 2
Company: City & County of Honolulu		Due Date Requested		PMSID		Analysis Requested	Job #
Address: 630 South Beretania Street, Chemistry Lab		TAT Requested (days)					Preservation Codes
City: Honolulu		Compliance Project	Δ No				A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Ammonia H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other
State Zip HI, 96843		PO #	C20525101 exp 05312023				M - Hexane N - None O - ASH2O2 P - Na2OAS Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4.5 Y - Trizma Z - other (specify)
Phone 808-748-5091 (tel)		W/O #					
Email Fenstermacher@hwbws.org		Project #	38001111				
Project Name RSD-HILL/HBWS sites Event Desc. RUSH Weekly Red Hill		SSOW#					
Site							

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Inher, Specif, Other)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Total Number of containers	Special Instructions/Note:
MOANALUA WELLS	2-Oct-2023	1029	GT	Water	R	SUBCONTRACT - 625 PAH Physis LL (EAL) + TICs	0736 21511478 - 1.1' - 0.1' = 1.0'	
AIEA GULCH WELLS PUMP2	2-Oct-2023	1202	GT	Water	R	SUBCONTRACT - 8015 Gas (Purgeable) LL (EAL)	0736 21511499 - 2.0' - 0.1' = 1.9'	
AIEA WELLS PUMPS 1&2 (260)P2	2-Oct-2023	1124	GT	Water	RA	SUBCONTRACT - 8815 Diesel LL (EAL) and Motor Oil	0736 21511515 - 1.8' - 0.1' = 1.7'	
HALAWA WELLS UNITS 1&2 P1	2-Oct-2023	1058	GT	Water	RA	525 2_PREC - (MOD) 626plus PLUS TICs	0736 21511526 - 2.6' - 0.1' = 2.5'	
FB MOANALUA WELLS	2-Oct-2023	1029	GT	Water	RA	SUBCONTRACT - 8015 Gas (Purgeable) LL (EAL)	0736 21511533 - 5.3' - 0.1' = 5.6'	
FB AIEA GULCH WELLS PUMP2	2-Oct-2023	1202	GT	Water	Y	537 1_DW_PREC - 537 1 Full List	0736 21511548 - 2.4' - 0.1' = 2.3'	
FB AIEA WELLS PUMPS 1&2 (260)	2-Oct-2023	1124	GT	Water	N	533 - All Analytes		
FB HALAWA WELLS UNITS 1&2	2-Oct-2023	1058	GT	Water				

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

Deliverable Requested I II III IV Other (specify)

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Empty Kit Relinquished by _____ Date _____ Time _____ Method of Shipment: **FED EX 6 COVERS**

Relinquished by BAUER Date/Time 0803.2023 1400 Company HBWS

Relinquished by _____ Date/Time _____ Company _____

Relinquished by _____ Date/Time _____ Company _____

Custody Seals Intact: Δ Yes Δ No **Custody Seal No** _____

Received by G RETNER Date/Time 10/04/2023 10:40 Company ECAP

Received by _____ Date/Time _____ Company _____

Cooler Temperature(s) °C and Other Remarks (75A) - 0.1' - GET FROZEN

Monrovia, CA (Suite 100)
 750 Royal Oaks Drive Suite 100
 Monrovia, CA 91016
 Phone (626) 386-1100


Chain of Custody Record

eurofins
 24 3611 R
 1er 2

Client Information		Sampler/Phone BAILEY 808-748-5840	Lab PM Arada, Rachelle	CCO No 380-27941-2757 2
Client Contact Dr. Ron Fenstermacher		Phone 808-748-5840	E-Mail Rachelle.Arada@eurofins.com	Page Page 1 of 2
Company City & County of Honolulu		Due Date Requested	PWSID	Job #
Address 630 South Beretania Street, Chemistry Lab		Analysis Requested		
City Honolulu		TAT Requested (days)	Preservation Codes	
State Zip HI, 96843		Compliance Project	A - HCL B - NaOH N - None O - AsAcO2 C - Zn Acetate D - Nitric Acid E - NH4SO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other	
Phone 808-748-5091 (Tel)		PO # C20525101 exp 05312023	M - Hexane P - Na2CO3 Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecylhydrate U - Acetone V - MeCN W - pH 4.5 Y - Trizma Z - other (specify)	
Email rfenstermacher@hbws.org		WC #	Special Instructions/Note:	
Project Name RED-HILL/HBWS sites Event Desc: RUSH Weekly Red Hill		Project # 38001111	Total Number of containers	
Site SSQW#		SSQW#	Other	

Sample Identification	Sample Date	Sample Time	Sample Type (G=Comp, G=grab)	Matrix (Water, Solid, Derivative, Aqueous)	Preservation Code	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Analysis Requested	Carrier Tracking No(s)	State of Origin	Job #
MOANALUA WELLS	2-Oct-2023	1029		Water		X	X	SUBCONTRACT - 625 PAH Physis LL (EAL) + TICs			
AIEA GULCH WELLS PUMP2	2-Oct-2023	1202		Water		X	X	SUBCONTRACT - 8015 Gas (Purgeable) LL (EAL)			
AIEA WELLS PUMPS 1&2 (260) P2	2-Oct-2023	1134		Water		X	X	SUBCONTRACT - 8915 Diesel LL (EAL) and Motor Oil			
HALAWA WELLS UNITS 1&2 P1	2-Oct-2023	1058		Water		X	X	525 2_PREC - (MOD) 525plus PLUS TICs			
								SUBCONTRACT - 8015 Gas (Purgeable) LL (EAL)			
TB MOANALUA WELLS	2-Oct-2023	1029		Water				537 1_DW_PREC - 537 1 Full List			
TB AIEA GULCH WELLS PUMP2	2-Oct-2023	1202		Water				533 - All Analytes			
TB AIEA WELLS PUMPS 1&2 (260)	2-Oct-2023	1134		Water							
TB HALAWA WELLS UNITS 1&2	2-Oct-2023	1058		Water							

380-65439 COC



Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
 Return To Client Disposal By Lab Archive For _____ Months

Special Instructions/QC Requirements

Empty Kit Relinquished by _____ Date _____ Time _____ Method of Shipment: **FED Ex 6 covers**

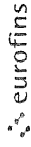
Relinquished by **BAILEY** Date/Time **03 Oct 2023 1400** Company **HBWS** Received by **G. RETNER** Date/Time **10/04/2023 10:40** Company **EGAP**

Relinquished by _____ Date/Time _____ Company _____ Received by _____ Date/Time _____ Company _____

Custody Seals Intact: Yes No Custody Seal No _____ Cooler Temperature(s) °C and Other Remarks: **(75NA) - 0.1° Gel-Frozen**

Monrovia, CA (Suite 100)
 750 Royal Oaks Drive Suite 100
 Monrovia, CA 91016
 Phone (626) 386-1100

Chain of Custody Record



EN DETAIL REPORT

Client Information		Lab PM Arada, Rachelle		COC No 380-27941-2757.2	
Client Contact Dr. Ron Fenstermacher		E-Mail Rachelle.Arada@et.eurofins.com		Page Page 1 of 2	
Company City & County of Honolulu		PWSID		Job #	
Address 630 South Beretania Street, Chemistry Lab		Due Date Requested		Camera Tracking No(s)	
City Honolulu		TAT Requested (days)		State of Origin	
State Zip HI, 96843		Compliance Project Δ No			
Phone 808-748-5091 (tel)		PO # C20525101 exp 05312023			
Email rfenstermacher@hbws.org		WO #			
Project Name RED-HILL/HBWS sites Event Desc: RUSH Weekly Red Hill		Project # 38001111			
Site		SSOW#			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastebill, BT=Tissue, A=air)	Preservation Code	Analysis Requested				Special Instructions/Note							
						Field Filtered Sample (Yes or No)	Form MS/MSD (Yes or No)	SUBCONTRACT - 625 PAH Physis LL (EAL) + TICS	SUBCONTRACT - 8015 Gas (Purgeable) LL (EAL)		SUBCONTRACT - 8915 Diesel LL (EAL) and Motor Oil	525 2.PREC. (MOD) 525plus PLUS TICS	SUBCONTRACT - 8015 Gas (Purgeable) LL (EAL)	537 1.DW.PREC. - 537 1 Full List	533 - All Analytes		
MOANALUA WELLS	2-Oct-2023	1029	G	Water		X	X	2	2	4	4	2	2	4	4	1	① 7736 21511478 - 1.1' 0.1' - 1.0'
AIEA GULCH WELLS PUMP2	2-Oct-2023	1202	G	Water		X	X	2	2	4	4	2	2	4	4		② 7736 21511481 - 2.0' 0.1' - 1.9'
AIEA WELLS PUMPS 1&2 (260) P2	2-Oct-2023	1134	G	Water		X	X	2	2	4	4	2	2	4	4		③ 7736 21511515 - 1.8' 0.1' - 1.7'
HALAWA WELLS UNITS 1&2 P1	2-Oct-2023	1058	G	Water		X	X	2	2	4	4	2	2	4	4		④ 7736 21511526 - 2.6' 0.1' - 2.5'
TB MOANALUA WELLS	2-Oct-2023	1029		Water													⑤ 7736 21511531 - 5.3' 0.1' - 5.6'
TB AIEA GULCH WELLS PUMP2	2-Oct-2023	1202		Water													⑥ 7736 21511548 - 2.4' 0.1' - 2.3'
TB AIEA WELLS PUMPS 1&2 (260)	2-Oct-2023	1134		Water													
TB HALAWA WELLS UNITS 1&2	2-Oct-2023	1058		Water													

<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Radiological Deliverable Requested I, II, III, IV, Other (specify)		<input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological	
Possible Hazard Identification <input type="checkbox"/> Empty Kit Relinquished by		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Relinquished by BAILEY Date/Time 08 Oct 2023 1400		Received by G. RETNER Date/Time 10/04/2023 10:40	
Relinquished by BAILEY Date/Time 08 Oct 2023 1400		Received by G. RETNER Date/Time 10/04/2023 10:40	
Relinquished by BAILEY Date/Time 08 Oct 2023 1400		Received by G. RETNER Date/Time 10/04/2023 10:40	
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Relinquished by BAILEY Date/Time 08 Oct 2023 1400		Received by G. RETNER Date/Time 10/04/2023 10:40	
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Relinquished by BAILEY Date/Time 08 Oct 2023 1400		Received by G. RETNER Date/Time 10/04/2023 10:40	
Relinquished by BAILEY Date/Time 08 Oct 2023 1400		Received by G. RETNER Date/Time 10/04/2023 10:40	

Relinquished by BAILEY Date/Time 08 Oct 2023 1400		Received by G. RETNER Date/Time 10/04/2023 10:40	
Relinquished by BAILEY Date/Time 08 Oct 2023 1400		Received by G. RETNER Date/Time 10/04/2023 10:40	
Relinquished by BAILEY Date/Time 08 Oct 2023 1400		Received by G. RETNER Date/Time 10/04/2023 10:40	
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Monrovia, CA (Suite 100)
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 Monrovia, CA 91016
 Phone (626) 386-1100

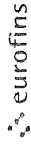
Chain of Custody Record

eurofins

Client Information		Lab PM Arada, Rachelle		Garner Tracking No(s)		COC No 380-27941-2757 2	
Client Contact: Dr Ron Fenstermacher		E-Mail Rachelle.Arada@et.euronisus.com		State of Origin		Page Page 2 of 2	
Company City & County of Honolulu		PWSID		Analysis Requested		Job #	
Address 630 South Beretania Street, Chemistry Lab		Due Date Requested		593 - All Analytes		Preservation Codes	
City Honolulu		TAT Requested (days)		597 1_DW_PREC - 637 1 Full List		M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4.5 Y - Trizma Z - other (specify)	
State Zip HI, 96843		Compliance Project: <input type="checkbox"/> No		SUBCONTRACT - 8915 Gas (Purgeable) LL (EAL)		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:	
Phone 808-748-5091 (tel)		PO # C20525101 exp 05312023		SUBCONTRACT - 8915 Diesel LL (EAL) and Motor Oil		Total Number of Containers	
Email rfenstermacher@hbws.org		WO #		SUBCONTRACT - 8015 Gas (Purgeable) LL (EAL)		Special Instructions/Note:	
Project Name RED-HILL/HBWS sites Event Desc. RUSH Weekly Red Hill		Project # 38001111		SUBCONTRACT - 625 PAH Physis LL (EAL) + TICs			
Site		SSOW#		SUBCONTRACT - 8015 Gas (Purgeable) LL (EAL)			
Sample Identification		Sample Date		SUBCONTRACT - 8915 Diesel LL (EAL) and Motor Oil			
MOANALUA WELLS		2-Oct-2023		SUBCONTRACT - 8015 Gas (Purgeable) LL (EAL)			
AIEA GULCH WELLS PUMP2		2-Oct-2023		SUBCONTRACT - 8915 Gas (Purgeable) LL (EAL)			
AIEA WELLS PUMPS 1&2 (260)P2		2-Oct-2023		SUBCONTRACT - 8015 Gas (Purgeable) LL (EAL)			
HALAWA WELLS UNITS 1&2 P1		2-Oct-2023		SUBCONTRACT - 8915 Diesel LL (EAL) and Motor Oil			
FB MOANALUA WELLS		2-Oct-2023		SUBCONTRACT - 625 PAH Physis LL (EAL) + TICs			
FB AIEA GULCH WELLS PUMP2		2-Oct-2023		Perform MS/MSD (Yes or No)			
FB AIEA WELLS PUMPS 1&2 (260)		2-Oct-2023		Field Filtered Sample (Yes or No)			
FB HALAWA WELLS UNITS 1&2		2-Oct-2023		Matrix (Water, Seawater, On-water, BT-Tissue, Air, Air)			
Possible Hazard Identification		Sample Time		Sample Type (G-comp, G-grab)			
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		1029		G		Water	
Deliverable Requested I II III, IV, Other (specify)		202		G		Water	
Empty Kit Relinquished by		1134		G		Water	
Relinquished by BAILEY		1029		G		Water	
Relinquished by		202		G		Water	
Relinquished by		1134		G		Water	
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		1029		G		Water	
Custody Seal No		202		G		Water	
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Monrovia, CA (Suite 100)
 750 Royal Oaks Drive Suite 100
 Monrovia, CA 91016
 Phone (626) 386-1100

Chain of Custody Record



EN DETAIL REPORT

Client Information		Lab PM Arada, Rachelle		COC No 380-27941-2757.2	
Client Contact Dr. Ron Fenstermacher		E-Mail Rachelle.Arada@et.eurofins.com		Page Page 1 of 2	
Company City & County of Honolulu		PWSID		Job #	
Address 630 South Beretania Street, Chemistry Lab		Due Date Requested		Camera Tracking No(s)	
City Honolulu		TAT Requested (days)		State of Origin	
State Zip HI, 96843		Compliance Project Δ No			
Phone 808-748-5091 (tel)		PO # C20525101 exp 05312023			
Email rfenstermacher@hbws.org		WO #			
Project Name RED-HILL/HBWS sites Event Desc: RUSH Weekly Red Hill		Project # 38001111			
Site		SSOW#			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastebill, BT=Tissue, A=air)	Preservation Code	Analysis Requested					Special Instructions/Note			
						Field Filtered Sample (Yes or No)	Form MS/MSD (Yes or No)	SUBCONTRACT - 625 PAH Physis LL (EAL) + TICS	SUBCONTRACT - 8015 Gas (Purgeable) LL (EAL)	SUBCONTRACT - 8915 Diesel LL (EAL) and Motor Oil		525 2.PREC. (MOD) 525plus PLUS TICS	SUBCONTRACT - 8015 Gas (Purgeable) LL (EAL)	537 1.DW.PREC. - 537 1 Full List
MOANALUA WELLS	2-Oct-2023	1029	G	Water		X	X	2	2	2	4	Y	N	① 7736 21511478 - 1.1' 0.1' - 1.0'
AIEA GULCH WELLS PUMP2	2-Oct-2023	1202	G	Water		X	X	2	2	2	4			② 7736 21511481 - 2.0' 0.1' - 1.9'
AIEA WELLS PUMPS 1&2 (260) P2	2-Oct-2023	1134	G	Water		X	X	2	2	2	4			③ 7736 21511515 - 1.8' 0.1' - 1.7'
HALAWA WELLS UNITS 1&2 P1	2-Oct-2023	1058	G	Water		X	X	2	2	2	4			④ 7736 21511526 - 2.6' 0.1' - 2.5'
TB MOANALUA WELLS	2-Oct-2023	1029		Water										⑤ 7736 21511531 - 5.3' 0.1' - 5.6'
TB AIEA GULCH WELLS PUMP2	2-Oct-2023	1202		Water										⑥ 7736 21511548 - 2.4' 0.1' - 2.3'
TB AIEA WELLS PUMPS 1&2 (260)	2-Oct-2023	1134		Water										
TB HALAWA WELLS UNITS 1&2	2-Oct-2023	1058		Water										

<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Radiological Deliverable Requested I, II, III, IV, Other (specify)		<input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological	
Possible Hazard Identification <input type="checkbox"/> Empty Kit Relinquished by		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
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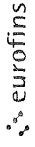
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Relinquished by BAILE	
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Monrovia, CA (Suite 100)
 750 Royal Oaks Drive Suite 100
 Monrovia, CA 91016
 Phone (626) 386-1100

Chain of Custody Record



Client Information		Lab PM Arada, Rachelle		Garner Tracking No(s)		COC No 380-27941-2757 2	
Client Contact: Dr Ron Fenstermacher		E-Mail Rachelle.Arada@et.euronisus.com		State of Origin		Page Page 2 of 2	
Company City & County of Honolulu		PWSID		Analysis Requested		Job #	
Address 630 South Beretania Street, Chemistry Lab		Due Date Requested		Perform MS/MSD (Yes or No)		Preservation Codes	
City Honolulu		TAT Requested (days)		SUBCONTRACT - 8915 Diesel LL (EAL) and Motor Oil		A - HCl M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4.5 X - EDTA Y - Trizma Z - other (specify)	
State Zip HI, 96843		Compliance Project: <input type="checkbox"/> No		SUBCONTRACT - 8915 Gas (Purgeable) LL (EAL)		Other	
Phone 808-748-5091 (tel)		PO # C20525101 exp 05312023		SUBCONTRACT - 8015 Gas (Purgeable) LL (EAL)		Total Number of containers	
Email rfenstermacher@hbws.org		WO #		SUBCONTRACT - 625 PAH Physis LL (EAL) + TICs		Special Instructions/Note:	
Project Name RED-HILL/HBWS sites Event Desc. RUSH Weekly Red Hill		Project # 38001111		SUBCONTRACT - 8015 Gas (Purgeable) LL (EAL)		533 - All Analytes	
Site		SSOW#		SUBCONTRACT - 525 2.PREC. (MOD) 525plus PLUS TICs		537 1_DW_PREC - 537 1 Full List	
Sample Identification		Sample Date		Field Filtered Sample (Yes or No)		533 - All Analytes	
MOANALUA WELLS		2-Oct-2023		<input checked="" type="checkbox"/>		537 1_DW_PREC - 537 1 Full List	
AIEA GULCH WELLS PUMP2		2-Oct-2023		<input checked="" type="checkbox"/>		533 - All Analytes	
AIEA WELLS PUMPS 1&2 (260)P2		2-Oct-2023		<input checked="" type="checkbox"/>		533 - All Analytes	
HALAWA WELLS UNITS 1&2 P1		2-Oct-2023		<input checked="" type="checkbox"/>		533 - All Analytes	
FB MOANALUA WELLS		2-Oct-2023		<input type="checkbox"/>		533 - All Analytes	
FB AIEA GULCH WELLS PUMP2		2-Oct-2023		<input type="checkbox"/>		533 - All Analytes	
FB AIEA WELLS PUMPS 1&2 (260)		2-Oct-2023		<input type="checkbox"/>		533 - All Analytes	
FB HALAWA WELLS UNITS 1&2		2-Oct-2023		<input type="checkbox"/>		533 - All Analytes	
Possible Hazard Identification		Sample Time		Matrix		533 - All Analytes	
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		1029		Water		533 - All Analytes	
Deliverable Requested I II III, IV, Other (specify)		1202		Water		533 - All Analytes	
Empty Kit Relinquished by		1134		Water		533 - All Analytes	
Relinquished by BAILEY		1029		Water		533 - All Analytes	
Relinquished by		1202		Water		533 - All Analytes	
Relinquished by		1134		Water		533 - All Analytes	
Custody Seals Intact		1029		Water		533 - All Analytes	
<input type="checkbox"/> Yes <input type="checkbox"/> No		1202		Water		533 - All Analytes	
Custody Seal No		1134		Water		533 - All Analytes	
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Custody Seal No		1134		Water		533 - All Analytes	
Custody Seal No		1029		Water		533 - All Analytes	
Custody Seal No		1202		Water		533 - All Analytes	
Custody Seal No		1134		Water		533 - All Analytes	
Custody Seal No		1029		Water		533 - All Analytes	
Custody Seal No		1202		Water		533 - All Analytes	
Custody Seal No		113					

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-65439-1

Login Number: 65439
List Number: 1
Creator: Elyas, Matthew

List Source: Eurofins Eaton Analytical Pomona

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.	False	Sample time discrepancies. Refer to NCM for details.
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	
Container provided by EEA	True	

