

ANALYTICAL REPORT

PREPARED FOR

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JOB DESCRIPTION

RED-HILL
Weekly
RUSH Weekly Red Hill

JOB NUMBER

380-147415-1

Eurofins Eaton Analytical Pomona

Job Notes

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

The test results in this report relate only to the samples as received by the laboratory and meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins 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: 380-147415-1
SDG: Weekly

Qualifiers

GC/MS Semi VOA

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.

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.

GC VOA

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.

GC Semi VOA

Qualifier	Qualifier Description
^3+	Reporting Limit Check Standard is outside acceptance limits, high biased
S1+	Surrogate recovery exceeds control limits, high biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

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

Job ID: 380-147415-1

Job ID: 380-147415-1

Eurofins Eaton Analytical Pomona

Job Narrative 380-147415-1

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 and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided 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 4/24/2025 9:34 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.9°C and 2.4°C.

GC/MS Semi VOA

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

Gasoline Range Organics

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

Diesel Range Organics

Method 8015B_DRO_LL_CS: The method reporting limit check (MRL) for preparation batch 570-563894 and analytical batch 570-567004 recovered outside control limits for the following analytes: C10-C28. These analytes were biased high in the MRL and were not detected in the associated samples; therefore, the data have been reported.

Method 8015B_DRO_LL_CS: The surrogate recovery for the blank associated with preparation batch 570-563894 and analytical batch 570-567004 was outside the upper control limits.

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

Detection Summary

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

Job ID: 380-147415-1
SDG: Weekly

Client Sample ID: Ka'amilo Wells
PWSID Number: HI0000331

Lab Sample ID: 380-147415-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Dieldrin	0.043		0.0098	ug/L	1		525.2	Total/NA

Client Sample ID: TB: Ka'amilo Wells

Lab Sample ID: 380-147415-2

No Detections.

Client Sample ID: MOANALUA WELLS
PWSID Number: HI0000331

Lab Sample ID: 380-147415-3

No Detections.

Client Sample ID: TB: MOANALUA WELLS

Lab Sample ID: 380-147415-4

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: 380-147415-1
SDG: Weekly

Client Sample ID: Ka'amilo Wells

Lab Sample ID: 380-147415-1

Date Collected: 04/21/25 11:42

Matrix: Drinking Water

Date Received: 04/24/25 09:34

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 15:02	1
2,4'-DDD	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 15:02	1
2,4'-DDE	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 15:02	1
2,4'-DDT	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 15:02	1
2,4-Dinitrotoluene	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 15:02	1
2,6-Dinitrotoluene	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 15:02	1
2-Methylnaphthalene	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 15:02	1
4,4'-DDD	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 15:02	1
4,4'-DDE	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 15:02	1
4,4'-DDT	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 15:02	1
Acenaphthene	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 15:02	1
Acenaphthylene	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 15:02	1
Acetochlor	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 15:02	1
Alachlor	<0.049		0.049	ug/L		04/28/25 09:22	04/29/25 15:02	1
alpha-BHC	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 15:02	1
alpha-Chlordane	<0.049		0.049	ug/L		04/28/25 09:22	04/29/25 15:02	1
Anthracene	<0.020		0.020	ug/L		04/28/25 09:22	04/29/25 15:02	1
Atrazine	<0.049		0.049	ug/L		04/28/25 09:22	04/29/25 15:02	1
Benz(a)anthracene	<0.049		0.049	ug/L		04/28/25 09:22	04/29/25 15:02	1
Benzo[a]pyrene	<0.020		0.020	ug/L		04/28/25 09:22	04/29/25 15:02	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		04/28/25 09:22	04/29/25 15:02	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		04/28/25 09:22	04/29/25 15:02	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		04/28/25 09:22	04/29/25 15:02	1
beta-BHC	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 15:02	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		04/28/25 09:22	04/29/25 15:02	1
Bromacil	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 15:02	1
Butachlor	<0.049		0.049	ug/L		04/28/25 09:22	04/29/25 15:02	1
Butylbenzylphthalate	<0.49		0.49	ug/L		04/28/25 09:22	04/29/25 15:02	1
Chlorobenzilate	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 15:02	1
Chloroneb	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 15:02	1
Chlorothalonil (Draconil, Bravo)	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 15:02	1
Chlorpyrifos	<0.049		0.049	ug/L		04/28/25 09:22	04/29/25 15:02	1
Chrysene	<0.020		0.020	ug/L		04/28/25 09:22	04/29/25 15:02	1
delta-BHC	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 15:02	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		04/28/25 09:22	04/29/25 15:02	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		04/28/25 09:22	04/29/25 15:02	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		04/28/25 09:22	04/29/25 15:02	1
Dieldrin	0.043		0.0098	ug/L		04/28/25 09:22	04/29/25 15:02	1
Diethylphthalate	<0.49		0.49	ug/L		04/28/25 09:22	04/29/25 15:02	1
Dimethylphthalate	<0.49		0.49	ug/L		04/28/25 09:22	04/29/25 15:02	1
Di-n-butyl phthalate	<0.98		0.98	ug/L		04/28/25 09:22	04/29/25 15:02	1
Di-n-octyl phthalate	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 15:02	1
Endosulfan I (Alpha)	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 15:02	1
Endosulfan II (Beta)	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 15:02	1
Endosulfan sulfate	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 15:02	1
Endrin	<0.0098		0.0098	ug/L		04/28/25 09:22	04/29/25 15:02	1
Endrin aldehyde	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 15:02	1
EPTC	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 15:02	1
Fluoranthene	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 15:02	1

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Client Sample Results

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

Job ID: 380-147415-1
SDG: Weekly

Client Sample ID: Ka'amilo Wells

Lab Sample ID: 380-147415-1

Date Collected: 04/21/25 11:42

Matrix: Drinking Water

Date Received: 04/24/25 09:34

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	<0.049		0.049	ug/L		04/28/25 09:22	04/29/25 15:02	1
gamma-Chlordane	<0.049		0.049	ug/L		04/28/25 09:22	04/29/25 15:02	1
Heptachlor	<0.0098		0.0098	ug/L		04/28/25 09:22	04/29/25 15:02	1
Heptachlor epoxide (isomer B)	<0.0098		0.0098	ug/L		04/28/25 09:22	04/29/25 15:02	1
Hexachlorobenzene	<0.049		0.049	ug/L		04/28/25 09:22	04/29/25 15:02	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		04/28/25 09:22	04/29/25 15:02	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		04/28/25 09:22	04/29/25 15:02	1
Isophorone	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 15:02	1
Lindane	<0.0098		0.0098	ug/L		04/28/25 09:22	04/29/25 15:02	1
Malathion	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 15:02	1
Methoxychlor	<0.049		0.049	ug/L		04/28/25 09:22	04/29/25 15:02	1
Metolachlor	<0.049		0.049	ug/L		04/28/25 09:22	04/29/25 15:02	1
Molinate	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 15:02	1
Naphthalene	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 15:02	1
Parathion	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 15:02	1
Pendimethalin (Penoxaline)	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 15:02	1
Phenanthrene	<0.039		0.039	ug/L		04/28/25 09:22	04/29/25 15:02	1
Propachlor	<0.049		0.049	ug/L		04/28/25 09:22	04/29/25 15:02	1
Pyrene	<0.049		0.049	ug/L		04/28/25 09:22	04/29/25 15:02	1
Simazine	<0.049		0.049	ug/L		04/28/25 09:22	04/29/25 15:02	1
Terbacil	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 15:02	1
Terbutylazine	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 15:02	1
Thiobencarb	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 15:02	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		04/28/25 09:22	04/29/25 15:02	1
trans-Nonachlor	<0.049		0.049	ug/L		04/28/25 09:22	04/29/25 15:02	1
Trifluralin	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 15:02	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	0.90	T J	ug/L		10.02	N/A	04/28/25 09:22	04/29/25 15:02	1
Unknown	0.67	T J	ug/L		13.61	N/A	04/28/25 09:22	04/29/25 15:02	1
Unknown	3.4	T J	ug/L		14.29	N/A	04/28/25 09:22	04/29/25 15:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	94		70 - 130	04/28/25 09:22	04/29/25 15:02	1
Perylene-d12	95		70 - 130	04/28/25 09:22	04/29/25 15:02	1
Triphenylphosphate	107		70 - 130	04/28/25 09:22	04/29/25 15:02	1

Method: EPA 625.1 SIM - Semivolatile Organic Compounds GC/MS (SIM)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.19		0.19	ug/L		04/25/25 16:28	05/07/25 13:02	1
2-Methylnaphthalene	<0.19		0.19	ug/L		04/25/25 16:28	05/07/25 13:02	1
Acenaphthene	<0.19		0.19	ug/L		04/25/25 16:28	05/07/25 13:02	1
Acenaphthylene	<0.19		0.19	ug/L		04/25/25 16:28	05/07/25 13:02	1
Anthracene	<0.19		0.19	ug/L		04/25/25 16:28	05/07/25 13:02	1
Benzo[a]anthracene	<0.19		0.19	ug/L		04/25/25 16:28	05/07/25 13:02	1
Benzo[a]pyrene	<0.19		0.19	ug/L		04/25/25 16:28	05/07/25 13:02	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		04/25/25 16:28	05/07/25 13:02	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		04/25/25 16:28	05/07/25 13:02	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		04/25/25 16:28	05/07/25 13:02	1
Chrysene	<0.19		0.19	ug/L		04/25/25 16:28	05/07/25 13:02	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-147415-1
SDG: Weekly

Client Sample ID: Ka'amilo Wells

Lab Sample ID: 380-147415-1

Date Collected: 04/21/25 11:42

Matrix: Drinking Water

Date Received: 04/24/25 09:34

PWSID Number: HI0000331

Method: EPA 625.1 SIM - Semivolatile Organic Compounds GC/MS (SIM) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	<0.19		0.19	ug/L		04/25/25 16:28	05/07/25 13:02	1
Fluoranthene	<0.19		0.19	ug/L		04/25/25 16:28	05/07/25 13:02	1
Fluorene	<0.19		0.19	ug/L		04/25/25 16:28	05/07/25 13:02	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		04/25/25 16:28	05/07/25 13:02	1
Naphthalene	<0.19		0.19	ug/L		04/25/25 16:28	05/07/25 13:02	1
Phenanthrene	<0.19		0.19	ug/L		04/25/25 16:28	05/07/25 13:02	1
Pyrene	<0.19		0.19	ug/L		04/25/25 16:28	05/07/25 13:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	84		28 - 127	04/25/25 16:28	05/07/25 13:02	1
2-Fluorobiphenyl (Surr)	67		31 - 120	04/25/25 16:28	05/07/25 13:02	1
2-Fluorophenol (Surr)	38		17 - 120	04/25/25 16:28	05/07/25 13:02	1
Nitrobenzene-d5 (Surr)	69		27 - 120	04/25/25 16:28	05/07/25 13:02	1
Phenol-d6 (Surr)	23		10 - 120	04/25/25 16:28	05/07/25 13:02	1
p-Terphenyl-d14 (Surr)	68		45 - 120	04/25/25 16:28	05/07/25 13:02	1

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS)

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	04/25/25 16:28	05/07/25 13:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	50		33 - 139	04/25/25 16:28	05/07/25 13:53	1
2-Fluorobiphenyl (Surr)	58		33 - 126	04/25/25 16:28	05/07/25 13:53	1
2-Fluorophenol (Surr)	32		12 - 120	04/25/25 16:28	05/07/25 13:53	1
Nitrobenzene-d5 (Surr)	70		36 - 120	04/25/25 16:28	05/07/25 13:53	1
Phenol-d6 (Surr)	22		10 - 120	04/25/25 16:28	05/07/25 13:53	1
p-Terphenyl-d14 (Surr)	60		47 - 131	04/25/25 16:28	05/07/25 13:53	1

Method: SW846 8015B GRO LL - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	<10		10	ug/L			04/28/25 21:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		38 - 134		04/28/25 21:56	1

Method: SW846 8015B - Diesel Range Organics (DRO) (GC) Low Level

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<25		25	ug/L		04/28/25 14:57	05/05/25 21:24	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		04/28/25 14:57	05/05/25 21:24	1
C8-C18	<25		25	ug/L		04/28/25 14:57	05/05/25 21:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	123		60 - 130	04/28/25 14:57	05/05/25 21:24	1

Client Sample ID: TB: Ka'amilo Wells

Lab Sample ID: 380-147415-2

Date Collected: 04/21/25 11:42

Matrix: Water

Date Received: 04/24/25 09:34

Method: SW846 8015B GRO LL - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	<10		10	ug/L			04/28/25 18:23	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-147415-1
SDG: Weekly

Client Sample ID: TB: Ka'amilo Wells

Lab Sample ID: 380-147415-2

Date Collected: 04/21/25 11:42

Matrix: Water

Date Received: 04/24/25 09:34

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		38 - 134		04/28/25 18:23	1

Client Sample ID: MOANALUA WELLS

Lab Sample ID: 380-147415-3

Date Collected: 04/21/25 09:26

Matrix: Water

Date Received: 04/24/25 09:34

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 15:22	1
2,4'-DDD	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 15:22	1
2,4'-DDE	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 15:22	1
2,4'-DDT	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 15:22	1
2,4-Dinitrotoluene	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 15:22	1
2,6-Dinitrotoluene	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 15:22	1
2-Methylnaphthalene	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 15:22	1
4,4'-DDD	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 15:22	1
4,4'-DDE	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 15:22	1
4,4'-DDT	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 15:22	1
Acenaphthene	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 15:22	1
Acenaphthylene	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 15:22	1
Acetochlor	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 15:22	1
Alachlor	<0.049		0.049	ug/L		04/28/25 09:22	04/29/25 15:22	1
alpha-BHC	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 15:22	1
alpha-Chlordane	<0.049		0.049	ug/L		04/28/25 09:22	04/29/25 15:22	1
Anthracene	<0.020		0.020	ug/L		04/28/25 09:22	04/29/25 15:22	1
Atrazine	<0.049		0.049	ug/L		04/28/25 09:22	04/29/25 15:22	1
Benz(a)anthracene	<0.049		0.049	ug/L		04/28/25 09:22	04/29/25 15:22	1
Benzo[a]pyrene	<0.020		0.020	ug/L		04/28/25 09:22	04/29/25 15:22	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		04/28/25 09:22	04/29/25 15:22	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		04/28/25 09:22	04/29/25 15:22	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		04/28/25 09:22	04/29/25 15:22	1
beta-BHC	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 15:22	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		04/28/25 09:22	04/29/25 15:22	1
Bromacil	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 15:22	1
Butachlor	<0.049		0.049	ug/L		04/28/25 09:22	04/29/25 15:22	1
Butylbenzylphthalate	<0.49		0.49	ug/L		04/28/25 09:22	04/29/25 15:22	1
Chlorobenzilate	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 15:22	1
Chloroneb	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 15:22	1
Chlorothalonil (Draconil, Bravo)	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 15:22	1
Chlorpyrifos	<0.049		0.049	ug/L		04/28/25 09:22	04/29/25 15:22	1
Chrysene	<0.020		0.020	ug/L		04/28/25 09:22	04/29/25 15:22	1
delta-BHC	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 15:22	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		04/28/25 09:22	04/29/25 15:22	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		04/28/25 09:22	04/29/25 15:22	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		04/28/25 09:22	04/29/25 15:22	1
Dieldrin	<0.0098		0.0098	ug/L		04/28/25 09:22	04/29/25 15:22	1
Diethylphthalate	<0.49		0.49	ug/L		04/28/25 09:22	04/29/25 15:22	1
Dimethylphthalate	<0.49		0.49	ug/L		04/28/25 09:22	04/29/25 15:22	1
Di-n-butyl phthalate	<0.98		0.98	ug/L		04/28/25 09:22	04/29/25 15:22	1
Di-n-octyl phthalate	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 15:22	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-147415-1
SDG: Weekly

Client Sample ID: MOANALUA WELLS

Lab Sample ID: 380-147415-3

Date Collected: 04/21/25 09:26

Matrix: Water

Date Received: 04/24/25 09:34

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan I (Alpha)	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 15:22	1
Endosulfan II (Beta)	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 15:22	1
Endosulfan sulfate	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 15:22	1
Endrin	<0.0098		0.0098	ug/L		04/28/25 09:22	04/29/25 15:22	1
Endrin aldehyde	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 15:22	1
EPTC	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 15:22	1
Fluoranthene	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 15:22	1
Fluorene	<0.049		0.049	ug/L		04/28/25 09:22	04/29/25 15:22	1
gamma-Chlordane	<0.049		0.049	ug/L		04/28/25 09:22	04/29/25 15:22	1
Heptachlor	<0.0098		0.0098	ug/L		04/28/25 09:22	04/29/25 15:22	1
Heptachlor epoxide (isomer B)	<0.0098		0.0098	ug/L		04/28/25 09:22	04/29/25 15:22	1
Hexachlorobenzene	<0.049		0.049	ug/L		04/28/25 09:22	04/29/25 15:22	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		04/28/25 09:22	04/29/25 15:22	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		04/28/25 09:22	04/29/25 15:22	1
Isophorone	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 15:22	1
Lindane	<0.0098		0.0098	ug/L		04/28/25 09:22	04/29/25 15:22	1
Malathion	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 15:22	1
Methoxychlor	<0.049		0.049	ug/L		04/28/25 09:22	04/29/25 15:22	1
Metolachlor	<0.049		0.049	ug/L		04/28/25 09:22	04/29/25 15:22	1
Molinate	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 15:22	1
Naphthalene	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 15:22	1
Parathion	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 15:22	1
Pendimethalin (Penoxaline)	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 15:22	1
Phenanthrene	<0.039		0.039	ug/L		04/28/25 09:22	04/29/25 15:22	1
Propachlor	<0.049		0.049	ug/L		04/28/25 09:22	04/29/25 15:22	1
Pyrene	<0.049		0.049	ug/L		04/28/25 09:22	04/29/25 15:22	1
Simazine	<0.049		0.049	ug/L		04/28/25 09:22	04/29/25 15:22	1
Terbacil	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 15:22	1
Terbutylazine	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 15:22	1
Thiobencarb	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 15:22	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		04/28/25 09:22	04/29/25 15:22	1
trans-Nonachlor	<0.049		0.049	ug/L		04/28/25 09:22	04/29/25 15:22	1
Trifluralin	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 15:22	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	04/28/25 09:22	04/29/25 15:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	97		70 - 130	04/28/25 09:22	04/29/25 15:22	1
Perylene-d12	93		70 - 130	04/28/25 09:22	04/29/25 15:22	1
Triphenylphosphate	108		70 - 130	04/28/25 09:22	04/29/25 15:22	1

Method: EPA 625.1 SIM - Semivolatile Organic Compounds GC/MS (SIM)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.19		0.19	ug/L		04/25/25 16:28	05/03/25 13:46	1
2-Methylnaphthalene	<0.19		0.19	ug/L		04/25/25 16:28	05/03/25 13:46	1
Acenaphthene	<0.19		0.19	ug/L		04/25/25 16:28	05/03/25 13:46	1
Acenaphthylene	<0.19		0.19	ug/L		04/25/25 16:28	05/03/25 13:46	1
Anthracene	<0.19		0.19	ug/L		04/25/25 16:28	05/03/25 13:46	1
Benzo[a]anthracene	<0.19		0.19	ug/L		04/25/25 16:28	05/03/25 13:46	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-147415-1
SDG: Weekly

Client Sample ID: MOANALUA WELLS

Lab Sample ID: 380-147415-3

Date Collected: 04/21/25 09:26

Matrix: Water

Date Received: 04/24/25 09:34

PWSID Number: HI0000331

Method: EPA 625.1 SIM - Semivolatile Organic Compounds GC/MS (SIM) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.19		0.19	ug/L		04/25/25 16:28	05/03/25 13:46	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		04/25/25 16:28	05/03/25 13:46	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		04/25/25 16:28	05/03/25 13:46	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		04/25/25 16:28	05/03/25 13:46	1
Chrysene	<0.19		0.19	ug/L		04/25/25 16:28	05/03/25 13:46	1
Dibenz(a,h)anthracene	<0.19		0.19	ug/L		04/25/25 16:28	05/03/25 13:46	1
Fluoranthene	<0.19		0.19	ug/L		04/25/25 16:28	05/03/25 13:46	1
Fluorene	<0.19		0.19	ug/L		04/25/25 16:28	05/03/25 13:46	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		04/25/25 16:28	05/03/25 13:46	1
Naphthalene	<0.19		0.19	ug/L		04/25/25 16:28	05/03/25 13:46	1
Phenanthrene	<0.19		0.19	ug/L		04/25/25 16:28	05/03/25 13:46	1
Pyrene	<0.19		0.19	ug/L		04/25/25 16:28	05/03/25 13:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	116		28 - 127	04/25/25 16:28	05/03/25 13:46	1
2-Fluorobiphenyl (Surr)	99		31 - 120	04/25/25 16:28	05/03/25 13:46	1
2-Fluorophenol (Surr)	47		17 - 120	04/25/25 16:28	05/03/25 13:46	1
Nitrobenzene-d5 (Surr)	97		27 - 120	04/25/25 16:28	05/03/25 13:46	1
Phenol-d6 (Surr)	27		10 - 120	04/25/25 16:28	05/03/25 13:46	1
p-Terphenyl-d14 (Surr)	95		45 - 120	04/25/25 16:28	05/03/25 13:46	1

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS)

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Malonic acid diisopropyl ester	14	T J N	ug/L		1.92	13195-64-7	04/25/25 16:28	05/07/25 14:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	70		33 - 139	04/25/25 16:28	05/07/25 14:16	1
2-Fluorobiphenyl (Surr)	83		33 - 126	04/25/25 16:28	05/07/25 14:16	1
2-Fluorophenol (Surr)	44		12 - 120	04/25/25 16:28	05/07/25 14:16	1
Nitrobenzene-d5 (Surr)	107		36 - 120	04/25/25 16:28	05/07/25 14:16	1
Phenol-d6 (Surr)	28		10 - 120	04/25/25 16:28	05/07/25 14:16	1
p-Terphenyl-d14 (Surr)	83		47 - 131	04/25/25 16:28	05/07/25 14:16	1

Method: SW846 8015B GRO LL - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	<10		10	ug/L			04/28/25 15:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		38 - 134		04/28/25 15:13	1

Method: SW846 8015B - Diesel Range Organics (DRO) (GC) Low Level

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<26		26	ug/L		04/28/25 14:57	05/05/25 19:39	1
Motor Oil Range Organics [C24-C36]	<26		26	ug/L		04/28/25 14:57	05/05/25 19:39	1
C8-C18	<26		26	ug/L		04/28/25 14:57	05/05/25 19:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	122		60 - 130	04/28/25 14:57	05/05/25 19:39	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-147415-1
SDG: Weekly

Client Sample ID: TB: MOANALUA WELLS
Date Collected: 04/21/25 09:26
Date Received: 04/24/25 09:34

Lab Sample ID: 380-147415-4
Matrix: Water

Method: SW846 8015B GRO LL - Gasoline Range Organics - (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
GRO (C6-C10)	<10		10	ug/L			04/28/25 18:48	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	85		38 - 134				04/28/25 18:48	1	

Action Limit Summary

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

Job ID: 380-147415-1
SDG: Weekly

Client Sample ID: Ka'amilo Wells
PWSID Number: HI0000331

Lab Sample ID: 380-147415-1

Compliance Check

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

Analyte	Result	Qualifier	Unit	EPAMCL	RL	Method	Prep Type
				Limit			
Alachlor	<0.049		ug/L	2	0.049	525.2	Total/NA
Atrazine	<0.049		ug/L	3	0.049	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		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	<0.0098		ug/L	2	0.0098	525.2	Total/NA
Heptachlor	<0.0098		ug/L	0.4	0.0098	525.2	Total/NA
Heptachlor epoxide (isomer B)	<0.0098		ug/L	0.2	0.0098	525.2	Total/NA
Hexachlorobenzene	<0.049		ug/L	1	0.049	525.2	Total/NA
Hexachlorocyclopentadiene	<0.049		ug/L	50	0.049	525.2	Total/NA
Lindane	<0.0098		ug/L	0.2	0.0098	525.2	Total/NA
Methoxychlor	<0.049		ug/L	40	0.049	525.2	Total/NA
Simazine	<0.049		ug/L	4	0.049	525.2	Total/NA
Benzo[a]pyrene	<0.19		ug/L	0.2	0.19	625.1 SIM	Total/NA

Client Sample ID: MOANALUA WELLS
PWSID Number: HI0000331

Lab Sample ID: 380-147415-3

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	<0.049		ug/L	2	0.049	525.2	Total/NA
Atrazine	<0.049		ug/L	3	0.049	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		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	<0.0098		ug/L	2	0.0098	525.2	Total/NA
Heptachlor	<0.0098		ug/L	0.4	0.0098	525.2	Total/NA
Heptachlor epoxide (isomer B)	<0.0098		ug/L	0.2	0.0098	525.2	Total/NA
Hexachlorobenzene	<0.049		ug/L	1	0.049	525.2	Total/NA
Hexachlorocyclopentadiene	<0.049		ug/L	50	0.049	525.2	Total/NA
Lindane	<0.0098		ug/L	0.2	0.0098	525.2	Total/NA
Methoxychlor	<0.049		ug/L	40	0.049	525.2	Total/NA
Simazine	<0.049		ug/L	4	0.049	525.2	Total/NA
Benzo[a]pyrene	<0.19		ug/L	0.2	0.19	625.1 SIM	Total/NA

Surrogate Summary

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

Job ID: 380-147415-1
SDG: Weekly

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

Matrix: Drinking Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	2NMX (70-130)	PRY (70-130)	TPP (70-130)
380-147415-1	Ka'amilo Wells	94	95	107

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

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	2NMX (70-130)	PRY (70-130)	TPP (70-130)
380-147405-I-1-A DU	Duplicate	96	89	109
380-147405-I-3-A MS	Matrix Spike	97	97	110
380-147415-3	MOANALUA WELLS	97	93	108
LCS 380-149604/23-A	Lab Control Sample	95	95	108
LCSD 380-149604/24-A	Lab Control Sample Dup	96	97	106
MB 380-149604/21-A	Method Blank	96	88	108
MRL 380-149604/22-A	Lab Control Sample	95	88	108

Surrogate Legend

2NMX = 2-Nitro-m-xylene

PRY = Perylene-d12

TPP = Triphenylphosphate

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Matrix: Drinking Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TBP (33-139)	FBP (33-126)	2FP (12-120)	NBZ (36-120)	PHL6 (10-120)	TPHd14 (47-131)
380-147415-1	Ka'amilo Wells	50	58	32	70	22	60

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)

FBP = 2-Fluorobiphenyl (Surr)

2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

PHL6 = Phenol-d6 (Surr)

TPHd14 = p-Terphenyl-d14 (Surr)

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TBP (33-139)	FBP (33-126)	2FP (12-120)	NBZ (36-120)	PHL6 (10-120)	TPHd14 (47-131)
380-147415-3	MOANALUA WELLS	70	83	44	107	28	83
MB 570-563059/1-A	Method Blank	78	81	47	105	33	85

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)

Eurofins Eaton Analytical Pomona

Surrogate Summary

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

Job ID: 380-147415-1
SDG: Weekly

FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL6 = Phenol-d6 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

Method: 625.1 SIM - Semivolatile Organic Compounds GC/MS (SIM)

Matrix: Drinking Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (28-127)	FBP (31-120)	2FP (17-120)	NBZ (27-120)	PHL6 (10-120)	TPHd14 (45-120)
380-147415-1	Ka'amilo Wells	84	67	38	69	23	68

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL6 = Phenol-d6 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

Method: 625.1 SIM - Semivolatile Organic Compounds GC/MS (SIM)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (28-127)	FBP (31-120)	2FP (17-120)	NBZ (27-120)	PHL6 (10-120)	TPHd14 (45-120)
380-147415-3	MOANALUA WELLS	116	99	47	97	27	95
380-147415-3 MS	MOANALUA WELLS	115	93	61	91	37	97
380-147415-3 MSD	MOANALUA WELLS	109	91	61	94	38	97
LCS 570-563059/2-A	Lab Control Sample	116	102	63	85	39	104
LCSD 570-563059/3-A	Lab Control Sample Dup	113	88	61	80	39	105
MB 570-563059/1-A	Method Blank	119	90	51	97	31	102

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL6 = Phenol-d6 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

Method: 8015B GRO LL - Gasoline Range Organics - (GC)

Matrix: Drinking Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		BFB1 (38-134)					
380-147415-1	Ka'amilo Wells	83					

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

Surrogate Summary

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

Job ID: 380-147415-1
SDG: Weekly

Method: 8015B GRO LL - Gasoline Range Organics - (GC)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (38-134)
380-147415-2	TB: Ka'amilo Wells	84
380-147415-3	MOANALUA WELLS	86
380-147415-3 MS	MOANALUA WELLS	92
380-147415-3 MSD	MOANALUA WELLS	90
380-147415-4	TB: MOANALUA WELLS	85
LCS 570-563681/4	Lab Control Sample	89
LCSD 570-563681/5	Lab Control Sample Dup	87
MB 570-563681/6	Method Blank	81
MRL 570-563681/3	Lab Control Sample	85

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

Method: 8015B - Diesel Range Organics (DRO) (GC) Low Level

Matrix: Drinking Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	OTCSN1 (60-130)
380-147415-1	Ka'amilo Wells	123

Surrogate Legend

OTCSN = n-Octacosane (Surr)

Method: 8015B - Diesel Range Organics (DRO) (GC) Low Level

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	OTCSN1 (60-130)
380-147415-3	MOANALUA WELLS	122
380-147415-3 MS	MOANALUA WELLS	124
380-147415-3 MSD	MOANALUA WELLS	113
LCS 570-563894/2-B	Lab Control Sample	120
LCSD 570-563894/3-B	Lab Control Sample Dup	124
MB 570-563894/1-B	Method Blank	134 S1+
MRL 570-563894/4-B	Lab Control Sample	126

Surrogate Legend

OTCSN = n-Octacosane (Surr)

QC Sample Results

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

Job ID: 380-147415-1
SDG: Weekly

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

Lab Sample ID: MB 380-149604/21-A

Matrix: Water

Analysis Batch: 149781

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 149604

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.097		0.097	ug/L		04/28/25 09:22	04/29/25 12:40	1
2,4'-DDD	<0.097		0.097	ug/L		04/28/25 09:22	04/29/25 12:40	1
2,4'-DDE	<0.097		0.097	ug/L		04/28/25 09:22	04/29/25 12:40	1
2,4'-DDT	<0.097		0.097	ug/L		04/28/25 09:22	04/29/25 12:40	1
2,4-Dinitrotoluene	<0.097		0.097	ug/L		04/28/25 09:22	04/29/25 12:40	1
2,6-Dinitrotoluene	<0.097		0.097	ug/L		04/28/25 09:22	04/29/25 12:40	1
2-Methylnaphthalene	<0.097		0.097	ug/L		04/28/25 09:22	04/29/25 12:40	1
4,4'-DDD	<0.097		0.097	ug/L		04/28/25 09:22	04/29/25 12:40	1
4,4'-DDE	<0.097		0.097	ug/L		04/28/25 09:22	04/29/25 12:40	1
4,4'-DDT	<0.097		0.097	ug/L		04/28/25 09:22	04/29/25 12:40	1
Acenaphthene	<0.097		0.097	ug/L		04/28/25 09:22	04/29/25 12:40	1
Acenaphthylene	<0.097		0.097	ug/L		04/28/25 09:22	04/29/25 12:40	1
Acetochlor	<0.097		0.097	ug/L		04/28/25 09:22	04/29/25 12:40	1
Alachlor	<0.048		0.048	ug/L		04/28/25 09:22	04/29/25 12:40	1
alpha-BHC	<0.097		0.097	ug/L		04/28/25 09:22	04/29/25 12:40	1
alpha-Chlordane	<0.048		0.048	ug/L		04/28/25 09:22	04/29/25 12:40	1
Anthracene	<0.019		0.019	ug/L		04/28/25 09:22	04/29/25 12:40	1
Atrazine	<0.048		0.048	ug/L		04/28/25 09:22	04/29/25 12:40	1
Benz(a)anthracene	<0.048		0.048	ug/L		04/28/25 09:22	04/29/25 12:40	1
Benzo[a]pyrene	<0.019		0.019	ug/L		04/28/25 09:22	04/29/25 12:40	1
Benzo[b]fluoranthene	<0.019		0.019	ug/L		04/28/25 09:22	04/29/25 12:40	1
Benzo[g,h,i]perylene	<0.048		0.048	ug/L		04/28/25 09:22	04/29/25 12:40	1
Benzo[k]fluoranthene	<0.019		0.019	ug/L		04/28/25 09:22	04/29/25 12:40	1
beta-BHC	<0.097		0.097	ug/L		04/28/25 09:22	04/29/25 12:40	1
Bis(2-ethylhexyl) phthalate	<0.58		0.58	ug/L		04/28/25 09:22	04/29/25 12:40	1
Bromacil	<0.097		0.097	ug/L		04/28/25 09:22	04/29/25 12:40	1
Butachlor	<0.048		0.048	ug/L		04/28/25 09:22	04/29/25 12:40	1
Butylbenzylphthalate	<0.48		0.48	ug/L		04/28/25 09:22	04/29/25 12:40	1
Chlorobenzilate	<0.097		0.097	ug/L		04/28/25 09:22	04/29/25 12:40	1
Chloroneb	<0.097		0.097	ug/L		04/28/25 09:22	04/29/25 12:40	1
Chlorothalonil (Draconil, Bravo)	<0.097		0.097	ug/L		04/28/25 09:22	04/29/25 12:40	1
Chlorpyrifos	<0.048		0.048	ug/L		04/28/25 09:22	04/29/25 12:40	1
Chrysene	<0.019		0.019	ug/L		04/28/25 09:22	04/29/25 12:40	1
delta-BHC	<0.097		0.097	ug/L		04/28/25 09:22	04/29/25 12:40	1
Di(2-ethylhexyl)adipate	<0.58		0.58	ug/L		04/28/25 09:22	04/29/25 12:40	1
Dibenz(a,h)anthracene	<0.048		0.048	ug/L		04/28/25 09:22	04/29/25 12:40	1
Diclorvos (DDVP)	<0.048		0.048	ug/L		04/28/25 09:22	04/29/25 12:40	1
Dieldrin	<0.0097		0.0097	ug/L		04/28/25 09:22	04/29/25 12:40	1
Diethylphthalate	<0.48		0.48	ug/L		04/28/25 09:22	04/29/25 12:40	1
Dimethylphthalate	<0.48		0.48	ug/L		04/28/25 09:22	04/29/25 12:40	1
Di-n-butyl phthalate	<0.97		0.97	ug/L		04/28/25 09:22	04/29/25 12:40	1
Di-n-octyl phthalate	<0.097		0.097	ug/L		04/28/25 09:22	04/29/25 12:40	1
Endosulfan I (Alpha)	<0.097		0.097	ug/L		04/28/25 09:22	04/29/25 12:40	1
Endosulfan II (Beta)	<0.097		0.097	ug/L		04/28/25 09:22	04/29/25 12:40	1
Endosulfan sulfate	<0.097		0.097	ug/L		04/28/25 09:22	04/29/25 12:40	1
Endrin	<0.0097		0.0097	ug/L		04/28/25 09:22	04/29/25 12:40	1
Endrin aldehyde	<0.097		0.097	ug/L		04/28/25 09:22	04/29/25 12:40	1
EPTC	<0.097		0.097	ug/L		04/28/25 09:22	04/29/25 12:40	1

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QC Sample Results

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

Job ID: 380-147415-1
SDG: Weekly

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

Lab Sample ID: MB 380-149604/21-A

Matrix: Water

Analysis Batch: 149781

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 149604

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.097		0.097	ug/L		04/28/25 09:22	04/29/25 12:40	1
Fluorene	<0.048		0.048	ug/L		04/28/25 09:22	04/29/25 12:40	1
gamma-Chlordane	<0.048		0.048	ug/L		04/28/25 09:22	04/29/25 12:40	1
Heptachlor	<0.0097		0.0097	ug/L		04/28/25 09:22	04/29/25 12:40	1
Heptachlor epoxide (isomer B)	<0.0097		0.0097	ug/L		04/28/25 09:22	04/29/25 12:40	1
Hexachlorobenzene	<0.048		0.048	ug/L		04/28/25 09:22	04/29/25 12:40	1
Hexachlorocyclopentadiene	<0.048		0.048	ug/L		04/28/25 09:22	04/29/25 12:40	1
Indeno[1,2,3-cd]pyrene	<0.048		0.048	ug/L		04/28/25 09:22	04/29/25 12:40	1
Isophorone	<0.097		0.097	ug/L		04/28/25 09:22	04/29/25 12:40	1
Lindane	<0.0097		0.0097	ug/L		04/28/25 09:22	04/29/25 12:40	1
Malathion	<0.097		0.097	ug/L		04/28/25 09:22	04/29/25 12:40	1
Methoxychlor	<0.048		0.048	ug/L		04/28/25 09:22	04/29/25 12:40	1
Metolachlor	<0.048		0.048	ug/L		04/28/25 09:22	04/29/25 12:40	1
Molinate	<0.097		0.097	ug/L		04/28/25 09:22	04/29/25 12:40	1
Naphthalene	<0.097		0.097	ug/L		04/28/25 09:22	04/29/25 12:40	1
Parathion	<0.097		0.097	ug/L		04/28/25 09:22	04/29/25 12:40	1
Pendimethalin (Penoxaline)	<0.097		0.097	ug/L		04/28/25 09:22	04/29/25 12:40	1
Phenanthrene	<0.039		0.039	ug/L		04/28/25 09:22	04/29/25 12:40	1
Propachlor	<0.048		0.048	ug/L		04/28/25 09:22	04/29/25 12:40	1
Pyrene	<0.048		0.048	ug/L		04/28/25 09:22	04/29/25 12:40	1
Simazine	<0.048		0.048	ug/L		04/28/25 09:22	04/29/25 12:40	1
Terbacil	<0.097		0.097	ug/L		04/28/25 09:22	04/29/25 12:40	1
Terbutylazine	<0.097		0.097	ug/L		04/28/25 09:22	04/29/25 12:40	1
Thiobencarb	<0.097		0.097	ug/L		04/28/25 09:22	04/29/25 12:40	1
Total Permethrin (mixed isomers)	<0.19		0.19	ug/L		04/28/25 09:22	04/29/25 12:40	1
trans-Nonachlor	<0.048		0.048	ug/L		04/28/25 09:22	04/29/25 12:40	1
Trifluralin	<0.097		0.097	ug/L		04/28/25 09:22	04/29/25 12:40	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
9-Octadecenamide, (Z)-	2.40	T J N	ug/L		8.04	301-02-0	04/28/25 09:22	04/29/25 12:40	1
Unknown	0.766	T J	ug/L		10.63	N/A	04/28/25 09:22	04/29/25 12:40	1
Unknown	0.544	T J	ug/L		11.52	N/A	04/28/25 09:22	04/29/25 12:40	1
Unknown	0.954	T J	ug/L		15.82	N/A	04/28/25 09:22	04/29/25 12:40	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	96		70 - 130	04/28/25 09:22	04/29/25 12:40	1
Perylene-d12	88		70 - 130	04/28/25 09:22	04/29/25 12:40	1
Triphenylphosphate	108		70 - 130	04/28/25 09:22	04/29/25 12:40	1

Lab Sample ID: LCS 380-149604/23-A

Matrix: Water

Analysis Batch: 149781

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 149604

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	1.95	1.95		ug/L		100	70 - 130
2,4'-DDD	1.95	2.07		ug/L		106	70 - 130
2,4'-DDE	1.95	2.17		ug/L		112	70 - 130
2,4'-DDT	1.95	2.01		ug/L		103	70 - 130

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QC Sample Results

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

Job ID: 380-147415-1
SDG: Weekly

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

Lab Sample ID: LCS 380-149604/23-A

Matrix: Water

Analysis Batch: 149781

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 149604

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4-Dinitrotoluene	1.95	1.95		ug/L		100	70 - 130
2,6-Dinitrotoluene	1.95	2.14		ug/L		110	70 - 130
2-Methylnaphthalene	1.95	1.97		ug/L		101	70 - 130
4,4'-DDD	1.95	2.06		ug/L		106	70 - 130
4,4'-DDE	1.95	2.30		ug/L		118	70 - 130
4,4'-DDT	1.95	2.05		ug/L		105	70 - 130
Acenaphthene	1.95	2.00		ug/L		103	70 - 130
Acenaphthylene	1.95	2.02		ug/L		104	70 - 130
Acetochlor	1.95	2.12		ug/L		109	70 - 130
Alachlor	1.95	2.19		ug/L		112	70 - 130
alpha-BHC	1.95	2.00		ug/L		102	70 - 130
alpha-Chlordane	1.95	2.27		ug/L		117	70 - 130
Anthracene	1.95	2.07		ug/L		106	70 - 130
Atrazine	1.95	2.33		ug/L		120	70 - 130
Benz(a)anthracene	1.95	2.02		ug/L		104	70 - 130
Benzo[a]pyrene	1.95	2.01		ug/L		103	70 - 130
Benzo[b]fluoranthene	1.95	2.33		ug/L		120	70 - 130
Benzo[g,h,i]perylene	1.95	2.05		ug/L		105	70 - 130
Benzo[k]fluoranthene	1.95	2.00		ug/L		103	70 - 130
beta-BHC	1.95	2.09		ug/L		107	70 - 130
Bis(2-ethylhexyl) phthalate	1.95	1.93		ug/L		99	70 - 130
Bromacil	1.95	1.95		ug/L		100	70 - 130
Butachlor	1.95	2.16		ug/L		111	70 - 130
Butylbenzylphthalate	1.95	2.18		ug/L		112	70 - 130
Chlorobenzilate	1.95	2.13		ug/L		109	70 - 130
Chloroneb	1.95	2.03		ug/L		104	70 - 130
Chlorothalonil (Draconil, Bravo)	1.95	2.41		ug/L		124	70 - 130
Chlorpyrifos	1.95	2.17		ug/L		112	70 - 130
Chrysene	1.95	2.00		ug/L		103	70 - 130
delta-BHC	1.95	1.99		ug/L		102	70 - 130
Di(2-ethylhexyl)adipate	1.95	2.17		ug/L		112	70 - 130
Dibenz(a,h)anthracene	1.95	2.13		ug/L		110	70 - 130
Diclorvos (DDVP)	1.95	1.99		ug/L		102	70 - 130
Dieldrin	1.95	2.17		ug/L		112	70 - 130
Diethylphthalate	1.95	2.15		ug/L		110	70 - 130
Dimethylphthalate	1.95	2.09		ug/L		107	70 - 130
Di-n-butyl phthalate	3.89	4.16		ug/L		107	70 - 130
Di-n-octyl phthalate	1.95	1.86		ug/L		96	70 - 130
Endosulfan I (Alpha)	1.95	2.00		ug/L		103	70 - 130
Endosulfan II (Beta)	1.95	1.94		ug/L		100	70 - 130
Endosulfan sulfate	1.95	2.27		ug/L		117	70 - 130
Endrin	1.95	2.29		ug/L		118	70 - 130
Endrin aldehyde	1.95	2.24		ug/L		115	60 - 130
EPTC	1.95	2.10		ug/L		108	70 - 130
Fluoranthene	1.95	2.16		ug/L		111	70 - 130
Fluorene	1.95	2.10		ug/L		108	70 - 130
gamma-Chlordane	1.95	2.23		ug/L		115	70 - 130
Heptachlor	1.95	2.32		ug/L		119	70 - 130
Heptachlor epoxide (isomer B)	1.95	2.26		ug/L		116	70 - 130

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QC Sample Results

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

Job ID: 380-147415-1
SDG: Weekly

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

Lab Sample ID: LCS 380-149604/23-A

Matrix: Water

Analysis Batch: 149781

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 149604

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Hexachlorobenzene	1.95	2.22		ug/L		114	70 - 130
Hexachlorocyclopentadiene	1.95	2.16		ug/L		111	70 - 130
Indeno[1,2,3-cd]pyrene	1.95	2.14		ug/L		110	70 - 130
Isophorone	1.95	1.91		ug/L		98	70 - 130
Lindane	1.95	2.12		ug/L		109	70 - 130
Malathion	1.95	2.23		ug/L		114	70 - 130
Methoxychlor	1.95	2.13		ug/L		110	70 - 130
Metolachlor	1.95	2.05		ug/L		105	70 - 130
Molinate	1.95	2.15		ug/L		111	70 - 130
Naphthalene	1.95	1.89		ug/L		97	70 - 130
Parathion	1.95	2.29		ug/L		118	70 - 130
Pendimethalin (Penoxaline)	1.95	2.18		ug/L		112	70 - 130
Phenanthrene	1.95	1.95		ug/L		100	70 - 130
Propachlor	1.95	2.15		ug/L		110	70 - 130
Pyrene	1.95	2.23		ug/L		115	70 - 130
Simazine	1.95	2.19		ug/L		113	70 - 130
Terbacil	1.95	2.15		ug/L		111	70 - 130
Terbutylazine	1.95	2.29		ug/L		117	70 - 130
Thiobencarb	1.95	2.21		ug/L		113	70 - 130
trans-Nonachlor	1.95	2.19		ug/L		112	70 - 130
Trifluralin	1.95	2.11		ug/L		108	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Nitro-m-xylene	95		70 - 130
Perylene-d12	95		70 - 130
Triphenylphosphate	108		70 - 130

Lab Sample ID: LCSD 380-149604/24-A

Matrix: Water

Analysis Batch: 149781

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 149604

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	1.94	1.95		ug/L		100	70 - 130	0	20
2,4'-DDD	1.94	2.07		ug/L		106	70 - 130	0	20
2,4'-DDE	1.94	2.18		ug/L		112	70 - 130	0	20
2,4'-DDT	1.94	1.98		ug/L		102	70 - 130	2	20
2,4-Dinitrotoluene	1.94	1.89		ug/L		97	70 - 130	3	20
2,6-Dinitrotoluene	1.94	2.11		ug/L		108	70 - 130	1	20
2-Methylnaphthalene	1.94	2.00		ug/L		103	70 - 130	2	20
4,4'-DDD	1.94	2.09		ug/L		107	70 - 130	1	20
4,4'-DDE	1.94	2.30		ug/L		118	70 - 130	0	20
4,4'-DDT	1.94	2.06		ug/L		106	70 - 130	0	20
Acenaphthene	1.94	1.99		ug/L		102	70 - 130	1	20
Acenaphthylene	1.94	1.97		ug/L		102	70 - 130	2	20
Acetochlor	1.94	2.11		ug/L		108	70 - 130	0	20
Alachlor	1.94	2.15		ug/L		111	70 - 130	2	20
alpha-BHC	1.94	2.02		ug/L		104	70 - 130	1	20
alpha-Chlordane	1.94	2.26		ug/L		116	70 - 130	0	20

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-147415-1
SDG: Weekly

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

Lab Sample ID: LCSD 380-149604/24-A

Matrix: Water

Analysis Batch: 149781

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 149604

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Anthracene	1.94	2.00		ug/L		103	70 - 130	3	20
Atrazine	1.94	2.31		ug/L		119	70 - 130	1	20
Benz(a)anthracene	1.94	2.04		ug/L		105	70 - 130	1	20
Benzo[a]pyrene	1.94	2.02		ug/L		104	70 - 130	1	20
Benzo[b]fluoranthene	1.94	2.41		ug/L		124	70 - 130	3	20
Benzo[g,h,i]perylene	1.94	2.10		ug/L		108	70 - 130	3	20
Benzo[k]fluoranthene	1.94	2.02		ug/L		104	70 - 130	1	20
beta-BHC	1.94	2.05		ug/L		106	70 - 130	2	20
Bis(2-ethylhexyl) phthalate	1.94	1.96		ug/L		101	70 - 130	2	20
Bromacil	1.94	1.97		ug/L		101	70 - 130	1	20
Butachlor	1.94	2.13		ug/L		110	70 - 130	1	20
Butylbenzylphthalate	1.94	2.16		ug/L		111	70 - 130	1	20
Chlorobenzilate	1.94	2.11		ug/L		108	70 - 130	1	20
Chloroneb	1.94	2.06		ug/L		106	70 - 130	1	20
Chlorothalonil (Draconil, Bravo)	1.94	2.37		ug/L		122	70 - 130	2	20
Chlorpyrifos	1.94	2.17		ug/L		111	70 - 130	0	20
Chrysene	1.94	2.05		ug/L		106	70 - 130	2	20
delta-BHC	1.94	1.99		ug/L		102	70 - 130	0	20
Di(2-ethylhexyl)adipate	1.94	2.15		ug/L		111	70 - 130	1	20
Dibenz(a,h)anthracene	1.94	2.17		ug/L		111	70 - 130	2	20
Diclorvos (DDVP)	1.94	1.99		ug/L		103	70 - 130	0	20
Dieldrin	1.94	2.13		ug/L		110	70 - 130	2	20
Diethylphthalate	1.94	2.16		ug/L		111	70 - 130	0	20
Dimethylphthalate	1.94	2.10		ug/L		108	70 - 130	1	20
Di-n-butyl phthalate	3.89	4.33		ug/L		111	70 - 130	4	20
Di-n-octyl phthalate	1.94	1.96		ug/L		101	70 - 130	5	20
Endosulfan I (Alpha)	1.94	1.97		ug/L		101	70 - 130	2	20
Endosulfan II (Beta)	1.94	1.97		ug/L		101	70 - 130	1	20
Endosulfan sulfate	1.94	2.27		ug/L		117	70 - 130	0	20
Endrin	1.94	2.26		ug/L		116	70 - 130	1	20
Endrin aldehyde	1.94	2.10		ug/L		108	60 - 130	6	20
EPTC	1.94	2.12		ug/L		109	70 - 130	1	20
Fluoranthene	1.94	2.15		ug/L		110	70 - 130	1	20
Fluorene	1.94	2.11		ug/L		109	70 - 130	0	20
gamma-Chlordane	1.94	2.18		ug/L		112	70 - 130	2	20
Heptachlor	1.94	2.35		ug/L		121	70 - 130	1	20
Heptachlor epoxide (isomer B)	1.94	2.24		ug/L		115	70 - 130	1	20
Hexachlorobenzene	1.94	2.19		ug/L		112	70 - 130	2	20
Hexachlorocyclopentadiene	1.94	2.17		ug/L		111	70 - 130	0	20
Indeno[1,2,3-cd]pyrene	1.94	2.13		ug/L		110	70 - 130	0	20
Isophorone	1.94	1.94		ug/L		100	70 - 130	2	20
Lindane	1.94	2.09		ug/L		107	70 - 130	1	20
Malathion	1.94	2.20		ug/L		113	70 - 130	1	20
Methoxychlor	1.94	2.16		ug/L		111	70 - 130	1	20
Metolachlor	1.94	2.00		ug/L		103	70 - 130	2	20
Molinate	1.94	2.17		ug/L		112	70 - 130	1	20
Naphthalene	1.94	1.87		ug/L		96	70 - 130	1	20
Parathion	1.94	2.23		ug/L		115	70 - 130	3	20
Pendimethalin (Penoxaline)	1.94	2.11		ug/L		109	70 - 130	3	20

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-147415-1
SDG: Weekly

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

Lab Sample ID: LCSD 380-149604/24-A

Matrix: Water

Analysis Batch: 149781

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 149604

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenanthrene	1.94	1.93		ug/L		99	70 - 130	1	20
Propachlor	1.94	2.17		ug/L		112	70 - 130	1	20
Pyrene	1.94	2.20		ug/L		113	70 - 130	2	20
Simazine	1.94	2.17		ug/L		112	70 - 130	1	20
Terbacil	1.94	2.07		ug/L		107	70 - 130	4	20
Terbutylazine	1.94	2.30		ug/L		118	70 - 130	0	20
Thiobencarb	1.94	2.19		ug/L		113	70 - 130	1	20
trans-Nonachlor	1.94	2.15		ug/L		111	70 - 130	1	20
Trifluralin	1.94	2.08		ug/L		107	70 - 130	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Nitro-m-xylene	96		70 - 130
Perylene-d12	97		70 - 130
Triphenylphosphate	106		70 - 130

Lab Sample ID: MRL 380-149604/22-A

Matrix: Water

Analysis Batch: 149781

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 149604

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	0.0977	0.112		ug/L		115	50 - 150
2,4'-DDD	0.0977	0.0876	J	ug/L		90	50 - 150
2,4'-DDE	0.0977	0.0977	J	ug/L		100	50 - 150
2,4'-DDT	0.0977	0.109		ug/L		112	50 - 150
2,4-Dinitrotoluene	0.0977	0.103		ug/L		106	50 - 150
2,6-Dinitrotoluene	0.0977	0.118		ug/L		121	50 - 150
2-Methylnaphthalene	0.0977	0.105		ug/L		108	50 - 150
4,4'-DDD	0.0977	0.111		ug/L		113	50 - 150
4,4'-DDE	0.0977	0.104		ug/L		106	50 - 150
4,4'-DDT	0.0977	0.113		ug/L		115	50 - 150
Acenaphthene	0.0977	0.0990		ug/L		101	50 - 150
Acenaphthylene	0.0977	0.0922	J	ug/L		94	50 - 150
Acetochlor	0.0977	0.110		ug/L		112	50 - 150
Alachlor	0.0489	0.0509		ug/L		104	50 - 150
alpha-BHC	0.0977	0.104		ug/L		107	50 - 150
alpha-Chlordane	0.0244	<0.028		ug/L		109	50 - 150
Anthracene	0.0195	0.0203		ug/L		104	50 - 150
Atrazine	0.0489	0.0557		ug/L		114	50 - 150
Benz(a)anthracene	0.0489	0.0544		ug/L		111	50 - 150
Benzo[a]pyrene	0.0195	0.0240		ug/L		123	50 - 150
Benzo[b]fluoranthene	0.0195	0.0211		ug/L		108	50 - 150
Benzo[g,h,i]perylene	0.0489	0.0513		ug/L		105	50 - 150
Benzo[k]fluoranthene	0.0195	0.0231		ug/L		118	50 - 150
beta-BHC	0.0977	0.109		ug/L		112	50 - 150
Bis(2-ethylhexyl) phthalate	0.586	0.590		ug/L		101	50 - 150
Bromacil	0.0977	0.109		ug/L		112	50 - 150
Butachlor	0.0489	0.0588		ug/L		120	50 - 150
Butylbenzylphthalate	0.489	0.549		ug/L		112	50 - 150

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-147415-1
SDG: Weekly

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

Lab Sample ID: MRL 380-149604/22-A

Matrix: Water

Analysis Batch: 149781

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 149604

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chlorobenzilate	0.0977	0.111		ug/L		113	50 - 150
Chloroneb	0.0977	0.102		ug/L		105	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0977	0.101		ug/L		104	50 - 150
Chlorpyrifos	0.0489	0.0498		ug/L		102	50 - 150
Chrysene	0.0195	0.0204		ug/L		104	50 - 150
delta-BHC	0.0977	0.101		ug/L		103	50 - 150
Di(2-ethylhexyl)adipate	0.586	0.654		ug/L		112	50 - 150
Dibenz(a,h)anthracene	0.0489	0.0554		ug/L		113	50 - 150
Diclorvos (DDVP)	0.0489	0.0555		ug/L		114	50 - 150
Dieldrin	0.00977	0.0143		ug/L		146	50 - 150
Diethylphthalate	0.489	0.539		ug/L		110	50 - 150
Dimethylphthalate	0.489	0.512		ug/L		105	50 - 150
Di-n-butyl phthalate	0.489	0.561	J	ug/L		115	49 - 243
Di-n-octyl phthalate	0.0977	0.106		ug/L		109	50 - 150
Endosulfan I (Alpha)	0.0977	0.0999		ug/L		102	50 - 150
Endosulfan II (Beta)	0.0977	0.0987		ug/L		101	50 - 150
Endosulfan sulfate	0.0977	0.100		ug/L		103	50 - 150
Endrin	0.00977	0.0121		ug/L		124	50 - 150
Endrin aldehyde	0.0977	0.113		ug/L		115	50 - 150
EPTC	0.0977	0.101		ug/L		103	50 - 150
Fluoranthene	0.0977	0.0963	J	ug/L		99	50 - 150
Fluorene	0.0489	0.0518		ug/L		106	50 - 150
gamma-Chlordane	0.0244	0.0272	J	ug/L		111	50 - 150
Heptachlor	0.00977	0.0116		ug/L		119	50 - 150
Heptachlor epoxide (isomer B)	0.00977	0.0132		ug/L		135	50 - 150
Hexachlorobenzene	0.0489	0.0504		ug/L		103	50 - 150
Hexachlorocyclopentadiene	0.0489	0.0459	J	ug/L		94	50 - 150
Indeno[1,2,3-cd]pyrene	0.0489	0.0664		ug/L		136	50 - 150
Isophorone	0.0977	0.114		ug/L		116	50 - 150
Lindane	0.00977	0.0133		ug/L		136	50 - 150
Malathion	0.0977	0.105		ug/L		107	50 - 150
Methoxychlor	0.0489	0.0581		ug/L		119	50 - 150
Metolachlor	0.0489	0.0539		ug/L		110	50 - 150
Molinate	0.0977	0.106		ug/L		109	50 - 150
Naphthalene	0.0977	0.0969	J	ug/L		99	50 - 150
Parathion	0.0977	0.0990		ug/L		101	50 - 150
Pendimethalin (Penoxaline)	0.0977	0.102		ug/L		105	50 - 150
Phenanthrene	0.0391	0.0406		ug/L		104	50 - 150
Propachlor	0.0489	0.0540		ug/L		110	50 - 150
Pyrene	0.0489	0.0490		ug/L		100	50 - 150
Simazine	0.0489	0.0513		ug/L		105	50 - 150
Terbacil	0.0977	0.112		ug/L		114	50 - 150
Terbutylazine	0.0977	0.104		ug/L		107	50 - 150
Thiobencarb	0.0977	0.108		ug/L		111	50 - 150
trans-Nonachlor	0.0244	0.0262	J	ug/L		107	50 - 150
Trifluralin	0.0977	0.109		ug/L		111	50 - 150

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-147415-1
SDG: Weekly

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

Lab Sample ID: MRL 380-149604/22-A

Matrix: Water

Analysis Batch: 149781

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 149604

Surrogate	MRL %Recovery	MRL Qualifier	Limits
2-Nitro-m-xylene	95		70 - 130
Perylene-d12	88		70 - 130
Triphenylphosphate	108		70 - 130

Lab Sample ID: 380-147405-I-3-A MS

Matrix: Water

Analysis Batch: 149781

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 149604

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.098		1.96	1.94		ug/L		99	70 - 130
2,4'-DDD	<0.098		1.96	2.08		ug/L		106	70 - 130
2,4'-DDE	<0.098		1.96	2.16		ug/L		110	70 - 130
2,4'-DDT	<0.098		1.96	2.01		ug/L		102	70 - 130
2,4-Dinitrotoluene	<0.098		1.96	1.97		ug/L		101	70 - 130
2,6-Dinitrotoluene	<0.098		1.96	2.16		ug/L		110	70 - 130
2-Methylnaphthalene	<0.098		1.96	1.98		ug/L		101	70 - 130
4,4'-DDD	<0.098		1.96	2.12		ug/L		108	70 - 130
4,4'-DDE	<0.098		1.96	2.23		ug/L		114	70 - 130
4,4'-DDT	<0.098		1.96	2.05		ug/L		105	70 - 130
Acenaphthene	<0.098		1.96	2.00		ug/L		102	70 - 130
Acenaphthylene	<0.098		1.96	1.97		ug/L		101	70 - 130
Acetochlor	<0.098		1.96	2.17		ug/L		111	70 - 130
Alachlor	<0.049		1.96	2.23		ug/L		114	70 - 130
alpha-BHC	<0.098		1.96	2.04		ug/L		104	70 - 130
alpha-Chlordane	<0.049		1.96	2.33		ug/L		119	70 - 130
Anthracene	<0.020		1.96	1.65		ug/L		84	70 - 130
Atrazine	<0.049		1.96	2.29		ug/L		117	70 - 130
Benz(a)anthracene	<0.049		1.96	1.96		ug/L		100	70 - 130
Benzo[a]pyrene	<0.020		1.96	1.89		ug/L		97	70 - 130
Benzo[b]fluoranthene	<0.020		1.96	2.38		ug/L		121	70 - 130
Benzo[g,h,i]perylene	<0.049		1.96	2.10		ug/L		107	70 - 130
Benzo[k]fluoranthene	<0.020		1.96	1.98		ug/L		101	70 - 130
beta-BHC	<0.098		1.96	2.13		ug/L		109	70 - 130
Bis(2-ethylhexyl) phthalate	<0.59		1.96	1.78		ug/L		91	70 - 130
Bromacil	<0.098		1.96	2.00		ug/L		102	70 - 130
Butachlor	<0.049		1.96	2.19		ug/L		112	70 - 130
Butylbenzylphthalate	<0.49		1.96	2.20		ug/L		112	70 - 130
Chlorobenzilate	<0.098		1.96	2.16		ug/L		110	70 - 130
Chloroneb	<0.098		1.96	2.03		ug/L		104	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.098		1.96	2.46		ug/L		126	70 - 130
Chlorpyrifos	<0.049		1.96	2.21		ug/L		113	70 - 130
Chrysene	<0.020		1.96	2.05		ug/L		105	70 - 130
delta-BHC	<0.098		1.96	2.04		ug/L		104	70 - 130
Di(2-ethylhexyl)adipate	<0.59		1.96	2.02		ug/L		103	70 - 130
Dibenz(a,h)anthracene	<0.049		1.96	2.11		ug/L		108	70 - 130
Diclorvos (DDVP)	<0.049		1.96	1.95		ug/L		100	70 - 130
Dieldrin	<0.0098		1.96	2.23		ug/L		114	70 - 130
Diethylphthalate	<0.49		1.96	2.16		ug/L		110	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-147415-1
SDG: Weekly

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

Lab Sample ID: 380-147405-I-3-A MS

Matrix: Water

Analysis Batch: 149781

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 149604

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Dimethylphthalate	<0.49		1.96	2.08		ug/L		106	70 - 130
Di-n-butyl phthalate	<0.98		3.92	4.26		ug/L		109	70 - 130
Di-n-octyl phthalate	<0.098		1.96	1.67		ug/L		85	70 - 130
Endosulfan I (Alpha)	<0.098		1.96	2.04		ug/L		104	70 - 130
Endosulfan II (Beta)	<0.098		1.96	2.07		ug/L		106	70 - 130
Endosulfan sulfate	<0.098		1.96	2.37		ug/L		121	70 - 130
Endrin	<0.0098		1.96	2.33		ug/L		119	70 - 130
Endrin aldehyde	<0.098		1.96	1.98		ug/L		101	60 - 130
EPTC	<0.098		1.96	2.14		ug/L		109	70 - 130
Fluoranthene	<0.098		1.96	2.13		ug/L		108	70 - 130
Fluorene	<0.049		1.96	2.05		ug/L		105	70 - 130
gamma-Chlordane	<0.049		1.96	2.26		ug/L		115	70 - 130
Heptachlor	<0.0098		1.96	2.40		ug/L		123	70 - 130
Heptachlor epoxide (isomer B)	<0.0098		1.96	2.33		ug/L		119	70 - 130
Hexachlorobenzene	<0.049		1.96	2.15		ug/L		110	70 - 130
Hexachlorocyclopentadiene	<0.049		1.96	2.10		ug/L		107	70 - 130
Indeno[1,2,3-cd]pyrene	<0.049		1.96	2.13		ug/L		109	70 - 130
Isophorone	<0.098		1.96	1.96		ug/L		100	70 - 130
Lindane	<0.0098		1.96	2.16		ug/L		110	70 - 130
Malathion	<0.098		1.96	2.25		ug/L		115	70 - 130
Methoxychlor	<0.049		1.96	2.22		ug/L		113	70 - 130
Metolachlor	<0.049		1.96	2.08		ug/L		106	70 - 130
Molinate	<0.098		1.96	2.16		ug/L		110	70 - 130
Naphthalene	<0.098		1.96	1.89		ug/L		97	70 - 130
Parathion	<0.098		1.96	2.33		ug/L		119	70 - 130
Pendimethalin (Penoxaline)	<0.098		1.96	2.28		ug/L		117	70 - 130
Phenanthrene	<0.039		1.96	1.91		ug/L		97	70 - 130
Propachlor	<0.049		1.96	2.20		ug/L		112	70 - 130
Pyrene	<0.049		1.96	2.19		ug/L		112	70 - 130
Simazine	<0.049		1.96	2.18		ug/L		111	70 - 130
Terbacil	<0.098		1.96	2.16		ug/L		110	70 - 130
Terbutylazine	<0.098		1.96	2.30		ug/L		117	70 - 130
Thiobencarb	<0.098		1.96	2.22		ug/L		113	70 - 130
trans-Nonachlor	<0.049		1.96	2.23		ug/L		114	70 - 130
Trifluralin	<0.098		1.96	2.20		ug/L		112	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Nitro-m-xylene	97		70 - 130
Perylene-d12	97		70 - 130
Triphenylphosphate	110		70 - 130

Lab Sample ID: 380-147405-I-1-A DU

Matrix: Water

Analysis Batch: 149781

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 149604

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
1-Methylnaphthalene	<0.098		<0.098		ug/L		NC	20
2,4'-DDD	<0.098		<0.098		ug/L		NC	20

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-147415-1
SDG: Weekly

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

Lab Sample ID: 380-147405-I-1-A DU

Matrix: Water

Analysis Batch: 149781

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 149604

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
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
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		<0.59		ug/L		NC	20
Bromacil	<0.098		<0.098		ug/L		NC	20
Butachlor	<0.049		<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		<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		<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	<0.0098		<0.0098		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	<0.0098		<0.0098		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

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-147415-1
SDG: Weekly

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

Lab Sample ID: 380-147405-I-1-A DU

Matrix: Water

Analysis Batch: 149781

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 149604

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Heptachlor	<0.0098		<0.0098		ug/L		NC	20
Heptachlor epoxide (isomer B)	<0.0098		<0.0098		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	<0.098		<0.098		ug/L		NC	20
Lindane	<0.0098		<0.0098		ug/L		NC	20
Malathion	<0.098		<0.098		ug/L		NC	20
Methoxychlor	<0.049		<0.049		ug/L		NC	20
Metolachlor	<0.049		<0.049		ug/L		NC	20
Molinate	<0.098		<0.098		ug/L		NC	20
Naphthalene	<0.098		<0.098		ug/L		NC	20
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		<0.098		ug/L		NC	20
Terbutylazine	<0.098		<0.098		ug/L		NC	20
Thiobencarb	<0.098		<0.098		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	%Recovery	DU Qualifier	Limits
2-Nitro-m-xylene	96		70 - 130
Perylene-d12	89		70 - 130
Triphenylphosphate	109		70 - 130

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 570-563059/1-A

Matrix: Water

Analysis Batch: 567853

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 563059

Tentatively Identified Compound	Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	04/25/25 16:28	05/07/25 12:20	1

Surrogate	%Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	78		33 - 139	04/25/25 16:28	05/07/25 12:20	1
2-Fluorobiphenyl (Surr)	81		33 - 126	04/25/25 16:28	05/07/25 12:20	1
2-Fluorophenol (Surr)	47		12 - 120	04/25/25 16:28	05/07/25 12:20	1
Nitrobenzene-d5 (Surr)	105		36 - 120	04/25/25 16:28	05/07/25 12:20	1
Phenol-d6 (Surr)	33		10 - 120	04/25/25 16:28	05/07/25 12:20	1
p-Terphenyl-d14 (Surr)	85		47 - 131	04/25/25 16:28	05/07/25 12:20	1

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-147415-1
SDG: Weekly

Method: 625.1 SIM - Semivolatile Organic Compounds GC/MS (SIM)

Lab Sample ID: MB 570-563059/1-A

Matrix: Water

Analysis Batch: 566339

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 563059

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.20		0.20	ug/L		04/25/25 16:28	05/03/25 11:57	1
2-Methylnaphthalene	<0.20		0.20	ug/L		04/25/25 16:28	05/03/25 11:57	1
Acenaphthene	<0.20		0.20	ug/L		04/25/25 16:28	05/03/25 11:57	1
Acenaphthylene	<0.20		0.20	ug/L		04/25/25 16:28	05/03/25 11:57	1
Anthracene	<0.20		0.20	ug/L		04/25/25 16:28	05/03/25 11:57	1
Benzo[a]anthracene	<0.20		0.20	ug/L		04/25/25 16:28	05/03/25 11:57	1
Benzo[a]pyrene	<0.20		0.20	ug/L		04/25/25 16:28	05/03/25 11:57	1
Benzo[b]fluoranthene	<0.20		0.20	ug/L		04/25/25 16:28	05/03/25 11:57	1
Benzo[g,h,i]perylene	<0.20		0.20	ug/L		04/25/25 16:28	05/03/25 11:57	1
Benzo[k]fluoranthene	<0.20		0.20	ug/L		04/25/25 16:28	05/03/25 11:57	1
Chrysene	<0.20		0.20	ug/L		04/25/25 16:28	05/03/25 11:57	1
Dibenz(a,h)anthracene	<0.20		0.20	ug/L		04/25/25 16:28	05/03/25 11:57	1
Fluoranthene	<0.20		0.20	ug/L		04/25/25 16:28	05/03/25 11:57	1
Fluorene	<0.20		0.20	ug/L		04/25/25 16:28	05/03/25 11:57	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20	ug/L		04/25/25 16:28	05/03/25 11:57	1
Naphthalene	<0.20		0.20	ug/L		04/25/25 16:28	05/03/25 11:57	1
Phenanthrene	<0.20		0.20	ug/L		04/25/25 16:28	05/03/25 11:57	1
Pyrene	<0.20		0.20	ug/L		04/25/25 16:28	05/03/25 11:57	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	119		28 - 127	04/25/25 16:28	05/03/25 11:57	1
2-Fluorobiphenyl (Surr)	90		31 - 120	04/25/25 16:28	05/03/25 11:57	1
2-Fluorophenol (Surr)	51		17 - 120	04/25/25 16:28	05/03/25 11:57	1
Nitrobenzene-d5 (Surr)	97		27 - 120	04/25/25 16:28	05/03/25 11:57	1
Phenol-d6 (Surr)	31		10 - 120	04/25/25 16:28	05/03/25 11:57	1
p-Terphenyl-d14 (Surr)	102		45 - 120	04/25/25 16:28	05/03/25 11:57	1

Lab Sample ID: LCS 570-563059/2-A

Matrix: Water

Analysis Batch: 566339

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 563059

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	20.0	16.4		ug/L		82	47 - 120
2-Methylnaphthalene	20.0	18.0		ug/L		90	43 - 120
Acenaphthene	20.0	21.3		ug/L		107	60 - 132
Acenaphthylene	20.0	20.4		ug/L		102	54 - 126
Anthracene	20.0	22.3		ug/L		111	43 - 120
Benzo[a]anthracene	20.0	21.2		ug/L		106	42 - 133
Benzo[a]pyrene	20.0	20.8		ug/L		104	32 - 148
Benzo[b]fluoranthene	20.0	21.0		ug/L		105	42 - 140
Benzo[g,h,i]perylene	20.0	20.7		ug/L		104	1 - 195
Benzo[k]fluoranthene	20.0	22.4		ug/L		112	25 - 146
Chrysene	20.0	20.9		ug/L		105	44 - 140
Dibenz(a,h)anthracene	20.0	21.4		ug/L		107	1 - 200
Fluoranthene	20.0	23.8		ug/L		119	43 - 121
Fluorene	20.0	21.1		ug/L		105	70 - 120
Indeno[1,2,3-cd]pyrene	20.0	21.7		ug/L		108	1 - 151
Naphthalene	20.0	16.9		ug/L		84	36 - 120

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-147415-1
SDG: Weekly

Method: 625.1 SIM - Semivolatile Organic Compounds GC/MS (SIM) (Continued)

Lab Sample ID: LCS 570-563059/2-A

Matrix: Water

Analysis Batch: 566339

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 563059

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phenanthrene	20.0	21.7		ug/L		108	65 - 120
Pyrene	20.0	22.8		ug/L		114	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	116		28 - 127
2-Fluorobiphenyl (Surr)	102		31 - 120
2-Fluorophenol (Surr)	63		17 - 120
Nitrobenzene-d5 (Surr)	85		27 - 120
Phenol-d6 (Surr)	39		10 - 120
p-Terphenyl-d14 (Surr)	104		45 - 120

Lab Sample ID: LCSD 570-563059/3-A

Matrix: Water

Analysis Batch: 566339

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 563059

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	20.0	15.5		ug/L		77	47 - 120	6	20
2-Methylnaphthalene	20.0	17.0		ug/L		85	43 - 120	6	20
Acenaphthene	20.0	20.2		ug/L		101	60 - 132	6	29
Acenaphthylene	20.0	19.0		ug/L		95	54 - 126	7	45
Anthracene	20.0	21.9		ug/L		109	43 - 120	2	40
Benzo[a]anthracene	20.0	20.9		ug/L		104	42 - 133	1	32
Benzo[a]pyrene	20.0	20.7		ug/L		104	32 - 148	0	43
Benzo[b]fluoranthene	20.0	21.1		ug/L		105	42 - 140	0	43
Benzo[g,h,i]perylene	20.0	20.9		ug/L		104	1 - 195	1	61
Benzo[k]fluoranthene	20.0	22.5		ug/L		112	25 - 146	0	38
Chrysene	20.0	20.7		ug/L		104	44 - 140	1	53
Dibenz(a,h)anthracene	20.0	21.9		ug/L		109	1 - 200	2	75
Fluoranthene	20.0	23.2		ug/L		116	43 - 121	3	40
Fluorene	20.0	20.1		ug/L		100	70 - 120	5	23
Indeno[1,2,3-cd]pyrene	20.0	21.5		ug/L		108	1 - 151	1	60
Naphthalene	20.0	15.5		ug/L		78	36 - 120	8	39
Phenanthrene	20.0	21.0		ug/L		105	65 - 120	3	24
Pyrene	20.0	22.6		ug/L		113	70 - 120	1	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	113		28 - 127
2-Fluorobiphenyl (Surr)	88		31 - 120
2-Fluorophenol (Surr)	61		17 - 120
Nitrobenzene-d5 (Surr)	80		27 - 120
Phenol-d6 (Surr)	39		10 - 120
p-Terphenyl-d14 (Surr)	105		45 - 120

QC Sample Results

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

Job ID: 380-147415-1
SDG: Weekly

Method: 625.1 SIM - Semivolatile Organic Compounds GC/MS (SIM) (Continued)

Lab Sample ID: 380-147415-3 MS

Matrix: Water

Analysis Batch: 566339

Client Sample ID: MOANALUA WELLS

Prep Type: Total/NA

Prep Batch: 563059

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.19		19.4	18.1		ug/L		93	36 - 120
2-Methylnaphthalene	<0.19		19.4	20.4		ug/L		105	32 - 124
Acenaphthene	<0.19		19.4	20.1		ug/L		103	47 - 145
Acenaphthylene	<0.19		19.4	18.2		ug/L		93	33 - 145
Anthracene	<0.19		19.4	21.3		ug/L		110	27 - 133
Benzo[a]anthracene	<0.19		19.4	19.0		ug/L		98	33 - 143
Benzo[a]pyrene	<0.19		19.4	17.3		ug/L		89	17 - 163
Benzo[b]fluoranthene	<0.19		19.4	18.4		ug/L		95	24 - 159
Benzo[g,h,i]perylene	<0.19		19.4	18.9		ug/L		97	1 - 219
Benzo[k]fluoranthene	<0.19		19.4	19.4		ug/L		100	11 - 162
Chrysene	<0.19		19.4	19.8		ug/L		102	17 - 168
Dibenz(a,h)anthracene	<0.19		19.4	19.7		ug/L		101	1 - 227
Fluoranthene	<0.19		19.4	22.6		ug/L		116	26 - 137
Fluorene	<0.19		19.4	19.4		ug/L		100	59 - 121
Indeno[1,2,3-cd]pyrene	<0.19		19.4	19.5		ug/L		100	1 - 171
Naphthalene	<0.19		19.4	19.1		ug/L		98	21 - 133
Phenanthrene	<0.19		19.4	21.2		ug/L		109	54 - 120
Pyrene	<0.19		19.4	21.0		ug/L		108	52 - 120

Surrogate	MS %Recovery	MS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	115		28 - 127
2-Fluorobiphenyl (Surr)	93		31 - 120
2-Fluorophenol (Surr)	61		17 - 120
Nitrobenzene-d5 (Surr)	91		27 - 120
Phenol-d6 (Surr)	37		10 - 120
p-Terphenyl-d14 (Surr)	97		45 - 120

Lab Sample ID: 380-147415-3 MSD

Matrix: Water

Analysis Batch: 566339

Client Sample ID: MOANALUA WELLS

Prep Type: Total/NA

Prep Batch: 563059

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	<0.19		19.2	18.4		ug/L		96	36 - 120	2	30
2-Methylnaphthalene	<0.19		19.2	20.5		ug/L		106	32 - 124	0	30
Acenaphthene	<0.19		19.2	19.7		ug/L		102	47 - 145	2	48
Acenaphthylene	<0.19		19.2	17.7		ug/L		92	33 - 145	3	74
Anthracene	<0.19		19.2	20.5		ug/L		107	27 - 133	4	66
Benzo[a]anthracene	<0.19		19.2	18.5		ug/L		96	33 - 143	2	53
Benzo[a]pyrene	<0.19		19.2	16.9		ug/L		88	17 - 163	2	72
Benzo[b]fluoranthene	<0.19		19.2	18.2		ug/L		95	24 - 159	1	71
Benzo[g,h,i]perylene	<0.19		19.2	19.9		ug/L		104	1 - 219	5	97
Benzo[k]fluoranthene	<0.19		19.2	19.2		ug/L		100	11 - 162	1	63
Chrysene	<0.19		19.2	19.3		ug/L		101	17 - 168	2	87
Dibenz(a,h)anthracene	<0.19		19.2	21.0		ug/L		109	1 - 227	7	126
Fluoranthene	<0.19		19.2	21.7		ug/L		113	26 - 137	4	66
Fluorene	<0.19		19.2	19.0		ug/L		99	59 - 121	2	38
Indeno[1,2,3-cd]pyrene	<0.19		19.2	20.3		ug/L		105	1 - 171	4	99
Naphthalene	<0.19		19.2	19.1		ug/L		100	21 - 133	0	65

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-147415-1
SDG: Weekly

Method: 625.1 SIM - Semivolatile Organic Compounds GC/MS (SIM) (Continued)

Lab Sample ID: 380-147415-3 MSD

Matrix: Water

Analysis Batch: 566339

Client Sample ID: MOANALUA WELLS

Prep Type: Total/NA

Prep Batch: 563059

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenanthrene	<0.19		19.2	20.0		ug/L		104	54 - 120	6	39
Pyrene	<0.19		19.2	20.5		ug/L		106	52 - 120	2	49

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	109		28 - 127
2-Fluorobiphenyl (Surr)	91		31 - 120
2-Fluorophenol (Surr)	61		17 - 120
Nitrobenzene-d5 (Surr)	94		27 - 120
Phenol-d6 (Surr)	38		10 - 120
p-Terphenyl-d14 (Surr)	97		45 - 120

Method: 8015B GRO LL - Gasoline Range Organics - (GC)

Lab Sample ID: MB 570-563681/6

Matrix: Water

Analysis Batch: 563681

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	<10		10	ug/L			04/28/25 12:40	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		38 - 134		04/28/25 12:40	1

Lab Sample ID: LCS 570-563681/4

Matrix: Water

Analysis Batch: 563681

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (C4-C13)	400	371		ug/L		93	78 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	89		38 - 134

Lab Sample ID: LCSD 570-563681/5

Matrix: Water

Analysis Batch: 563681

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (C4-C13)	400	379		ug/L		95	78 - 120	2	10

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	87		38 - 134

QC Sample Results

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

Job ID: 380-147415-1
SDG: Weekly

Method: 8015B GRO LL - Gasoline Range Organics - (GC) (Continued)

Lab Sample ID: MRL 570-563681/3

Matrix: Water

Analysis Batch: 563681

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

			Spike	MRL	MRL				%Rec		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	%Rec	Limits	
Gasoline Range Organics (C4-C13)			10.0	9.36	J	ug/L		94		50 - 150	
Surrogate	MRL	MRL									
	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	85		38 - 134								

Lab Sample ID: 380-147415-3 MS

Matrix: Water

Analysis Batch: 563681

Client Sample ID: MOANALUA WELLS

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (C4-C13)	<10		400	387		ug/L		97	68 - 122
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	92		38 - 134						

Lab Sample ID: 380-147415-3 MSD

Matrix: Water

Analysis Batch: 563681

Client Sample ID: MOANALUA WELLS

Prep Type: Total/NA

<u>Analyte</u>	<u>Sample Result</u>	<u>Sample Qualifier</u>	<u>Spike Added</u>	<u>MSD Result</u>	<u>MSD Qualifier</u>	<u>Unit</u>	<u>D</u>	<u>%Rec</u>	<u>%Rec Limits</u>	<u>RPD</u>	<u>RPD Limit</u>
Gasoline Range Organics (C4-C13)	<10		400	375		ug/L		94	68 - 122	3	18
<u>Surrogate</u>	<u>%Recovery</u>	<u>MSD Qualifier</u>	<u>Limits</u>								
4-Bromofluorobenzene (Surr)	90		38 - 134								

Method: 8015B - Diesel Range Organics (DRO) (GC) Low Level

Lab Sample ID: MB 570-563894/1-B

Matrix: Water

Analysis Batch: 567004

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 563894

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Diesel Range Organics (C10-C24)	<25		25	ug/L		04/28/25 14:56	05/05/25 17:53	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		04/28/25 14:56	05/05/25 17:53	1
C8-C18	<25		25	ug/L		04/28/25 14:56	05/05/25 17:53	1
Surrogate	MB	MB	Limits			Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier						
n-Octacosane (Surr)	134	S1+	60 - 130			04/28/25 14:56	05/05/25 17:53	1

Lab Sample ID: LCS 570-563894/2-B

Matrix: Water

Analysis Batch: 567004

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 563894

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
C10-C28	1600	1610		ug/L		101	56 - 127

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-147415-1
SDG: Weekly

Method: 8015B - Diesel Range Organics (DRO) (GC) Low Level (Continued)

Lab Sample ID: LCS 570-563894/2-B

Matrix: Water

Analysis Batch: 567004

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 563894

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
n-Octacosane (Surr)	120		60 - 130

Lab Sample ID: LCSD 570-563894/3-B

Matrix: Water

Analysis Batch: 567004

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 563894

			Spike	LCSD	LCSD				%Rec	RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD
C10-C28			1600	1640		ug/L		102	56 - 127	2

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
n-Octacosane (Surr)	124		60 - 130

Lab Sample ID: MRL 570-563894/4-B

Matrix: Water

Analysis Batch: 567004

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 563894

			Spike	MRL	MRL					
Analyte			Added	Result	Qualifier	Unit	D	%Rec	%Rec	
C10-C28			0.0200	0.0318	^3+	mg/L		159	50 - 150	

	MRL	MRL	
Surrogate	%Recovery	Qualifier	Limits
n-Octacosane (Surr)	126		60 - 130

Lab Sample ID: 380-147415-3 MS

Matrix: Water

Analysis Batch: 567004

Client Sample ID: MOANALUA WELLS

Prep Type: Total/NA

Prep Batch: 563894

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
C10-C28	<26	^3+	1610	1670		ua/L		104	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
n-Octacosane (Surr)	124		60 - 130

Lab Sample ID: 380-147415-3 MSD

Matrix: Water

Analysis Batch: 567004

Client Sample ID: MOANALUA WELLS

Prep Type: Total/NA

Prep Batch: 563894

	Sample	Sample	Spike	MSD	MSD				%Rec	RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
C10-C28	<26	^3+	1610	1470		ug/L		91	70 - 130	13	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
n-Octacosane (Surr)	113		60 - 130

QC Association Summary

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

Job ID: 380-147415-1
SDG: Weekly

GC/MS Semi VOA

Prep Batch: 149604

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-147415-1	Ka'amilo Wells	Total/NA	Drinking Water	525.2	
380-147415-3	MOANALUA WELLS	Total/NA	Water	525.2	
MB 380-149604/21-A	Method Blank	Total/NA	Water	525.2	
LCS 380-149604/23-A	Lab Control Sample	Total/NA	Water	525.2	
LCSD 380-149604/24-A	Lab Control Sample Dup	Total/NA	Water	525.2	
MRL 380-149604/22-A	Lab Control Sample	Total/NA	Water	525.2	
380-147405-I-3-A MS	Matrix Spike	Total/NA	Water	525.2	
380-147405-I-1-A DU	Duplicate	Total/NA	Water	525.2	

Analysis Batch: 149781

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-147415-1	Ka'amilo Wells	Total/NA	Drinking Water	525.2	149604
380-147415-3	MOANALUA WELLS	Total/NA	Water	525.2	149604
MB 380-149604/21-A	Method Blank	Total/NA	Water	525.2	149604
LCS 380-149604/23-A	Lab Control Sample	Total/NA	Water	525.2	149604
LCSD 380-149604/24-A	Lab Control Sample Dup	Total/NA	Water	525.2	149604
MRL 380-149604/22-A	Lab Control Sample	Total/NA	Water	525.2	149604
380-147405-I-3-A MS	Matrix Spike	Total/NA	Water	525.2	149604
380-147405-I-1-A DU	Duplicate	Total/NA	Water	525.2	149604

Prep Batch: 563059

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-147415-1	Ka'amilo Wells	Total/NA	Drinking Water	625.1	
380-147415-3	MOANALUA WELLS	Total/NA	Water	625.1	
MB 570-563059/1-A	Method Blank	Total/NA	Water	625.1	
LCS 570-563059/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 570-563059/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	
380-147415-3 MS	MOANALUA WELLS	Total/NA	Water	625.1	
380-147415-3 MSD	MOANALUA WELLS	Total/NA	Water	625.1	

Analysis Batch: 566339

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-147415-3	MOANALUA WELLS	Total/NA	Water	625.1 SIM	563059
MB 570-563059/1-A	Method Blank	Total/NA	Water	625.1 SIM	563059
LCS 570-563059/2-A	Lab Control Sample	Total/NA	Water	625.1 SIM	563059
LCSD 570-563059/3-A	Lab Control Sample Dup	Total/NA	Water	625.1 SIM	563059
380-147415-3 MS	MOANALUA WELLS	Total/NA	Water	625.1 SIM	563059
380-147415-3 MSD	MOANALUA WELLS	Total/NA	Water	625.1 SIM	563059

Analysis Batch: 567829

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-147415-1	Ka'amilo Wells	Total/NA	Drinking Water	625.1 SIM	563059

Analysis Batch: 567853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-147415-1	Ka'amilo Wells	Total/NA	Drinking Water	625.1	563059
380-147415-3	MOANALUA WELLS	Total/NA	Water	625.1	563059
MB 570-563059/1-A	Method Blank	Total/NA	Water	625.1	563059

QC Association Summary

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

Job ID: 380-147415-1
SDG: Weekly

GC VOA

Analysis Batch: 563681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-147415-1	Ka'amilo Wells	Total/NA	Drinking Water	8015B GRO LL	
380-147415-2	TB: Ka'amilo Wells	Total/NA	Water	8015B GRO LL	
380-147415-3	MOANALUA WELLS	Total/NA	Water	8015B GRO LL	
380-147415-4	TB: MOANALUA WELLS	Total/NA	Water	8015B GRO LL	
MB 570-563681/6	Method Blank	Total/NA	Water	8015B GRO LL	
LCS 570-563681/4	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-563681/5	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	
MRL 570-563681/3	Lab Control Sample	Total/NA	Water	8015B GRO LL	
380-147415-3 MS	MOANALUA WELLS	Total/NA	Water	8015B GRO LL	
380-147415-3 MSD	MOANALUA WELLS	Total/NA	Water	8015B GRO LL	

GC Semi VOA

Prep Batch: 563894

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-147415-1	Ka'amilo Wells	Total/NA	Drinking Water	3510C	
380-147415-3	MOANALUA WELLS	Total/NA	Water	3510C	
MB 570-563894/1-B	Method Blank	Total/NA	Water	3510C	
LCS 570-563894/2-B	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-563894/3-B	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-563894/4-B	Lab Control Sample	Total/NA	Water	3510C	
380-147415-3 MS	MOANALUA WELLS	Total/NA	Water	3510C	
380-147415-3 MSD	MOANALUA WELLS	Total/NA	Water	3510C	

Analysis Batch: 567004

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-147415-1	Ka'amilo Wells	Total/NA	Drinking Water	8015B	563894
380-147415-3	MOANALUA WELLS	Total/NA	Water	8015B	563894
MB 570-563894/1-B	Method Blank	Total/NA	Water	8015B	563894
LCS 570-563894/2-B	Lab Control Sample	Total/NA	Water	8015B	563894
LCSD 570-563894/3-B	Lab Control Sample Dup	Total/NA	Water	8015B	563894
MRL 570-563894/4-B	Lab Control Sample	Total/NA	Water	8015B	563894
380-147415-3 MS	MOANALUA WELLS	Total/NA	Water	8015B	563894
380-147415-3 MSD	MOANALUA WELLS	Total/NA	Water	8015B	563894

Lab Chronicle

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

Job ID: 380-147415-1
SDG: Weekly

Client Sample ID: Ka'amilo Wells

Lab Sample ID: 380-147415-1

Date Collected: 04/21/25 11:42

Matrix: Drinking Water

Date Received: 04/24/25 09:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			149604	KRD3	EA POM	04/28/25 09:22
Total/NA	Analysis	525.2		1	149781	Q8LA	EA POM	04/29/25 15:02
Total/NA	Prep	625.1			563059	UD4J	EET CAL 4	04/25/25 16:28
Total/NA	Analysis	625.1		1	567853	J7WE	EET CAL 4	05/07/25 13:53
Total/NA	Prep	625.1			563059	UD4J	EET CAL 4	04/25/25 16:28
Total/NA	Analysis	625.1 SIM		1	567829	PQS1	EET CAL 4	05/07/25 13:02
Total/NA	Analysis	8015B GRO LL		1	563681	A9VE	EET CAL 4	04/28/25 21:56
Total/NA	Prep	3510C			563894	TVD6	EET CAL 4	04/28/25 14:57
Total/NA	Analysis	8015B		1	567004	NR	EET CAL 4	05/05/25 21:24

Client Sample ID: TB: Ka'amilo Wells

Lab Sample ID: 380-147415-2

Date Collected: 04/21/25 11:42

Matrix: Water

Date Received: 04/24/25 09:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	563681	A9VE	EET CAL 4	04/28/25 18:23

Client Sample ID: MOANALUA WELLS

Lab Sample ID: 380-147415-3

Date Collected: 04/21/25 09:26

Matrix: Water

Date Received: 04/24/25 09:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			149604	KRD3	EA POM	04/28/25 09:22
Total/NA	Analysis	525.2		1	149781	Q8LA	EA POM	04/29/25 15:22
Total/NA	Prep	625.1			563059	UD4J	EET CAL 4	04/25/25 16:28
Total/NA	Analysis	625.1		1	567853	J7WE	EET CAL 4	05/07/25 14:16
Total/NA	Prep	625.1			563059	UD4J	EET CAL 4	04/25/25 16:28
Total/NA	Analysis	625.1 SIM		1	566339	PQS1	EET CAL 4	05/03/25 13:46
Total/NA	Analysis	8015B GRO LL		1	563681	A9VE	EET CAL 4	04/28/25 15:13
Total/NA	Prep	3510C			563894	TVD6	EET CAL 4	04/28/25 14:57
Total/NA	Analysis	8015B		1	567004	NR	EET CAL 4	05/05/25 19:39

Client Sample ID: TB: MOANALUA WELLS

Lab Sample ID: 380-147415-4

Date Collected: 04/21/25 09:26

Matrix: Water

Date Received: 04/24/25 09:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	563681	A9VE	EET CAL 4	04/28/25 18:48

Laboratory References:

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

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Eurofins Eaton Analytical Pomona

Accreditation/Certification Summary

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

Job ID: 380-147415-1
SDG: Weekly

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	01-31-26

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

Analysis Method	Prep Method	Matrix	Analyte
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	Acetochlor
525.2	525.2	Drinking Water	alpha-BHC
525.2	525.2	Drinking Water	alpha-Chlordane
525.2	525.2	Drinking Water	beta-BHC
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	delta-BHC
525.2	525.2	Drinking Water	Diclorvos (DDVP)
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	gamma-Chlordane
525.2	525.2	Drinking Water	Isophorone
525.2	525.2	Drinking Water	Malathion
525.2	525.2	Drinking Water	Parathion
525.2	525.2	Drinking Water	Pendimethalin (Penoxaline)
525.2	525.2	Drinking Water	Terbacil
525.2	525.2	Drinking Water	Terbutylazine
525.2	525.2	Drinking Water	Total Permethrin (mixed isomers)
525.2	525.2	Drinking Water	trans-Nonachlor
525.2	525.2	Water	1 Methylnaphthalene
525.2	525.2	Water	2,4'-DDD
525.2	525.2	Water	2,4'-DDE
525.2	525.2	Water	2,4'-DDT
525.2	525.2	Water	2,4-Dinitrotoluene
525.2	525.2	Water	2,6-Dinitrotoluene
525.2	525.2	Water	2-Methylnaphthalene
525.2	525.2	Water	4,4'-DDD
525.2	525.2	Water	4,4'-DDE
525.2	525.2	Water	4,4'-DDT
525.2	525.2	Water	Acetochlor

Accreditation/Certification Summary

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

Job ID: 380-147415-1
SDG: Weekly

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	Water	alpha-BHC
525.2	525.2	Water	alpha-Chlordane
525.2	525.2	Water	beta-BHC
525.2	525.2	Water	Chlorobenzilate
525.2	525.2	Water	Chloroneb
525.2	525.2	Water	Chlorothalonil (Draconil, Bravo)
525.2	525.2	Water	Chlorpyrifos
525.2	525.2	Water	delta-BHC
525.2	525.2	Water	Diclorvos (DDVP)
525.2	525.2	Water	Endosulfan I (Alpha)
525.2	525.2	Water	Endosulfan II (Beta)
525.2	525.2	Water	Endosulfan sulfate
525.2	525.2	Water	Endrin aldehyde
525.2	525.2	Water	EPTC
525.2	525.2	Water	gamma-Chlordane
525.2	525.2	Water	Isophorone
525.2	525.2	Water	Malathion
525.2	525.2	Water	Parathion
525.2	525.2	Water	Pendimethalin (Penoxaline)
525.2	525.2	Water	Terbacil
525.2	525.2	Water	Terbutylazine
525.2	525.2	Water	Total Permethrin (mixed isomers)
525.2	525.2	Water	trans-Nonachlor

Laboratory: Eurofins Calscience

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	7296.01	11-30-26
Arizona	State	AZ0830	11-16-25
Arkansas DEQ	State	88-01672	07-02-25
California	Los Angeles County Sanitation Districts	9257304	07-31-26
California	SCAQMD LAP	17LA0919	11-30-25
California	State	3082	07-31-25
Kansas	NELAP	E-10420	07-31-25
Nevada	State	CA00111	07-31-25
Oregon	NELAP	4175	02-02-26
USDA	US Federal Programs	525-23-159-97150	06-08-26
Utah	NELAP	CA00111	02-28-26
Washington	State	C916	10-11-25

Method Summary

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

Job ID: 380-147415-1
SDG: Weekly

Method	Method Description	Protocol	Laboratory
525.2	Semivolatile Organic Compounds (GC/MS)	EPA	EA POM
625.1	Semivolatile Organic Compounds (GC/MS)	EPA	EET CAL 4
625.1 SIM	Semivolatile Organic Compounds GC/MS (SIM)	EPA	EET CAL 4
8015B GRO LL	Gasoline Range Organics - (GC)	SW846	EET CAL 4
8015B	Diesel Range Organics (DRO) (GC) Low Level	SW846	EET CAL 4
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET CAL 4
5030C	Purge and Trap	SW846	EET CAL 4
525.2	Extraction of Semivolatile Compounds	EPA	EA POM
625.1	Liquid-Liquid Extraction	40CFR136A	EET CAL 4

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Sample Summary

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

Job ID: 380-147415-1
SDG: Weekly

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	PWSID Number
380-147415-1	Ka'amilo Wells	Drinking Water	04/21/25 11:42	04/24/25 09:34	HI0000331
380-147415-2	TB: Ka'amilo Wells	Water	04/21/25 11:42	04/24/25 09:34	
380-147415-3	MOANALUA WELLS	Water	04/21/25 09:26	04/24/25 09:34	HI0000331
380-147415-4	TB: MOANALUA WELLS	Water	04/21/25 09:26	04/24/25 09:34	

Chain of Custody Record

Client Information		Lab PM: Arada, Rachelle		Carrier Tracking No(s):		COC No: 380-28005-2757 1	
Client Contact: Kirk Iwamoto		Phone: +1 808 748 5840		E-Mail: Rachelle.Arada@et.eurofins.com		Page: Page 1 of 1	
Company: City & County of Honolulu		PWSID:		Analysis Requested		Job #:	
Address: 630 South Beretania Street Chemistry Lab		Due Date Requested:		533 - All Analytes		Preservation Codes:	
City: Honolulu		TAT Requested (days):		537 1_DW_PREC - 637.1 Full List		R - NaHCO ₃	
State Zip: HI, 96843		Compliance Project: Δ Yes Δ No		537 2_PREC - (MOD) 637.1 Plus TICs		RA - NaHCO ₃	
Phone: 808-748-5840 (Tel)		PO #: C20525101 exp 05312023		537 3_PREC - (MOD) 637.1 Plus TICs		Q - Na ₂ SO ₃	
Email: kiwamoto@hbws.org		WO #: 38001111		537 4_PREC - (MOD) 637.1 Plus TICs		QA - Na ₂ SO ₃ /HCl	
Project Name: RED-HILL/HBWS Sites Event Desc: RUSH Weekly Red Hill		Sample Date		537 5_PREC - (MOD) 637.1 Plus TICs		Y - Trizma	
Site: Hawaii		Sample Time		537 6_PREC - (MOD) 637.1 Plus TICs		I - NH ₄ Acetate	
Sample Identification		Sample Type (C=Comp, G=Grab)		Field Filled Sample (Yes or No)		Other:	
Ka'amilo Wells		G		X		Special Instructions/Note:	
Ka'amilo Wells (Matrix Spike)		G		X		pump running #2	
Ka'amilo Wells (Matrix Spike Duplicate)		G		X		pump running: #3	
TB: Ka'amilo Wells		G		X			
Moanalua Wells		G		X			
Moanalua Wells (Matrix Spike)		G		X			
Moanalua Wells (Matrix Spike Duplicate)		G		X			
TB: Moanalua Wells		G		X			
Possible Hazard Identification		Sample Date		Sample Time		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological		21-Apr-2025		1142		☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months	
Deliverable Requested I, II, III, IV, Other (specify)		21-Apr-2025		1142		Special Instructions/QC Requirements	
Empty Kit Relinquished by		21-Apr-2025		1142		FED 5410 8807 3047 5066	
Relinquished by		21-Apr-2025		1142		Method of Shipment	
Relinquished by		21-Apr-2025		1142		Date/Time: 04/24/25 09:34	
Relinquished by		21-Apr-2025		1142		Date/Time: 04/24/25 09:34	
Relinquished by		21-Apr-2025		1142		Date/Time: 04/24/25 09:34	
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:		Custody Seal No.:		Custody Seal No.:	
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:		Custody Seal No.:		Custody Seal No.:	

Eurofins Eaton Analytical Pomona

941 Corporate Center Drive

Pomona, CA 91768-2642

Phone: 626-386-1100

Chain of Custody Record



Enviro

Loc: 380

147415

Client Information (Sub Contract Lab)		Sampler: N/A		Lab PM: Lopez, Maria		Carrier Tracking No(s): N/A		COC No: 380-209140.1	
Client Contact: Shipping/Receiving		Phone: N/A		E-Mail: Maria.Lopez@et.eurofinsus.com		State of Origin: Hawaii		Page: Page 1 of 1	
Company: Eurofins Environment Testing Southwest,				Accreditations Required (See note): State - Hawaii				Job #: 380-147415-1	
Address: 2841 Dow Avenue, Suite 100,		Due Date Requested: 5/7/2025		Analysis Requested				Preservation Codes:	
City: Tustin		TAT Requested (days): N/A							
State, Zip: CA, 92780		PO #: N/A		Field Filtered Sample (Yes or No) N/A		Perform MS/MSD (Yes or No) N/A		626.1. SIM/MSD Prep (MOD) Extended PAH List N/A	
Phone: 714-895-5494(Tel)		WO #: N/A							
Email: N/A		Project #: 38001111		626.1.625 Prep (MOD) Tentatively Identified Compounds (Hold) N/A		80188_GRO_LL_CS3516C_LL_HNL Ranges: C10-C24/C24-C36/C8-C18 N/A		80188_GRO_LL_U5030C (MOD) GRO N/A	
Project Name: RED-HILL		SSOWN: N/A							
Site: Honolulu BWS Sites									
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=on-site, ST=Soil, AA=Air)	Total Number of containers		Other:	
Ka'amilo Wells (380-147415-1)		4/21/25	11:42 Hawaiian	G	Water		7	MRLs are needed. Confirm any hits >RL.	
TB: Ka'amilo Wells (380-147415-2)		4/21/25	11:42 Hawaiian	G	Water		2	MRLs are needed.	
MOANALUA WELLS (331-223-TP202) (380-147415-3)		4/21/25	09:26 Hawaiian	G	Water		7	MRLs are needed. Confirm any hits >RL.	
MOANALUA WELLS (331-223-TP202) (380-147415-3MS)		4/21/25	09:26 Hawaiian	G	Water		4	MRLs are needed. Confirm any hits >RL.	
MOANALUA WELLS (331-223-TP202) (380-147415-3MSD)		4/21/25	09:26 Hawaiian	G	Water		3	MRLs are needed. Confirm any hits >RL.	
TB: MOANALUA WELLS (331-223-TP202) (380-147415-4)		4/21/25	09:26 Hawaiian	G	Water		2	MRLs are needed.	
Note: Since laboratory accreditations are subject to change, Eurofins Eaton Analytical, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Eaton Analytical, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Eaton Analytical, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Eaton Analytical, LLC.									
Possible Hazard Identification					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)				
Unconfirmed					☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months				
Deliverable Requested: I, II, III, IV, Other (specify)					Special Instructions/QC Requirements:				
Primary Deliverable Rank: 2									
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:			
Relinquished by: <i>[Signature]</i>		Date/Time: 4/25/25 12:10		Company: EBT		Received by: <i>[Signature]</i>		Date/Time: 4/25/25 12:10	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:	
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 1:1 / 1:6 SCU					

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-147415-1

SDG Number: Weekly

Login Number: 147415

List Source: Eurofins Eaton Analytical Pomona

List Number: 1

Creator: Segura, Ryan

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

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-147415-1

SDG Number: Weekly

Login Number: 147415

List Number: 2

Creator: Khana, Piyush

List Source: Eurofins Calscience

List Creation: 04/25/25 01:23 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	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 $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	