

ANALYTICAL REPORT

PREPARED FOR

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JOB DESCRIPTION

RED-HILL
Weekly
RUSH Weekly Red Hill

JOB NUMBER

380-153104-1

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



Authorized for release by
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Definitions/Glossary

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

Job ID: 380-153104-1
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
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Case Narrative

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

Job ID: 380-153104-1

Job ID: 380-153104-1

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Job Narrative 380-153104-1

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 5/30/2025 9:54 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 1.8°C and 2.0°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

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: 380-153104-1
SDG: Weekly

Client Sample ID: Ka'amilo Wells Pump 1
PWSID Number: HI0000331

Lab Sample ID: 380-153104-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Dieldrin	0.075		0.0099	ug/L	1		525.2	Total/NA
Heptachlor epoxide (isomer B)	0.014		0.0099	ug/L	1		525.2	Total/NA

Client Sample ID: TB: Ka'amilo Wells Pump 1
PWSID Number: HI0000331

Lab Sample ID: 380-153104-2

No Detections.

Client Sample ID: Ka'amilo Wells Pump 2
PWSID Number: HI0000331

Lab Sample ID: 380-153104-3

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Dieldrin	0.057		0.0097	ug/L	1		525.2	Total/NA
Heptachlor epoxide (isomer B)	0.012		0.0097	ug/L	1		525.2	Total/NA

Client Sample ID: TB: Ka'amilo Wells Pump 2
PWSID Number: HI0000331

Lab Sample ID: 380-153104-4

No Detections.

This Detection Summary does not include radiochemical test results.

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Client Sample Results

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

Job ID: 380-153104-1
SDG: Weekly

Client Sample ID: Ka'amilo Wells Pump 1

Lab Sample ID: 380-153104-1

Date Collected: 05/28/25 10:38

Matrix: Drinking Water

Date Received: 05/30/25 09:54

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.099		0.099	ug/L		06/04/25 08:14	06/05/25 18:01	1
2,4'-DDD	<0.099		0.099	ug/L		06/04/25 08:14	06/05/25 18:01	1
2,4'-DDE	<0.099		0.099	ug/L		06/04/25 08:14	06/05/25 18:01	1
2,4'-DDT	<0.099		0.099	ug/L		06/04/25 08:14	06/05/25 18:01	1
2,4-Dinitrotoluene	<0.099		0.099	ug/L		06/04/25 08:14	06/05/25 18:01	1
2,6-Dinitrotoluene	<0.099		0.099	ug/L		06/04/25 08:14	06/05/25 18:01	1
2-Methylnaphthalene	<0.099		0.099	ug/L		06/04/25 08:14	06/05/25 18:01	1
4,4'-DDD	<0.099		0.099	ug/L		06/04/25 08:14	06/05/25 18:01	1
4,4'-DDE	<0.099		0.099	ug/L		06/04/25 08:14	06/05/25 18:01	1
4,4'-DDT	<0.099		0.099	ug/L		06/04/25 08:14	06/05/25 18:01	1
Acenaphthene	<0.099		0.099	ug/L		06/04/25 08:14	06/05/25 18:01	1
Acenaphthylene	<0.099		0.099	ug/L		06/04/25 08:14	06/05/25 18:01	1
Acetochlor	<0.099		0.099	ug/L		06/04/25 08:14	06/05/25 18:01	1
Alachlor	<0.049		0.049	ug/L		06/04/25 08:14	06/05/25 18:01	1
alpha-BHC	<0.099		0.099	ug/L		06/04/25 08:14	06/05/25 18:01	1
alpha-Chlordane	<0.049		0.049	ug/L		06/04/25 08:14	06/05/25 18:01	1
Anthracene	<0.020		0.020	ug/L		06/04/25 08:14	06/05/25 18:01	1
Atrazine	<0.049		0.049	ug/L		06/04/25 08:14	06/05/25 18:01	1
Benz(a)anthracene	<0.049		0.049	ug/L		06/04/25 08:14	06/05/25 18:01	1
Benzo[a]pyrene	<0.020		0.020	ug/L		06/04/25 08:14	06/05/25 18:01	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		06/04/25 08:14	06/05/25 18:01	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		06/04/25 08:14	06/05/25 18:01	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		06/04/25 08:14	06/05/25 18:01	1
beta-BHC	<0.099		0.099	ug/L		06/04/25 08:14	06/05/25 18:01	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		06/04/25 08:14	06/05/25 18:01	1
Bromacil	<0.099		0.099	ug/L		06/04/25 08:14	06/05/25 18:01	1
Butachlor	<0.049		0.049	ug/L		06/04/25 08:14	06/05/25 18:01	1
Butylbenzylphthalate	<0.49		0.49	ug/L		06/04/25 08:14	06/05/25 18:01	1
Chlorobenzilate	<0.099		0.099	ug/L		06/04/25 08:14	06/05/25 18:01	1
Chloroneb	<0.099		0.099	ug/L		06/04/25 08:14	06/05/25 18:01	1
Chlorothalonil (Draconil, Bravo)	<0.099		0.099	ug/L		06/04/25 08:14	06/05/25 18:01	1
Chlorpyrifos	<0.049		0.049	ug/L		06/04/25 08:14	06/05/25 18:01	1
Chrysene	<0.020		0.020	ug/L		06/04/25 08:14	06/05/25 18:01	1
delta-BHC	<0.099		0.099	ug/L		06/04/25 08:14	06/05/25 18:01	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		06/04/25 08:14	06/05/25 18:01	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		06/04/25 08:14	06/05/25 18:01	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		06/04/25 08:14	06/05/25 18:01	1
Dieldrin	0.075		0.0099	ug/L		06/04/25 08:14	06/05/25 18:01	1
Diethylphthalate	<0.49		0.49	ug/L		06/04/25 08:14	06/05/25 18:01	1
Dimethylphthalate	<0.49		0.49	ug/L		06/04/25 08:14	06/05/25 18:01	1
Di-n-butyl phthalate	<0.99		0.99	ug/L		06/04/25 08:14	06/05/25 18:01	1
Di-n-octyl phthalate	<0.099		0.099	ug/L		06/04/25 08:14	06/05/25 18:01	1
Endosulfan I (Alpha)	<0.099		0.099	ug/L		06/04/25 08:14	06/05/25 18:01	1
Endosulfan II (Beta)	<0.099		0.099	ug/L		06/04/25 08:14	06/05/25 18:01	1
Endosulfan sulfate	<0.099		0.099	ug/L		06/04/25 08:14	06/05/25 18:01	1
Endrin	<0.0099		0.0099	ug/L		06/04/25 08:14	06/05/25 18:01	1
Endrin aldehyde	<0.099		0.099	ug/L		06/04/25 08:14	06/05/25 18:01	1
EPTC	<0.099		0.099	ug/L		06/04/25 08:14	06/05/25 18:01	1
Fluoranthene	<0.099		0.099	ug/L		06/04/25 08:14	06/05/25 18:01	1

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Client Sample Results

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

Job ID: 380-153104-1
SDG: Weekly

Client Sample ID: Ka'amilo Wells Pump 1

Lab Sample ID: 380-153104-1

Date Collected: 05/28/25 10:38

Matrix: Drinking Water

Date Received: 05/30/25 09:54

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		06/04/25 08:14	06/05/25 18:01	1
gamma-Chlordane	<0.049		0.049	ug/L		06/04/25 08:14	06/05/25 18:01	1
Heptachlor	<0.0099		0.0099	ug/L		06/04/25 08:14	06/05/25 18:01	1
Heptachlor epoxide (isomer B)	0.014		0.0099	ug/L		06/04/25 08:14	06/05/25 18:01	1
Hexachlorobenzene	<0.049		0.049	ug/L		06/04/25 08:14	06/05/25 18:01	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		06/04/25 08:14	06/05/25 18:01	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		06/04/25 08:14	06/05/25 18:01	1
Isophorone	<0.099		0.099	ug/L		06/04/25 08:14	06/05/25 18:01	1
Lindane	<0.0099		0.0099	ug/L		06/04/25 08:14	06/05/25 18:01	1
Malathion	<0.099		0.099	ug/L		06/04/25 08:14	06/05/25 18:01	1
Methoxychlor	<0.049		0.049	ug/L		06/04/25 08:14	06/05/25 18:01	1
Metolachlor	<0.049		0.049	ug/L		06/04/25 08:14	06/05/25 18:01	1
Molinate	<0.099		0.099	ug/L		06/04/25 08:14	06/05/25 18:01	1
Naphthalene	<0.099		0.099	ug/L		06/04/25 08:14	06/05/25 18:01	1
Parathion	<0.099		0.099	ug/L		06/04/25 08:14	06/05/25 18:01	1
Pendimethalin (Penoxaline)	<0.099		0.099	ug/L		06/04/25 08:14	06/05/25 18:01	1
Phenanthrene	<0.040		0.040	ug/L		06/04/25 08:14	06/05/25 18:01	1
Propachlor	<0.049		0.049	ug/L		06/04/25 08:14	06/05/25 18:01	1
Pyrene	<0.049		0.049	ug/L		06/04/25 08:14	06/05/25 18:01	1
Simazine	<0.049		0.049	ug/L		06/04/25 08:14	06/05/25 18:01	1
Terbacil	<0.099		0.099	ug/L		06/04/25 08:14	06/05/25 18:01	1
Terbutylazine	<0.099		0.099	ug/L		06/04/25 08:14	06/05/25 18:01	1
Thiobencarb	<0.099		0.099	ug/L		06/04/25 08:14	06/05/25 18:01	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		06/04/25 08:14	06/05/25 18:01	1
trans-Nonachlor	<0.049		0.049	ug/L		06/04/25 08:14	06/05/25 18:01	1
Trifluralin	<0.099		0.099	ug/L		06/04/25 08:14	06/05/25 18:01	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	06/04/25 08:14	06/05/25 18:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	92		70 - 130	06/04/25 08:14	06/05/25 18:01	1
Perylene-d12	97		70 - 130	06/04/25 08:14	06/05/25 18:01	1
Triphenylphosphate	109		70 - 130	06/04/25 08:14	06/05/25 18:01	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		06/02/25 15:19	06/11/25 18:19	1
2-Methylnaphthalene	<0.19		0.19	ug/L		06/02/25 15:19	06/11/25 18:19	1
Acenaphthene	<0.19		0.19	ug/L		06/02/25 15:19	06/11/25 18:19	1
Acenaphthylene	<0.19		0.19	ug/L		06/02/25 15:19	06/11/25 18:19	1
Anthracene	<0.19		0.19	ug/L		06/02/25 15:19	06/11/25 18:19	1
Benzo[a]anthracene	<0.19		0.19	ug/L		06/02/25 15:19	06/11/25 18:19	1
Benzo[a]pyrene	<0.19		0.19	ug/L		06/02/25 15:19	06/11/25 18:19	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		06/02/25 15:19	06/11/25 18:19	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		06/02/25 15:19	06/11/25 18:19	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		06/02/25 15:19	06/11/25 18:19	1
Chrysene	<0.19		0.19	ug/L		06/02/25 15:19	06/11/25 18:19	1
Dibenz(a,h)anthracene	<0.19		0.19	ug/L		06/02/25 15:19	06/11/25 18:19	1
Fluoranthene	<0.19		0.19	ug/L		06/02/25 15:19	06/11/25 18:19	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-153104-1
SDG: Weekly

Client Sample ID: Ka'amilo Wells Pump 1

Lab Sample ID: 380-153104-1

Date Collected: 05/28/25 10:38

Matrix: Drinking Water

Date Received: 05/30/25 09:54

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
Fluorene	<0.19		0.19	ug/L		06/02/25 15:19	06/11/25 18:19	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		06/02/25 15:19	06/11/25 18:19	1
Naphthalene	<0.19		0.19	ug/L		06/02/25 15:19	06/11/25 18:19	1
Phenanthrene	<0.19		0.19	ug/L		06/02/25 15:19	06/11/25 18:19	1
Pyrene	<0.19		0.19	ug/L		06/02/25 15:19	06/11/25 18:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	80		28 - 127	06/02/25 15:19	06/11/25 18:19	1
2-Fluorobiphenyl (Surr)	79		31 - 120	06/02/25 15:19	06/11/25 18:19	1
2-Fluorophenol (Surr)	49		17 - 120	06/02/25 15:19	06/11/25 18:19	1
Nitrobenzene-d5 (Surr)	82		27 - 120	06/02/25 15:19	06/11/25 18:19	1
Phenol-d6 (Surr)	31		10 - 120	06/02/25 15:19	06/11/25 18:19	1
p-Terphenyl-d14 (Surr)	86		45 - 120	06/02/25 15:19	06/11/25 18:19	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	06/02/25 15:19	06/11/25 18:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	62		33 - 139	06/02/25 15:19	06/11/25 18:26	1
2-Fluorobiphenyl (Surr)	76		33 - 126	06/02/25 15:19	06/11/25 18:26	1
2-Fluorophenol (Surr)	43		12 - 120	06/02/25 15:19	06/11/25 18:26	1
Nitrobenzene-d5 (Surr)	75		36 - 120	06/02/25 15:19	06/11/25 18:26	1
Phenol-d6 (Surr)	25		10 - 120	06/02/25 15:19	06/11/25 18:26	1
p-Terphenyl-d14 (Surr)	85		47 - 131	06/02/25 15:19	06/11/25 18:26	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			06/04/25 20:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		38 - 134		06/04/25 20:51	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		06/03/25 14:05	06/07/25 02:27	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		06/03/25 14:05	06/07/25 02:27	1
C8-C18	<25		25	ug/L		06/03/25 14:05	06/07/25 02:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	98		60 - 130	06/03/25 14:05	06/07/25 02:27	1

Client Sample ID: TB: Ka'amilo Wells Pump 1

Lab Sample ID: 380-153104-2

Date Collected: 05/28/25 10:38

Matrix: Drinking Water

Date Received: 05/30/25 09:54

PWSID Number: HI0000331

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			06/04/25 15:44	1

Client Sample Results

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

Job ID: 380-153104-1
SDG: Weekly

Client Sample ID: TB: Ka'amilo Wells Pump 1

Lab Sample ID: 380-153104-2

Date Collected: 05/28/25 10:38

Matrix: Drinking Water

Date Received: 05/30/25 09:54

PWSID Number: HI0000331

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		38 - 134		06/04/25 15:44	1

Client Sample ID: Ka'amilo Wells Pump 2

Lab Sample ID: 380-153104-3

Date Collected: 05/28/25 11:21

Matrix: Drinking Water

Date Received: 05/30/25 09:54

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.097		0.097	ug/L		06/04/25 08:14	06/05/25 18:21	1
2,4'-DDD	<0.097		0.097	ug/L		06/04/25 08:14	06/05/25 18:21	1
2,4'-DDE	<0.097		0.097	ug/L		06/04/25 08:14	06/05/25 18:21	1
2,4'-DDT	<0.097		0.097	ug/L		06/04/25 08:14	06/05/25 18:21	1
2,4-Dinitrotoluene	<0.097		0.097	ug/L		06/04/25 08:14	06/05/25 18:21	1
2,6-Dinitrotoluene	<0.097		0.097	ug/L		06/04/25 08:14	06/05/25 18:21	1
2-Methylnaphthalene	<0.097		0.097	ug/L		06/04/25 08:14	06/05/25 18:21	1
4,4'-DDD	<0.097		0.097	ug/L		06/04/25 08:14	06/05/25 18:21	1
4,4'-DDE	<0.097		0.097	ug/L		06/04/25 08:14	06/05/25 18:21	1
4,4'-DDT	<0.097		0.097	ug/L		06/04/25 08:14	06/05/25 18:21	1
Acenaphthene	<0.097		0.097	ug/L		06/04/25 08:14	06/05/25 18:21	1
Acenaphthylene	<0.097		0.097	ug/L		06/04/25 08:14	06/05/25 18:21	1
Acetochlor	<0.097		0.097	ug/L		06/04/25 08:14	06/05/25 18:21	1
Alachlor	<0.048		0.048	ug/L		06/04/25 08:14	06/05/25 18:21	1
alpha-BHC	<0.097		0.097	ug/L		06/04/25 08:14	06/05/25 18:21	1
alpha-Chlordane	<0.048		0.048	ug/L		06/04/25 08:14	06/05/25 18:21	1
Anthracene	<0.019		0.019	ug/L		06/04/25 08:14	06/05/25 18:21	1
Atrazine	<0.048		0.048	ug/L		06/04/25 08:14	06/05/25 18:21	1
Benz(a)anthracene	<0.048		0.048	ug/L		06/04/25 08:14	06/05/25 18:21	1
Benzo[a]pyrene	<0.019		0.019	ug/L		06/04/25 08:14	06/05/25 18:21	1
Benzo[b]fluoranthene	<0.019		0.019	ug/L		06/04/25 08:14	06/05/25 18:21	1
Benzo[g,h,i]perylene	<0.048		0.048	ug/L		06/04/25 08:14	06/05/25 18:21	1
Benzo[k]fluoranthene	<0.019		0.019	ug/L		06/04/25 08:14	06/05/25 18:21	1
beta-BHC	<0.097		0.097	ug/L		06/04/25 08:14	06/05/25 18:21	1
Bis(2-ethylhexyl) phthalate	<0.58		0.58	ug/L		06/04/25 08:14	06/05/25 18:21	1
Bromacil	<0.097		0.097	ug/L		06/04/25 08:14	06/05/25 18:21	1
Butachlor	<0.048		0.048	ug/L		06/04/25 08:14	06/05/25 18:21	1
Butylbenzylphthalate	<0.48		0.48	ug/L		06/04/25 08:14	06/05/25 18:21	1
Chlorobenzilate	<0.097		0.097	ug/L		06/04/25 08:14	06/05/25 18:21	1
Chloroneb	<0.097		0.097	ug/L		06/04/25 08:14	06/05/25 18:21	1
Chlorothalonil (Draconil, Bravo)	<0.097		0.097	ug/L		06/04/25 08:14	06/05/25 18:21	1
Chlorpyrifos	<0.048		0.048	ug/L		06/04/25 08:14	06/05/25 18:21	1
Chrysene	<0.019		0.019	ug/L		06/04/25 08:14	06/05/25 18:21	1
delta-BHC	<0.097		0.097	ug/L		06/04/25 08:14	06/05/25 18:21	1
Di(2-ethylhexyl)adipate	<0.58		0.58	ug/L		06/04/25 08:14	06/05/25 18:21	1
Dibenz(a,h)anthracene	<0.048		0.048	ug/L		06/04/25 08:14	06/05/25 18:21	1
Diclorvos (DDVP)	<0.048		0.048	ug/L		06/04/25 08:14	06/05/25 18:21	1
Dieldrin	0.057		0.0097	ug/L		06/04/25 08:14	06/05/25 18:21	1
Diethylphthalate	<0.48		0.48	ug/L		06/04/25 08:14	06/05/25 18:21	1
Dimethylphthalate	<0.48		0.48	ug/L		06/04/25 08:14	06/05/25 18:21	1
Di-n-butyl phthalate	<0.97		0.97	ug/L		06/04/25 08:14	06/05/25 18:21	1
Di-n-octyl phthalate	<0.097		0.097	ug/L		06/04/25 08:14	06/05/25 18:21	1

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Client Sample Results

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

Job ID: 380-153104-1
SDG: Weekly

Client Sample ID: Ka'amilo Wells Pump 2

Lab Sample ID: 380-153104-3

Date Collected: 05/28/25 11:21

Matrix: Drinking Water

Date Received: 05/30/25 09:54

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)	<0.097		0.097	ug/L		06/04/25 08:14	06/05/25 18:21	1
Endosulfan II (Beta)	<0.097		0.097	ug/L		06/04/25 08:14	06/05/25 18:21	1
Endosulfan sulfate	<0.097		0.097	ug/L		06/04/25 08:14	06/05/25 18:21	1
Endrin	<0.0097		0.0097	ug/L		06/04/25 08:14	06/05/25 18:21	1
Endrin aldehyde	<0.097		0.097	ug/L		06/04/25 08:14	06/05/25 18:21	1
EPTC	<0.097		0.097	ug/L		06/04/25 08:14	06/05/25 18:21	1
Fluoranthene	<0.097		0.097	ug/L		06/04/25 08:14	06/05/25 18:21	1
Fluorene	<0.048		0.048	ug/L		06/04/25 08:14	06/05/25 18:21	1
gamma-Chlordane	<0.048		0.048	ug/L		06/04/25 08:14	06/05/25 18:21	1
Heptachlor	<0.0097		0.0097	ug/L		06/04/25 08:14	06/05/25 18:21	1
Heptachlor epoxide (isomer B)	0.012		0.0097	ug/L		06/04/25 08:14	06/05/25 18:21	1
Hexachlorobenzene	<0.048		0.048	ug/L		06/04/25 08:14	06/05/25 18:21	1
Hexachlorocyclopentadiene	<0.048		0.048	ug/L		06/04/25 08:14	06/05/25 18:21	1
Indeno[1,2,3-cd]pyrene	<0.048		0.048	ug/L		06/04/25 08:14	06/05/25 18:21	1
Isophorone	<0.097		0.097	ug/L		06/04/25 08:14	06/05/25 18:21	1
Lindane	<0.0097		0.0097	ug/L		06/04/25 08:14	06/05/25 18:21	1
Malathion	<0.097		0.097	ug/L		06/04/25 08:14	06/05/25 18:21	1
Methoxychlor	<0.048		0.048	ug/L		06/04/25 08:14	06/05/25 18:21	1
Metolachlor	<0.048		0.048	ug/L		06/04/25 08:14	06/05/25 18:21	1
Molinate	<0.097		0.097	ug/L		06/04/25 08:14	06/05/25 18:21	1
Naphthalene	<0.097		0.097	ug/L		06/04/25 08:14	06/05/25 18:21	1
Parathion	<0.097		0.097	ug/L		06/04/25 08:14	06/05/25 18:21	1
Pendimethalin (Penoxaline)	<0.097		0.097	ug/L		06/04/25 08:14	06/05/25 18:21	1
Phenanthrene	<0.039		0.039	ug/L		06/04/25 08:14	06/05/25 18:21	1
Propachlor	<0.048		0.048	ug/L		06/04/25 08:14	06/05/25 18:21	1
Pyrene	<0.048		0.048	ug/L		06/04/25 08:14	06/05/25 18:21	1
Simazine	<0.048		0.048	ug/L		06/04/25 08:14	06/05/25 18:21	1
Terbacil	<0.097		0.097	ug/L		06/04/25 08:14	06/05/25 18:21	1
Terbutylazine	<0.097		0.097	ug/L		06/04/25 08:14	06/05/25 18:21	1
Thiobencarb	<0.097		0.097	ug/L		06/04/25 08:14	06/05/25 18:21	1
Total Permethrin (mixed isomers)	<0.19		0.19	ug/L		06/04/25 08:14	06/05/25 18:21	1
trans-Nonachlor	<0.048		0.048	ug/L		06/04/25 08:14	06/05/25 18:21	1
Trifluralin	<0.097		0.097	ug/L		06/04/25 08:14	06/05/25 18:21	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	06/04/25 08:14	06/05/25 18:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	90		70 - 130	06/04/25 08:14	06/05/25 18:21	1
Perylene-d12	93		70 - 130	06/04/25 08:14	06/05/25 18:21	1
Triphenylphosphate	104		70 - 130	06/04/25 08:14	06/05/25 18:21	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		06/02/25 15:19	06/11/25 18:42	1
2-Methylnaphthalene	<0.19		0.19	ug/L		06/02/25 15:19	06/11/25 18:42	1
Acenaphthene	<0.19		0.19	ug/L		06/02/25 15:19	06/11/25 18:42	1
Acenaphthylene	<0.19		0.19	ug/L		06/02/25 15:19	06/11/25 18:42	1
Anthracene	<0.19		0.19	ug/L		06/02/25 15:19	06/11/25 18:42	1
Benzo[a]anthracene	<0.19		0.19	ug/L		06/02/25 15:19	06/11/25 18:42	1

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Client Sample Results

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

Job ID: 380-153104-1
SDG: Weekly

Client Sample ID: Ka'amilo Wells Pump 2

Lab Sample ID: 380-153104-3

Date Collected: 05/28/25 11:21

Matrix: Drinking Water

Date Received: 05/30/25 09:54

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		06/02/25 15:19	06/11/25 18:42	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		06/02/25 15:19	06/11/25 18:42	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		06/02/25 15:19	06/11/25 18:42	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		06/02/25 15:19	06/11/25 18:42	1
Chrysene	<0.19		0.19	ug/L		06/02/25 15:19	06/11/25 18:42	1
Dibenz(a,h)anthracene	<0.19		0.19	ug/L		06/02/25 15:19	06/11/25 18:42	1
Fluoranthene	<0.19		0.19	ug/L		06/02/25 15:19	06/11/25 18:42	1
Fluorene	<0.19		0.19	ug/L		06/02/25 15:19	06/11/25 18:42	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		06/02/25 15:19	06/11/25 18:42	1
Naphthalene	<0.19		0.19	ug/L		06/02/25 15:19	06/11/25 18:42	1
Phenanthrene	<0.19		0.19	ug/L		06/02/25 15:19	06/11/25 18:42	1
Pyrene	<0.19		0.19	ug/L		06/02/25 15:19	06/11/25 18:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	79		28 - 127	06/02/25 15:19	06/11/25 18:42	1
2-Fluorobiphenyl (Surr)	69		31 - 120	06/02/25 15:19	06/11/25 18:42	1
2-Fluorophenol (Surr)	42		17 - 120	06/02/25 15:19	06/11/25 18:42	1
Nitrobenzene-d5 (Surr)	71		27 - 120	06/02/25 15:19	06/11/25 18:42	1
Phenol-d6 (Surr)	27		10 - 120	06/02/25 15:19	06/11/25 18:42	1
p-Terphenyl-d14 (Surr)	89		45 - 120	06/02/25 15:19	06/11/25 18:42	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	06/02/25 15:19	06/11/25 18:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	56		33 - 139	06/02/25 15:19	06/11/25 18:51	1
2-Fluorobiphenyl (Surr)	67		33 - 126	06/02/25 15:19	06/11/25 18:51	1
2-Fluorophenol (Surr)	37		12 - 120	06/02/25 15:19	06/11/25 18:51	1
Nitrobenzene-d5 (Surr)	66		36 - 120	06/02/25 15:19	06/11/25 18:51	1
Phenol-d6 (Surr)	21		10 - 120	06/02/25 15:19	06/11/25 18:51	1
p-Terphenyl-d14 (Surr)	83		47 - 131	06/02/25 15:19	06/11/25 18:51	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			06/04/25 21:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		38 - 134		06/04/25 21:16	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		06/03/25 14:05	06/07/25 02:49	1
Motor Oil Range Organics [C24-C36]	<26		26	ug/L		06/03/25 14:05	06/07/25 02:49	1
C8-C18	<26		26	ug/L		06/03/25 14:05	06/07/25 02:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	111		60 - 130	06/03/25 14:05	06/07/25 02:49	1

Client Sample Results

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

Job ID: 380-153104-1
 SDG: Weekly

Client Sample ID: TB: Ka'amilo Wells Pump 2

Lab Sample ID: 380-153104-4

Date Collected: 05/28/25 11:21

Matrix: Drinking Water

Date Received: 05/30/25 09:54

PWSID Number: HI0000331

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			06/04/25 16:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		38 - 134				06/04/25 16:09	1

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

Action Limit Summary

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

Job ID: 380-153104-1
SDG: Weekly

Client Sample ID: Ka'amilo Wells Pump 1

Lab Sample ID: 380-153104-1

PWSID Number: HI0000331

Compliance Check

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

Analyte	Result	Qualifier	Unit	EPAMCL	RL	Method	Prep Type
				Limit			
Alachlor	<0.049		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	<0.0099		ug/L	2	0.0099	525.2	Total/NA
Heptachlor	<0.0099		ug/L	0.4	0.0099	525.2	Total/NA
Heptachlor epoxide (isomer B)	0.014		ug/L	0.2	0.0099	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	<0.0099		ug/L	0.2	0.0099	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: Ka'amilo Wells Pump 2

Lab Sample ID: 380-153104-3

PWSID Number: HI0000331

Compliance Check

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

Analyte	Result	Qualifier	Unit	EPAMCL	RL	Method	Prep Type
				Limit			
Alachlor	<0.048		ug/L	2	0.048	525.2	Total/NA
Atrazine	<0.048		ug/L	3	0.048	525.2	Total/NA
Benzo[a]pyrene	<0.019		ug/L	0.2	0.019	525.2	Total/NA
Bis(2-ethylhexyl) phthalate	<0.58		ug/L	6	0.58	525.2	Total/NA
Di(2-ethylhexyl)adipate	<0.58		ug/L	400	0.58	525.2	Total/NA
Endrin	<0.0097		ug/L	2	0.0097	525.2	Total/NA
Heptachlor	<0.0097		ug/L	0.4	0.0097	525.2	Total/NA
Heptachlor epoxide (isomer B)	0.012		ug/L	0.2	0.0097	525.2	Total/NA
Hexachlorobenzene	<0.048		ug/L	1	0.048	525.2	Total/NA
Hexachlorocyclopentadiene	<0.048		ug/L	50	0.048	525.2	Total/NA
Lindane	<0.0097		ug/L	0.2	0.0097	525.2	Total/NA
Methoxychlor	<0.048		ug/L	40	0.048	525.2	Total/NA
Simazine	<0.048		ug/L	4	0.048	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: 380-153104-1
SDG: Weekly

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

Matrix: Drinking Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		2NMX (70-130)	PRY (70-130)	TPP (70-130)
380-153104-1	Ka'amilo Wells Pump 1	92	97	109
380-153104-3	Ka'amilo Wells Pump 2	90	93	104

Surrogate Legend
 2NMX = 2-Nitro-m-xylene
 PRY = Perylene-d12
 TPP = Triphenylphosphate

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		2NMX (70-130)	PRY (70-130)	TPP (70-130)
380-152582-AU-1-A DU	Duplicate	92	99	109
380-152597-AF-1-A MS	Matrix Spike	92	102	115
LCS 380-155964/23-A	Lab Control Sample	91	102	109
MB 380-155964/21-A	Method Blank	90	85	108
MRL 380-155964/22-A	Lab Control Sample	92	99	111

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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (33-139)	FBP (33-126)	2FP (12-120)	NBZ (36-120)	PHL6 (10-120)	TPHd14 (47-131)
380-153104-1	Ka'amilo Wells Pump 1	62	76	43	75	25	85
380-153104-3	Ka'amilo Wells Pump 2	56	67	37	66	21	83

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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (33-139)	FBP (33-126)	2FP (12-120)	NBZ (36-120)	PHL6 (10-120)	TPHd14 (47-131)
MB 570-578520/1-A	Method Blank	75	77	50	77	27	78

Surrogate Legend
 TBP = 2,4,6-Tribromophenol (Surr)
 FBP = 2-Fluorobiphenyl (Surr)

Surrogate Summary

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

Job ID: 380-153104-1
 SDG: Weekly

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)
380-153104-1	Ka'amilo Wells Pump 1	80	79	49	82	31	86
380-153104-3	Ka'amilo Wells Pump 2	79	69	42	71	27	89

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)
380-152928-A-1-A MS	Matrix Spike	77	72	47	65	31	81
380-152928-A-1-B MSD	Matrix Spike Duplicate	83	78	49	67	32	86
LCS 570-578520/2-A	Lab Control Sample	81	80	61	72	41	87
LCS 570-578520/3-A	Lab Control Sample Dup	86	82	60	71	41	90

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)
380-153104-1	Ka'amilo Wells Pump 1	80
380-153104-2	TB: Ka'amilo Wells Pump 1	83
380-153104-3	Ka'amilo Wells Pump 2	81
380-153104-4	TB: Ka'amilo Wells Pump 2	83

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

Surrogate Summary

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

Job ID: 380-153104-1
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)
380-152928-C-1 MS	Matrix Spike	89
380-152928-C-1 MSD	Matrix Spike Duplicate	90
LCS 570-579386/4	Lab Control Sample	77
LCSD 570-579386/5	Lab Control Sample Dup	76
MB 570-579386/6	Method Blank	67
MRL 570-579386/3	Lab Control Sample	72

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)
380-153104-1	Ka'amilo Wells Pump 1	98
380-153104-3	Ka'amilo Wells Pump 2	111

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)
380-152928-B-1-A MS	Matrix Spike	107
380-152928-B-1-B MSD	Matrix Spike Duplicate	109
LCS 570-578970/2-A	Lab Control Sample	94
LCSD 570-578970/3-A	Lab Control Sample Dup	89
MB 570-578970/1-A	Method Blank	103
MRL 570-578970/4-A	Lab Control Sample	102

Surrogate Legend

OTCSN = n-Octacosane (Surr)

QC Sample Results

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

Job ID: 380-153104-1
SDG: Weekly

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

Lab Sample ID: MB 380-155964/21-A
Matrix: Water
Analysis Batch: 156293

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 155964

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.097		0.097	ug/L		06/04/25 08:14	06/05/25 14:19	1
2,4'-DDD	<0.097		0.097	ug/L		06/04/25 08:14	06/05/25 14:19	1
2,4'-DDE	<0.097		0.097	ug/L		06/04/25 08:14	06/05/25 14:19	1
2,4'-DDT	<0.097		0.097	ug/L		06/04/25 08:14	06/05/25 14:19	1
2,4-Dinitrotoluene	<0.097		0.097	ug/L		06/04/25 08:14	06/05/25 14:19	1
2,6-Dinitrotoluene	<0.097		0.097	ug/L		06/04/25 08:14	06/05/25 14:19	1
2-Methylnaphthalene	<0.097		0.097	ug/L		06/04/25 08:14	06/05/25 14:19	1
4,4'-DDD	<0.097		0.097	ug/L		06/04/25 08:14	06/05/25 14:19	1
4,4'-DDE	<0.097		0.097	ug/L		06/04/25 08:14	06/05/25 14:19	1
4,4'-DDT	<0.097		0.097	ug/L		06/04/25 08:14	06/05/25 14:19	1
Acenaphthene	<0.097		0.097	ug/L		06/04/25 08:14	06/05/25 14:19	1
Acenaphthylene	<0.097		0.097	ug/L		06/04/25 08:14	06/05/25 14:19	1
Acetochlor	<0.097		0.097	ug/L		06/04/25 08:14	06/05/25 14:19	1
Alachlor	<0.049		0.049	ug/L		06/04/25 08:14	06/05/25 14:19	1
alpha-BHC	<0.097		0.097	ug/L		06/04/25 08:14	06/05/25 14:19	1
alpha-Chlordane	<0.049		0.049	ug/L		06/04/25 08:14	06/05/25 14:19	1
Anthracene	<0.019		0.019	ug/L		06/04/25 08:14	06/05/25 14:19	1
Atrazine	<0.049		0.049	ug/L		06/04/25 08:14	06/05/25 14:19	1
Benz(a)anthracene	<0.049		0.049	ug/L		06/04/25 08:14	06/05/25 14:19	1
Benzo[a]pyrene	<0.019		0.019	ug/L		06/04/25 08:14	06/05/25 14:19	1
Benzo[b]fluoranthene	<0.019		0.019	ug/L		06/04/25 08:14	06/05/25 14:19	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		06/04/25 08:14	06/05/25 14:19	1
Benzo[k]fluoranthene	<0.019		0.019	ug/L		06/04/25 08:14	06/05/25 14:19	1
beta-BHC	<0.097		0.097	ug/L		06/04/25 08:14	06/05/25 14:19	1
Bis(2-ethylhexyl) phthalate	<0.58		0.58	ug/L		06/04/25 08:14	06/05/25 14:19	1
Bromacil	<0.097		0.097	ug/L		06/04/25 08:14	06/05/25 14:19	1
Butachlor	<0.049		0.049	ug/L		06/04/25 08:14	06/05/25 14:19	1
Butylbenzylphthalate	<0.49		0.49	ug/L		06/04/25 08:14	06/05/25 14:19	1
Chlorobenzilate	<0.097		0.097	ug/L		06/04/25 08:14	06/05/25 14:19	1
Chloroneb	<0.097		0.097	ug/L		06/04/25 08:14	06/05/25 14:19	1
Chlorothalonil (Draconil, Bravo)	<0.097		0.097	ug/L		06/04/25 08:14	06/05/25 14:19	1
Chlorpyrifos	<0.049		0.049	ug/L		06/04/25 08:14	06/05/25 14:19	1
Chrysene	<0.019		0.019	ug/L		06/04/25 08:14	06/05/25 14:19	1
delta-BHC	<0.097		0.097	ug/L		06/04/25 08:14	06/05/25 14:19	1
Di(2-ethylhexyl)adipate	<0.58		0.58	ug/L		06/04/25 08:14	06/05/25 14:19	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		06/04/25 08:14	06/05/25 14:19	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		06/04/25 08:14	06/05/25 14:19	1
Dieldrin	<0.0097		0.0097	ug/L		06/04/25 08:14	06/05/25 14:19	1
Diethylphthalate	<0.49		0.49	ug/L		06/04/25 08:14	06/05/25 14:19	1
Dimethylphthalate	<0.49		0.49	ug/L		06/04/25 08:14	06/05/25 14:19	1
Di-n-butyl phthalate	<0.97		0.97	ug/L		06/04/25 08:14	06/05/25 14:19	1
Di-n-octyl phthalate	<0.097		0.097	ug/L		06/04/25 08:14	06/05/25 14:19	1
Endosulfan I (Alpha)	<0.097		0.097	ug/L		06/04/25 08:14	06/05/25 14:19	1
Endosulfan II (Beta)	<0.097		0.097	ug/L		06/04/25 08:14	06/05/25 14:19	1
Endosulfan sulfate	<0.097		0.097	ug/L		06/04/25 08:14	06/05/25 14:19	1
Endrin	<0.0097		0.0097	ug/L		06/04/25 08:14	06/05/25 14:19	1
Endrin aldehyde	<0.097		0.097	ug/L		06/04/25 08:14	06/05/25 14:19	1
EPTC	<0.097		0.097	ug/L		06/04/25 08:14	06/05/25 14:19	1

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QC Sample Results

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

Job ID: 380-153104-1
SDG: Weekly

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

Lab Sample ID: MB 380-155964/21-A
Matrix: Water
Analysis Batch: 156293

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 155964

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.097		0.097	ug/L		06/04/25 08:14	06/05/25 14:19	1
Fluorene	<0.049		0.049	ug/L		06/04/25 08:14	06/05/25 14:19	1
gamma-Chlordane	<0.049		0.049	ug/L		06/04/25 08:14	06/05/25 14:19	1
Heptachlor	<0.0097		0.0097	ug/L		06/04/25 08:14	06/05/25 14:19	1
Heptachlor epoxide (isomer B)	<0.0097		0.0097	ug/L		06/04/25 08:14	06/05/25 14:19	1
Hexachlorobenzene	<0.049		0.049	ug/L		06/04/25 08:14	06/05/25 14:19	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		06/04/25 08:14	06/05/25 14:19	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		06/04/25 08:14	06/05/25 14:19	1
Isophorone	<0.097		0.097	ug/L		06/04/25 08:14	06/05/25 14:19	1
Lindane	<0.0097		0.0097	ug/L		06/04/25 08:14	06/05/25 14:19	1
Malathion	<0.097		0.097	ug/L		06/04/25 08:14	06/05/25 14:19	1
Methoxychlor	<0.049		0.049	ug/L		06/04/25 08:14	06/05/25 14:19	1
Metolachlor	<0.049		0.049	ug/L		06/04/25 08:14	06/05/25 14:19	1
Molinate	<0.097		0.097	ug/L		06/04/25 08:14	06/05/25 14:19	1
Naphthalene	<0.097		0.097	ug/L		06/04/25 08:14	06/05/25 14:19	1
Parathion	<0.097		0.097	ug/L		06/04/25 08:14	06/05/25 14:19	1
Pendimethalin (Penoxaline)	<0.097		0.097	ug/L		06/04/25 08:14	06/05/25 14:19	1
Phenanthrene	<0.039		0.039	ug/L		06/04/25 08:14	06/05/25 14:19	1
Propachlor	<0.049		0.049	ug/L		06/04/25 08:14	06/05/25 14:19	1
Pyrene	<0.049		0.049	ug/L		06/04/25 08:14	06/05/25 14:19	1
Simazine	<0.049		0.049	ug/L		06/04/25 08:14	06/05/25 14:19	1
Terbacil	<0.097		0.097	ug/L		06/04/25 08:14	06/05/25 14:19	1
Terbutylazine	<0.097		0.097	ug/L		06/04/25 08:14	06/05/25 14:19	1
Thiobencarb	<0.097		0.097	ug/L		06/04/25 08:14	06/05/25 14:19	1
Total Permethrin (mixed isomers)	<0.19		0.19	ug/L		06/04/25 08:14	06/05/25 14:19	1
trans-Nonachlor	<0.049		0.049	ug/L		06/04/25 08:14	06/05/25 14:19	1
Trifluralin	<0.097		0.097	ug/L		06/04/25 08:14	06/05/25 14:19	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Cyclopentene, 1,2,3,4,5-pentamethyl-	0.823	T J N	ug/L		2.50	1000154-28-6	06/04/25 08:14	06/05/25 14:19	1
Decane	2.17	T J N	ug/L		2.76	124-18-5	06/04/25 08:14	06/05/25 14:19	1
9-Octadecenamide, (Z)-	1.07	T J N	ug/L		7.93	301-02-0	06/04/25 08:14	06/05/25 14:19	1
Unknown	1.27	T J	ug/L		15.68	N/A	06/04/25 08:14	06/05/25 14:19	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	90		70 - 130	06/04/25 08:14	06/05/25 14:19	1
Perylene-d12	85		70 - 130	06/04/25 08:14	06/05/25 14:19	1
Triphenylphosphate	108		70 - 130	06/04/25 08:14	06/05/25 14:19	1

Lab Sample ID: LCS 380-155964/23-A
Matrix: Water
Analysis Batch: 156293

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 155964

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	1.95	1.94		ug/L		99	70 - 130
2,4'-DDD	1.95	2.00		ug/L		102	70 - 130
2,4'-DDE	1.95	2.08		ug/L		107	70 - 130

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QC Sample Results

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

Job ID: 380-153104-1
SDG: Weekly

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

Lab Sample ID: LCS 380-155964/23-A
Matrix: Water
Analysis Batch: 156293

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 155964

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4'-DDT	1.95	1.93		ug/L		99	70 - 130
2,4-Dinitrotoluene	1.95	1.78		ug/L		91	70 - 130
2,6-Dinitrotoluene	1.95	2.06		ug/L		106	70 - 130
2-Methylnaphthalene	1.95	1.94		ug/L		99	70 - 130
4,4'-DDD	1.95	1.92		ug/L		99	70 - 130
4,4'-DDE	1.95	2.25		ug/L		115	70 - 130
4,4'-DDT	1.95	2.04		ug/L		105	70 - 130
Acenaphthene	1.95	1.98		ug/L		101	70 - 130
Acenaphthylene	1.95	2.02		ug/L		104	70 - 130
Acetochlor	1.95	1.83		ug/L		94	70 - 130
Alachlor	1.95	2.08		ug/L		107	70 - 130
alpha-BHC	1.95	1.94		ug/L		99	70 - 130
alpha-Chlordane	1.95	2.10		ug/L		107	70 - 130
Anthracene	1.95	1.83		ug/L		94	70 - 130
Atrazine	1.95	1.94		ug/L		99	70 - 130
Benz(a)anthracene	1.95	2.06		ug/L		105	70 - 130
Benzo[a]pyrene	1.95	2.20		ug/L		113	70 - 130
Benzo[b]fluoranthene	1.95	2.28		ug/L		117	70 - 130
Benzo[g,h,i]perylene	1.95	2.15		ug/L		110	70 - 130
Benzo[k]fluoranthene	1.95	2.35		ug/L		120	70 - 130
beta-BHC	1.95	1.91		ug/L		98	70 - 130
Bis(2-ethylhexyl) phthalate	1.95	1.88		ug/L		96	70 - 130
Bromacil	1.95	1.89		ug/L		97	70 - 130
Butachlor	1.95	1.92		ug/L		98	70 - 130
Butylbenzylphthalate	1.95	2.08		ug/L		107	70 - 130
Chlorobenzilate	1.95	1.93		ug/L		99	70 - 130
Chloroneb	1.95	1.89		ug/L		97	70 - 130
Chlorothalonil (Draconil, Bravo)	1.95	2.09		ug/L		107	70 - 130
Chlorpyrifos	1.95	2.13		ug/L		109	70 - 130
Chrysene	1.95	2.07		ug/L		106	70 - 130
delta-BHC	1.95	1.91		ug/L		98	70 - 130
Di(2-ethylhexyl)adipate	1.95	1.97		ug/L		101	70 - 130
Dibenz(a,h)anthracene	1.95	2.15		ug/L		110	70 - 130
Diclorvos (DDVP)	1.95	1.87		ug/L		96	70 - 130
Dieldrin	1.95	2.03		ug/L		104	70 - 130
Diethylphthalate	1.95	1.97		ug/L		101	70 - 130
Dimethylphthalate	1.95	2.02		ug/L		103	70 - 130
Di-n-butyl phthalate	3.90	3.83		ug/L		98	70 - 130
Di-n-octyl phthalate	1.95	1.81		ug/L		93	70 - 130
Endosulfan I (Alpha)	1.95	1.87		ug/L		96	70 - 130
Endosulfan II (Beta)	1.95	1.93		ug/L		99	70 - 130
Endosulfan sulfate	1.95	2.06		ug/L		105	70 - 130
Endrin	1.95	2.19		ug/L		112	70 - 130
Endrin aldehyde	1.95	2.27		ug/L		116	60 - 130
EPTC	1.95	2.07		ug/L		106	70 - 130
Fluoranthene	1.95	2.06		ug/L		106	70 - 130
Fluorene	1.95	2.08		ug/L		107	70 - 130
gamma-Chlordane	1.95	2.03		ug/L		104	70 - 130
Heptachlor	1.95	2.22		ug/L		114	70 - 130

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QC Sample Results

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

Job ID: 380-153104-1
SDG: Weekly

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

Lab Sample ID: LCS 380-155964/23-A
Matrix: Water
Analysis Batch: 156293

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 155964

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Heptachlor epoxide (isomer B)	1.95	2.25		ug/L		115	70 - 130
Hexachlorobenzene	1.95	2.02		ug/L		104	70 - 130
Hexachlorocyclopentadiene	1.95	2.10		ug/L		107	70 - 130
Indeno[1,2,3-cd]pyrene	1.95	2.23		ug/L		114	70 - 130
Isophorone	1.95	1.82		ug/L		93	70 - 130
Lindane	1.95	2.05		ug/L		105	70 - 130
Malathion	1.95	1.94		ug/L		99	70 - 130
Methoxychlor	1.95	2.04		ug/L		104	70 - 130
Metolachlor	1.95	1.82		ug/L		93	70 - 130
Molinate	1.95	2.04		ug/L		105	70 - 130
Naphthalene	1.95	1.86		ug/L		95	70 - 130
Parathion	1.95	1.97		ug/L		101	70 - 130
Pendimethalin (Penoxaline)	1.95	1.94		ug/L		99	70 - 130
Phenanthrene	1.95	1.94		ug/L		99	70 - 130
Propachlor	1.95	1.99		ug/L		102	70 - 130
Pyrene	1.95	1.94		ug/L		100	70 - 130
Simazine	1.95	1.80		ug/L		92	70 - 130
Terbacil	1.95	2.13		ug/L		109	70 - 130
Terbutylazine	1.95	1.93		ug/L		99	70 - 130
Thiobencarb	1.95	1.83		ug/L		94	70 - 130
trans-Nonachlor	1.95	2.12		ug/L		109	70 - 130
Trifluralin	1.95	1.87		ug/L		96	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Nitro-m-xylene	91		70 - 130
Perylene-d12	102		70 - 130
Triphenylphosphate	109		70 - 130

Lab Sample ID: MRL 380-155964/22-A
Matrix: Water
Analysis Batch: 156293

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 155964

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	0.0977	0.114		ug/L		117	50 - 150
2,4'-DDD	0.0977	0.0940	J	ug/L		96	50 - 150
2,4'-DDE	0.0977	0.113		ug/L		116	50 - 150
2,4'-DDT	0.0977	0.118		ug/L		121	50 - 150
2,4-Dinitrotoluene	0.0977	0.114		ug/L		117	50 - 150
2,6-Dinitrotoluene	0.0977	0.123		ug/L		126	50 - 150
2-Methylnaphthalene	0.0977	0.106		ug/L		109	50 - 150
4,4'-DDD	0.0977	0.117		ug/L		120	50 - 150
4,4'-DDE	0.0977	0.113		ug/L		116	50 - 150
4,4'-DDT	0.0977	0.127		ug/L		130	50 - 150
Acenaphthene	0.0977	0.101		ug/L		103	50 - 150
Acenaphthylene	0.0977	0.101		ug/L		104	50 - 150
Acetochlor	0.0977	0.123		ug/L		126	50 - 150
Alachlor	0.0488	0.0564		ug/L		115	50 - 150
alpha-BHC	0.0977	0.103		ug/L		106	50 - 150

QC Sample Results

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

Job ID: 380-153104-1
 SDG: Weekly

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

Lab Sample ID: MRL 380-155964/22-A
Matrix: Water
Analysis Batch: 156293

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 155964

Analyte	Spike	MRL	MRL	Unit	D	%Rec	%Rec Limits
	Added	Result	Qualifier				
alpha-Chlordane	0.0244	0.0336	J	ug/L		138	50 - 150
Anthracene	0.0195	0.0248		ug/L		127	50 - 150
Atrazine	0.0488	0.0669		ug/L		137	50 - 150
Benz(a)anthracene	0.0488	0.0598		ug/L		123	50 - 150
Benzo[a]pyrene	0.0195	0.0230		ug/L		118	50 - 150
Benzo[b]fluoranthene	0.0195	0.0243		ug/L		125	50 - 150
Benzo[g,h,i]perylene	0.0488	0.0588		ug/L		120	50 - 150
Benzo[k]fluoranthene	0.0195	0.0248		ug/L		127	50 - 150
beta-BHC	0.0977	0.108		ug/L		111	50 - 150
Bis(2-ethylhexyl) phthalate	0.586	0.543	J	ug/L		93	50 - 150
Bromacil	0.0977	0.117		ug/L		120	50 - 150
Butachlor	0.0488	0.0733		ug/L		150	50 - 150
Butylbenzylphthalate	0.488	0.563		ug/L		115	50 - 150
Chlorobenzilate	0.0977	0.109		ug/L		112	50 - 150
Chloroneb	0.0977	0.107		ug/L		110	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0977	0.110		ug/L		113	50 - 150
Chlorpyrifos	0.0488	0.0605		ug/L		124	50 - 150
Chrysene	0.0195	0.0245		ug/L		126	50 - 150
delta-BHC	0.0977	0.0986		ug/L		101	50 - 150
Di(2-ethylhexyl)adipate	0.586	0.625		ug/L		107	50 - 150
Dibenz(a,h)anthracene	0.0488	0.0606		ug/L		124	50 - 150
Diclorvos (DDVP)	0.0488	0.0567		ug/L		116	50 - 150
Dieldrin	0.00977	0.0118		ug/L		121	50 - 150
Diethylphthalate	0.488	0.530		ug/L		109	50 - 150
Dimethylphthalate	0.488	0.543		ug/L		111	50 - 150
Di-n-butyl phthalate	0.488	0.564	J	ug/L		116	49 - 243
Di-n-octyl phthalate	0.0977	0.0874	J	ug/L		90	50 - 150
Endosulfan I (Alpha)	0.0977	0.0884	J	ug/L		91	50 - 150
Endosulfan II (Beta)	0.0977	0.116		ug/L		119	50 - 150
Endosulfan sulfate	0.0977	0.126		ug/L		129	50 - 150
Endrin	0.00977	0.0127		ug/L		130	50 - 150
Endrin aldehyde	0.0977	0.135		ug/L		138	50 - 150
EPTC	0.0977	0.102		ug/L		104	50 - 150
Fluoranthene	0.0977	0.110		ug/L		112	50 - 150
Fluorene	0.0488	0.0598		ug/L		122	50 - 150
gamma-Chlordane	0.0244	0.0350	J	ug/L		143	50 - 150
Heptachlor	0.00977	0.0125		ug/L		128	50 - 150
Heptachlor epoxide (isomer B)	0.00977	0.0139		ug/L		142	50 - 150
Hexachlorobenzene	0.0488	0.0566		ug/L		116	50 - 150
Hexachlorocyclopentadiene	0.0488	0.0496		ug/L		101	50 - 150
Indeno[1,2,3-cd]pyrene	0.0488	0.0628		ug/L		129	50 - 150
Isophorone	0.0977	0.115		ug/L		118	50 - 150
Lindane	0.00977	0.0131		ug/L		134	50 - 150
Malathion	0.0977	0.114		ug/L		116	50 - 150
Methoxychlor	0.0488	0.0731		ug/L		150	50 - 150
Metolachlor	0.0488	0.0644		ug/L		132	50 - 150
Molinate	0.0977	0.107		ug/L		110	50 - 150
Naphthalene	0.0977	0.107		ug/L		110	50 - 150
Parathion	0.0977	0.0989		ug/L		101	50 - 150

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-153104-1
SDG: Weekly

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

Lab Sample ID: MRL 380-155964/22-A
Matrix: Water
Analysis Batch: 156293

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 155964

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Pendimethalin (Penoxaline)	0.0977	0.111		ug/L		114	50 - 150
Phenanthrene	0.0391	0.0495		ug/L		127	50 - 150
Propachlor	0.0488	0.0567		ug/L		116	50 - 150
Pyrene	0.0488	0.0633		ug/L		130	50 - 150
Simazine	0.0488	0.0666		ug/L		136	50 - 150
Terbacil	0.0977	0.104		ug/L		106	50 - 150
Terbutylazine	0.0977	0.113		ug/L		115	50 - 150
Thiobencarb	0.0977	0.106		ug/L		109	50 - 150
trans-Nonachlor	0.0244	0.0344	J	ug/L		141	50 - 150
Trifluralin	0.0977	0.107		ug/L		110	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
2-Nitro-m-xylene	92		70 - 130
Perylene-d12	99		70 - 130
Triphenylphosphate	111		70 - 130

Lab Sample ID: 380-152597-AF-1-A MS
Matrix: Water
Analysis Batch: 156293

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 155964

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.10		1.98	1.97		ug/L		99	70 - 130
2,4'-DDD	<0.10		1.98	2.03		ug/L		102	70 - 130
2,4'-DDE	<0.10		1.98	1.98		ug/L		100	70 - 130
2,4'-DDT	<0.10		1.98	1.79		ug/L		90	70 - 130
2,4-Dinitrotoluene	<0.10		1.98	2.06		ug/L		104	70 - 130
2,6-Dinitrotoluene	<0.10		1.98	2.32		ug/L		117	70 - 130
2-Methylnaphthalene	<0.10		1.98	1.98		ug/L		100	70 - 130
4,4'-DDD	<0.10		1.98	1.94		ug/L		98	70 - 130
4,4'-DDE	<0.10		1.98	2.02		ug/L		102	70 - 130
4,4'-DDT	<0.10		1.98	1.82		ug/L		92	70 - 130
Acenaphthene	<0.10		1.98	1.99		ug/L		101	70 - 130
Acenaphthylene	<0.10		1.98	2.08		ug/L		105	70 - 130
Acetochlor	<0.10		1.98	1.98		ug/L		100	70 - 130
Alachlor	<0.050		1.98	2.21		ug/L		112	70 - 130
alpha-BHC	<0.10		1.98	1.98		ug/L		100	70 - 130
alpha-Chlordane	<0.050		1.98	2.08		ug/L		105	70 - 130
Anthracene	<0.020		1.98	1.90		ug/L		96	70 - 130
Atrazine	<0.050		1.98	2.02		ug/L		102	70 - 130
Benz(a)anthracene	<0.050		1.98	2.07		ug/L		105	70 - 130
Benzo[a]pyrene	<0.020		1.98	2.25		ug/L		114	70 - 130
Benzo[b]fluoranthene	<0.020		1.98	2.30		ug/L		116	70 - 130
Benzo[g,h,i]perylene	<0.050		1.98	1.91		ug/L		97	70 - 130
Benzo[k]fluoranthene	<0.020		1.98	2.33		ug/L		118	70 - 130
beta-BHC	<0.10		1.98	1.99		ug/L		100	70 - 130
Bis(2-ethylhexyl) phthalate	<0.60		1.98	1.58		ug/L		80	70 - 130
Bromacil	<0.10		1.98	2.23		ug/L		113	70 - 130
Butachlor	<0.050		1.98	2.11		ug/L		107	70 - 130

QC Sample Results

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

Job ID: 380-153104-1
 SDG: Weekly

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

Lab Sample ID: 380-152597-AF-1-A MS
Matrix: Water
Analysis Batch: 156293

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 155964

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
Butylbenzylphthalate	<0.50		1.98	2.20		ug/L		111	70 - 130
Chlorobenzilate	<0.10		1.98	2.15		ug/L		109	70 - 130
Chloroneb	<0.10		1.98	1.92		ug/L		97	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.10		1.98	2.24		ug/L		113	70 - 130
Chlorpyrifos	<0.050		1.98	2.23		ug/L		112	70 - 130
Chrysene	<0.020		1.98	2.33		ug/L		118	70 - 130
delta-BHC	<0.10		1.98	2.02		ug/L		102	70 - 130
Di(2-ethylhexyl)adipate	<0.60		1.98	1.57		ug/L		79	70 - 130
Dibenz(a,h)anthracene	<0.050		1.98	1.86		ug/L		94	70 - 130
Diclorvos (DDVP)	<0.050		1.98	1.98		ug/L		100	70 - 130
Dieldrin	<0.010		1.98	2.18		ug/L		110	70 - 130
Diethylphthalate	<0.50		1.98	2.04		ug/L		103	70 - 130
Dimethylphthalate	<0.50		1.98	2.13		ug/L		108	70 - 130
Di-n-butyl phthalate	<1.0		3.96	4.10		ug/L		99	70 - 130
Di-n-octyl phthalate	<0.10		1.98	1.47		ug/L		74	70 - 130
Endosulfan I (Alpha)	<0.10		1.98	1.98		ug/L		100	70 - 130
Endosulfan II (Beta)	<0.10		1.98	2.06		ug/L		104	70 - 130
Endosulfan sulfate	<0.10		1.98	2.25		ug/L		114	70 - 130
Endrin	<0.010		1.98	2.40		ug/L		121	70 - 130
Endrin aldehyde	<0.10		1.98	1.95		ug/L		99	60 - 130
EPTC	<0.10		1.98	2.12		ug/L		107	70 - 130
Fluoranthene	<0.10		1.98	2.18		ug/L		110	70 - 130
Fluorene	<0.050		1.98	2.13		ug/L		107	70 - 130
gamma-Chlordane	<0.050		1.98	2.07		ug/L		105	70 - 130
Heptachlor	<0.010		1.98	2.38		ug/L		120	70 - 130
Heptachlor epoxide (isomer B)	<0.010		1.98	2.42		ug/L		122	70 - 130
Hexachlorobenzene	<0.050		1.98	1.99		ug/L		101	70 - 130
Hexachlorocyclopentadiene	<0.050		1.98	2.21		ug/L		112	70 - 130
Indeno[1,2,3-cd]pyrene	<0.050		1.98	1.99		ug/L		101	70 - 130
Isophorone	<0.10		1.98	1.90		ug/L		96	70 - 130
Lindane	<0.010		1.98	2.15		ug/L		109	70 - 130
Malathion	<0.10		1.98	2.12		ug/L		107	70 - 130
Methoxychlor	<0.050		1.98	2.57		ug/L		130	70 - 130
Metolachlor	<0.050		1.98	1.97		ug/L		100	70 - 130
Molinate	<0.10		1.98	2.11		ug/L		107	70 - 130
Naphthalene	<0.10		1.98	1.93		ug/L		97	70 - 130
Parathion	<0.10		1.98	2.25		ug/L		114	70 - 130
Pendimethalin (Penoxaline)	<0.10		1.98	2.36		ug/L		119	70 - 130
Phenanthrene	<0.040		1.98	2.03		ug/L		103	70 - 130
Propachlor	<0.050		1.98	2.11		ug/L		107	70 - 130
Pyrene	<0.050		1.98	2.05		ug/L		103	70 - 130
Simazine	<0.050		1.98	1.90		ug/L		96	70 - 130
Terbacil	<0.10		1.98	2.45		ug/L		124	70 - 130
Terbutylazine	<0.10		1.98	2.05		ug/L		104	70 - 130
Thiobencarb	<0.10		1.98	1.97		ug/L		100	70 - 130
trans-Nonachlor	<0.050		1.98	2.09		ug/L		106	70 - 130
Trifluralin	<0.10		1.98	2.08		ug/L		105	70 - 130

QC Sample Results

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

Job ID: 380-153104-1
 SDG: Weekly

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

Lab Sample ID: 380-152597-AF-1-A MS
Matrix: Water
Analysis Batch: 156293

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 155964

<i>Surrogate</i>	<i>%Recovery</i>	<i>MS MS Qualifier</i>	<i>Limits</i>
2-Nitro-m-xylene	92		70 - 130
Perylene-d12	102		70 - 130
Triphenylphosphate	115		70 - 130

Lab Sample ID: 380-152582-AU-1-A DU
Matrix: Water
Analysis Batch: 156293

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 155964

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

QC Sample Results

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

Job ID: 380-153104-1
SDG: Weekly

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

Lab Sample ID: 380-152582-AU-1-A DU
Matrix: Water
Analysis Batch: 156293

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 155964

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
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
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	DU %Recovery	DU Qualifier	Limits
2-Nitro-m-xylene	92		70 - 130
Perylene-d12	99		70 - 130
Triphenylphosphate	109		70 - 130

QC Sample Results

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

Job ID: 380-153104-1
SDG: Weekly

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

Lab Sample ID: MB 570-578520/1-A
Matrix: Water
Analysis Batch: 582550

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 578520

<i>Tentatively Identified Compound</i>	<i>Est. Result</i>	<i>MB MB Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>RT</i>	<i>CAS No.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Tentatively Identified Compound</i>		None	ug/L			N/A	06/02/25 15:19	06/11/25 15:37	1

<i>Surrogate</i>	<i>%Recovery</i>	<i>MB MB Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
2,4,6-Tribromophenol (Surr)	75		33 - 139	06/02/25 15:19	06/11/25 15:37	1
2-Fluorobiphenyl (Surr)	77		33 - 126	06/02/25 15:19	06/11/25 15:37	1
2-Fluorophenol (Surr)	50		12 - 120	06/02/25 15:19	06/11/25 15:37	1
Nitrobenzene-d5 (Surr)	77		36 - 120	06/02/25 15:19	06/11/25 15:37	1
Phenol-d6 (Surr)	27		10 - 120	06/02/25 15:19	06/11/25 15:37	1
p-Terphenyl-d14 (Surr)	78		47 - 131	06/02/25 15:19	06/11/25 15:37	1

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

Lab Sample ID: LCS 570-578520/2-A
Matrix: Water
Analysis Batch: 582536

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578520

<i>Analyte</i>	<i>Spike Added</i>	<i>LCS Result</i>	<i>LCS Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec Limits</i>
1-Methylnaphthalene	20.0	18.0		ug/L		90	47 - 120
2-Methylnaphthalene	20.0	20.2		ug/L		101	43 - 120
Acenaphthene	20.0	21.0		ug/L		105	60 - 132
Acenaphthylene	20.0	19.8		ug/L		99	54 - 126
Anthracene	20.0	21.2		ug/L		106	43 - 120
Benzo[a]anthracene	20.0	22.1		ug/L		110	42 - 133
Benzo[a]pyrene	20.0	21.2		ug/L		106	32 - 148
Benzo[b]fluoranthene	20.0	21.4		ug/L		107	42 - 140
Benzo[g,h,i]perylene	20.0	21.0		ug/L		105	1 - 195
Benzo[k]fluoranthene	20.0	20.2		ug/L		101	25 - 146
Chrysene	20.0	20.9		ug/L		104	44 - 140
Dibenz(a,h)anthracene	20.0	21.0		ug/L		105	1 - 200
Fluoranthene	20.0	21.9		ug/L		110	43 - 121
Fluorene	20.0	20.8		ug/L		104	70 - 120
Indeno[1,2,3-cd]pyrene	20.0	22.0		ug/L		110	1 - 151
Naphthalene	20.0	17.5		ug/L		87	36 - 120
Phenanthrene	20.0	20.9		ug/L		105	65 - 120
Pyrene	20.0	22.4		ug/L		112	70 - 120

<i>Surrogate</i>	<i>%Recovery</i>	<i>LCS LCS Qualifier</i>	<i>Limits</i>
2,4,6-Tribromophenol (Surr)	81		28 - 127
2-Fluorobiphenyl (Surr)	80		31 - 120
2-Fluorophenol (Surr)	61		17 - 120
Nitrobenzene-d5 (Surr)	72		27 - 120
Phenol-d6 (Surr)	41		10 - 120
p-Terphenyl-d14 (Surr)	87		45 - 120

QC Sample Results

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

Job ID: 380-153104-1
SDG: Weekly

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

Lab Sample ID: LCSD 570-578520/3-A
Matrix: Water
Analysis Batch: 582536

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 578520

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	20.0	18.2		ug/L		91	47 - 120	1	20
2-Methylnaphthalene	20.0	20.3		ug/L		102	43 - 120	1	20
Acenaphthene	20.0	21.2		ug/L		106	60 - 132	1	29
Acenaphthylene	20.0	20.4		ug/L		102	54 - 126	3	45
Anthracene	20.0	21.8		ug/L		109	43 - 120	3	40
Benzo[a]anthracene	20.0	23.0		ug/L		115	42 - 133	4	32
Benzo[a]pyrene	20.0	22.1		ug/L		111	32 - 148	4	43
Benzo[b]fluoranthene	20.0	21.9		ug/L		109	42 - 140	2	43
Benzo[g,h,i]perylene	20.0	21.5		ug/L		108	1 - 195	3	61
Benzo[k]fluoranthene	20.0	21.5		ug/L		108	25 - 146	7	38
Chrysene	20.0	21.4		ug/L		107	44 - 140	2	53
Dibenz(a,h)anthracene	20.0	21.9		ug/L		109	1 - 200	4	75
Fluoranthene	20.0	22.7		ug/L		114	43 - 121	4	40
Fluorene	20.0	21.0		ug/L		105	70 - 120	1	23
Indeno[1,2,3-cd]pyrene	20.0	22.7		ug/L		114	1 - 151	3	60
Naphthalene	20.0	17.7		ug/L		88	36 - 120	1	39
Phenanthrene	20.0	21.8		ug/L		109	65 - 120	4	24
Pyrene	20.0	23.1		ug/L		115	70 - 120	3	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
2,4,6-Tribromophenol (Surr)	86		28 - 127
2-Fluorobiphenyl (Surr)	82		31 - 120
2-Fluorophenol (Surr)	60		17 - 120
Nitrobenzene-d5 (Surr)	71		27 - 120
Phenol-d6 (Surr)	41		10 - 120
p-Terphenyl-d14 (Surr)	90		45 - 120

Lab Sample ID: 380-152928-A-1-A MS
Matrix: Water
Analysis Batch: 582536

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 578520

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.19		19.3	16.6		ug/L		86	36 - 120
2-Methylnaphthalene	<0.19		19.3	18.5		ug/L		96	32 - 124
Acenaphthene	<0.19		19.3	18.3		ug/L		95	47 - 145
Acenaphthylene	<0.19		19.3	17.5		ug/L		91	33 - 145
Anthracene	<0.19		19.3	19.1		ug/L		99	27 - 133
Benzo[a]anthracene	<0.19		19.3	19.6		ug/L		102	33 - 143
Benzo[a]pyrene	<0.19		19.3	19.0		ug/L		99	17 - 163
Benzo[b]fluoranthene	<0.19		19.3	19.4		ug/L		100	24 - 159
Benzo[g,h,i]perylene	<0.19		19.3	18.4		ug/L		95	1 - 219
Benzo[k]fluoranthene	<0.19		19.3	18.1		ug/L		94	11 - 162
Chrysene	<0.19		19.3	18.6		ug/L		96	17 - 168
Dibenz(a,h)anthracene	<0.19		19.3	18.6		ug/L		97	1 - 227
Fluoranthene	<0.19		19.3	19.1		ug/L		99	26 - 137
Fluorene	<0.19		19.3	18.1		ug/L		94	59 - 121
Indeno[1,2,3-cd]pyrene	<0.19		19.3	19.2		ug/L		100	1 - 171
Naphthalene	<0.19		19.3	15.9		ug/L		82	21 - 133

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-153104-1
SDG: Weekly

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

Lab Sample ID: 380-152928-A-1-A MS
Matrix: Water
Analysis Batch: 582536

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 578520

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Phenanthrene	<0.19		19.3	18.9		ug/L		98	54 - 120
Pyrene	<0.19		19.3	20.4		ug/L		106	52 - 120

Surrogate	MS %Recovery	MS Qualifier	MS Limits
2,4,6-Tribromophenol (Surr)	77		28 - 127
2-Fluorobiphenyl (Surr)	72		31 - 120
2-Fluorophenol (Surr)	47		17 - 120
Nitrobenzene-d5 (Surr)	65		27 - 120
Phenol-d6 (Surr)	31		10 - 120
p-Terphenyl-d14 (Surr)	81		45 - 120

Lab Sample ID: 380-152928-A-1-B MSD
Matrix: Water
Analysis Batch: 582536

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 578520

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	<0.19		19.3	17.5		ug/L		90	36 - 120	5	30
2-Methylnaphthalene	<0.19		19.3	19.6		ug/L		101	32 - 124	6	30
Acenaphthene	<0.19		19.3	20.1		ug/L		104	47 - 145	9	48
Acenaphthylene	<0.19		19.3	18.8		ug/L		97	33 - 145	7	74
Anthracene	<0.19		19.3	21.1		ug/L		109	27 - 133	10	66
Benzo[a]anthracene	<0.19		19.3	21.9		ug/L		113	33 - 143	11	53
Benzo[a]pyrene	<0.19		19.3	21.2		ug/L		110	17 - 163	11	72
Benzo[b]fluoranthene	<0.19		19.3	21.2		ug/L		110	24 - 159	9	71
Benzo[g,h,i]perylene	<0.19		19.3	20.0		ug/L		104	1 - 219	9	97
Benzo[k]fluoranthene	<0.19		19.3	20.2		ug/L		104	11 - 162	11	63
Chrysene	<0.19		19.3	20.4		ug/L		106	17 - 168	9	87
Dibenz(a,h)anthracene	<0.19		19.3	20.3		ug/L		105	1 - 227	9	126
Fluoranthene	<0.19		19.3	20.9		ug/L		108	26 - 137	9	66
Fluorene	<0.19		19.3	19.5		ug/L		101	59 - 121	7	38
Indeno[1,2,3-cd]pyrene	<0.19		19.3	21.3		ug/L		110	1 - 171	10	99
Naphthalene	<0.19		19.3	16.4		ug/L		85	21 - 133	3	65
Phenanthrene	<0.19		19.3	20.4		ug/L		106	54 - 120	7	39
Pyrene	<0.19		19.3	22.0		ug/L		114	52 - 120	8	49

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
2,4,6-Tribromophenol (Surr)	83		28 - 127
2-Fluorobiphenyl (Surr)	78		31 - 120
2-Fluorophenol (Surr)	49		17 - 120
Nitrobenzene-d5 (Surr)	67		27 - 120
Phenol-d6 (Surr)	32		10 - 120
p-Terphenyl-d14 (Surr)	86		45 - 120

QC Sample Results

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

Job ID: 380-153104-1
SDG: Weekly

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

Lab Sample ID: MB 570-579386/6
Matrix: Water
Analysis Batch: 579386

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			06/04/25 12:38	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	67		38 - 134				06/04/25 12:38	1

Lab Sample ID: LCS 570-579386/4
Matrix: Water
Analysis Batch: 579386

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	354		ug/L		88	78 - 120
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	77		38 - 134				

Lab Sample ID: LCSD 570-579386/5
Matrix: Water
Analysis Batch: 579386

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	342		ug/L		85	78 - 120	3	10
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	76		38 - 134						

Lab Sample ID: MRL 570-579386/3
Matrix: Water
Analysis Batch: 579386

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (C4-C13)	10.0	9.48	J	ug/L		95	50 - 150
Surrogate	MRL %Recovery	MRL Qualifier	Limits				
4-Bromofluorobenzene (Surr)	72		38 - 134				

Lab Sample ID: 380-152928-C-1 MS
Matrix: Water
Analysis Batch: 579386

Client Sample ID: Matrix Spike
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	421		ug/L		105	68 - 122
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	89		38 - 134						

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-153104-1
SDG: Weekly

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

Lab Sample ID: 380-152928-C-1 MSD
Matrix: Water
Analysis Batch: 579386

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (C4-C13)	<10		400	397		ug/L		99	68 - 122	6	18
Surrogate	%Recovery	MSD Qualifier	MSD Limits								
4-Bromofluorobenzene (Surr)	90		38 - 134								

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

Lab Sample ID: MB 570-578970/1-A
Matrix: Water
Analysis Batch: 580766

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 578970

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<25		25	ug/L		06/03/25 14:03	06/06/25 22:34	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		06/03/25 14:03	06/06/25 22:34	1
C8-C18	<25		25	ug/L		06/03/25 14:03	06/06/25 22:34	1
Surrogate	%Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac		
n-Octacosane (Surr)	103		60 - 130	06/03/25 14:03	06/06/25 22:34	1		

Lab Sample ID: LCS 570-578970/2-A
Matrix: Water
Analysis Batch: 580766

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578970

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
C10-C28	1600	1310		ug/L		82	56 - 127
Surrogate	%Recovery	LCS Qualifier	LCS Limits				
n-Octacosane (Surr)	94		60 - 130				

Lab Sample ID: LCSD 570-578970/3-A
Matrix: Water
Analysis Batch: 580766

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 578970

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28	1600	1260		ug/L		79	56 - 127	4	23
Surrogate	%Recovery	LCSD Qualifier	LCSD Limits						
n-Octacosane (Surr)	89		60 - 130						

Lab Sample ID: MRL 570-578970/4-A
Matrix: Water
Analysis Batch: 580766

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578970

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
C10-C28	0.0200	0.0210	J	mg/L		105	50 - 150

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-153104-1
 SDG: Weekly

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

Lab Sample ID: MRL 570-578970/4-A
Matrix: Water
Analysis Batch: 580766

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578970

<u>Surrogate</u>	<u>MRL</u> <u>%Recovery</u>	<u>MRL</u> <u>Qualifier</u>	<u>Limits</u>
<i>n-Octacosane (Surr)</i>	102		60 - 130

Lab Sample ID: 380-152928-B-1-A MS
Matrix: Water
Analysis Batch: 580766

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 578970

<u>Analyte</u>	<u>Sample</u> <u>Result</u>	<u>Sample</u> <u>Qualifier</u>	<u>Spike</u> <u>Added</u>	<u>MS</u> <u>Result</u>	<u>MS</u> <u>Qualifier</u>	<u>Unit</u>	<u>D</u>	<u>%Rec</u>	<u>Limits</u>
C10-C28	<25		1640	1530		ug/L		93	70 - 130

<u>Surrogate</u>	<u>MS</u> <u>%Recovery</u>	<u>MS</u> <u>Qualifier</u>	<u>Limits</u>
<i>n-Octacosane (Surr)</i>	107		60 - 130

Lab Sample ID: 380-152928-B-1-B MSD
Matrix: Water
Analysis Batch: 580766

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 578970

<u>Analyte</u>	<u>Sample</u> <u>Result</u>	<u>Sample</u> <u>Qualifier</u>	<u>Spike</u> <u>Added</u>	<u>MSD</u> <u>Result</u>	<u>MSD</u> <u>Qualifier</u>	<u>Unit</u>	<u>D</u>	<u>%Rec</u>	<u>Limits</u>	<u>RPD</u>	<u>RPD</u> <u>Limit</u>
C10-C28	<25		1650	1550		ug/L		94	70 - 130	2	20

<u>Surrogate</u>	<u>MSD</u> <u>%Recovery</u>	<u>MSD</u> <u>Qualifier</u>	<u>Limits</u>
<i>n-Octacosane (Surr)</i>	109		60 - 130

QC Association Summary

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

Job ID: 380-153104-1
SDG: Weekly

GC/MS Semi VOA

Prep Batch: 155964

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-153104-1	Ka'amilo Wells Pump 1	Total/NA	Drinking Water	525.2	
380-153104-3	Ka'amilo Wells Pump 2	Total/NA	Drinking Water	525.2	
MB 380-155964/21-A	Method Blank	Total/NA	Water	525.2	
LCS 380-155964/23-A	Lab Control Sample	Total/NA	Water	525.2	
MRL 380-155964/22-A	Lab Control Sample	Total/NA	Water	525.2	
380-152597-AF-1-A MS	Matrix Spike	Total/NA	Water	525.2	
380-152582-AU-1-A DU	Duplicate	Total/NA	Water	525.2	

Analysis Batch: 156293

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-153104-1	Ka'amilo Wells Pump 1	Total/NA	Drinking Water	525.2	155964
380-153104-3	Ka'amilo Wells Pump 2	Total/NA	Drinking Water	525.2	155964
MB 380-155964/21-A	Method Blank	Total/NA	Water	525.2	155964
LCS 380-155964/23-A	Lab Control Sample	Total/NA	Water	525.2	155964
MRL 380-155964/22-A	Lab Control Sample	Total/NA	Water	525.2	155964
380-152597-AF-1-A MS	Matrix Spike	Total/NA	Water	525.2	155964
380-152582-AU-1-A DU	Duplicate	Total/NA	Water	525.2	155964

Prep Batch: 578520

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-153104-1	Ka'amilo Wells Pump 1	Total/NA	Drinking Water	625.1	
380-153104-3	Ka'amilo Wells Pump 2	Total/NA	Drinking Water	625.1	
MB 570-578520/1-A	Method Blank	Total/NA	Water	625.1	
LCS 570-578520/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 570-578520/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	
380-152928-A-1-A MS	Matrix Spike	Total/NA	Water	625.1	
380-152928-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	625.1	

Analysis Batch: 582536

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-153104-1	Ka'amilo Wells Pump 1	Total/NA	Drinking Water	625.1 SIM	578520
380-153104-3	Ka'amilo Wells Pump 2	Total/NA	Drinking Water	625.1 SIM	578520
LCS 570-578520/2-A	Lab Control Sample	Total/NA	Water	625.1 SIM	578520
LCSD 570-578520/3-A	Lab Control Sample Dup	Total/NA	Water	625.1 SIM	578520
380-152928-A-1-A MS	Matrix Spike	Total/NA	Water	625.1 SIM	578520
380-152928-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	625.1 SIM	578520

Analysis Batch: 582550

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-153104-1	Ka'amilo Wells Pump 1	Total/NA	Drinking Water	625.1	578520
380-153104-3	Ka'amilo Wells Pump 2	Total/NA	Drinking Water	625.1	578520
MB 570-578520/1-A	Method Blank	Total/NA	Water	625.1	578520

GC VOA

Analysis Batch: 579386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-153104-1	Ka'amilo Wells Pump 1	Total/NA	Drinking Water	8015B GRO LL	
380-153104-2	TB: Ka'amilo Wells Pump 1	Total/NA	Drinking Water	8015B GRO LL	
380-153104-3	Ka'amilo Wells Pump 2	Total/NA	Drinking Water	8015B GRO LL	
380-153104-4	TB: Ka'amilo Wells Pump 2	Total/NA	Drinking Water	8015B GRO LL	

QC Association Summary

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

Job ID: 380-153104-1
 SDG: Weekly

GC VOA (Continued)

Analysis Batch: 579386 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-579386/6	Method Blank	Total/NA	Water	8015B GRO LL	
LCS 570-579386/4	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-579386/5	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	
MRL 570-579386/3	Lab Control Sample	Total/NA	Water	8015B GRO LL	
380-152928-C-1 MS	Matrix Spike	Total/NA	Water	8015B GRO LL	
380-152928-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8015B GRO LL	

GC Semi VOA

Prep Batch: 578970

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-153104-1	Ka'amilo Wells Pump 1	Total/NA	Drinking Water	3510C	
380-153104-3	Ka'amilo Wells Pump 2	Total/NA	Drinking Water	3510C	
MB 570-578970/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-578970/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-578970/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-578970/4-A	Lab Control Sample	Total/NA	Water	3510C	
380-152928-B-1-A MS	Matrix Spike	Total/NA	Water	3510C	
380-152928-B-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

Analysis Batch: 580766

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-153104-1	Ka'amilo Wells Pump 1	Total/NA	Drinking Water	8015B	578970
380-153104-3	Ka'amilo Wells Pump 2	Total/NA	Drinking Water	8015B	578970
MB 570-578970/1-A	Method Blank	Total/NA	Water	8015B	578970
LCS 570-578970/2-A	Lab Control Sample	Total/NA	Water	8015B	578970
LCSD 570-578970/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	578970
MRL 570-578970/4-A	Lab Control Sample	Total/NA	Water	8015B	578970
380-152928-B-1-A MS	Matrix Spike	Total/NA	Water	8015B	578970
380-152928-B-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	8015B	578970

Lab Chronicle

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

Job ID: 380-153104-1
SDG: Weekly

Client Sample ID: Ka'amilo Wells Pump 1
Date Collected: 05/28/25 10:38
Date Received: 05/30/25 09:54

Lab Sample ID: 380-153104-1
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			155964	KRD3	EA POM	06/04/25 08:14
Total/NA	Analysis	525.2		1	156293	UPAC	EA POM	06/05/25 18:01
Total/NA	Prep	625.1			578520	TR8L	EET CAL 4	06/02/25 15:19
Total/NA	Analysis	625.1		1	582550	J7WE	EET CAL 4	06/11/25 18:26
Total/NA	Prep	625.1			578520	TR8L	EET CAL 4	06/02/25 15:19
Total/NA	Analysis	625.1 SIM		1	582536	PQS1	EET CAL 4	06/11/25 18:19
Total/NA	Analysis	8015B GRO LL		1	579386	A9VE	EET CAL 4	06/04/25 20:51
Total/NA	Prep	3510C			578970	TVD6	EET CAL 4	06/03/25 14:05
Total/NA	Analysis	8015B		1	580766	E5RH	EET CAL 4	06/07/25 02:27

Client Sample ID: TB: Ka'amilo Wells Pump 1
Date Collected: 05/28/25 10:38
Date Received: 05/30/25 09:54

Lab Sample ID: 380-153104-2
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	579386	A9VE	EET CAL 4	06/04/25 15:44

Client Sample ID: Ka'amilo Wells Pump 2
Date Collected: 05/28/25 11:21
Date Received: 05/30/25 09:54

Lab Sample ID: 380-153104-3
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			155964	KRD3	EA POM	06/04/25 08:14
Total/NA	Analysis	525.2		1	156293	UPAC	EA POM	06/05/25 18:21
Total/NA	Prep	625.1			578520	TR8L	EET CAL 4	06/02/25 15:19
Total/NA	Analysis	625.1		1	582550	J7WE	EET CAL 4	06/11/25 18:51
Total/NA	Prep	625.1			578520	TR8L	EET CAL 4	06/02/25 15:19
Total/NA	Analysis	625.1 SIM		1	582536	PQS1	EET CAL 4	06/11/25 18:42
Total/NA	Analysis	8015B GRO LL		1	579386	A9VE	EET CAL 4	06/04/25 21:16
Total/NA	Prep	3510C			578970	TVD6	EET CAL 4	06/03/25 14:05
Total/NA	Analysis	8015B		1	580766	E5RH	EET CAL 4	06/07/25 02:49

Client Sample ID: TB: Ka'amilo Wells Pump 2
Date Collected: 05/28/25 11:21
Date Received: 05/30/25 09:54

Lab Sample ID: 380-153104-4
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	579386	A9VE	EET CAL 4	06/04/25 16:09

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

Accreditation/Certification Summary

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

Job ID: 380-153104-1
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

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

Eurofins Eaton Analytical Pomona

Accreditation/Certification Summary

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

Job ID: 380-153104-1
SDG: Weekly

Laboratory: Eurofins Calscience (Continued)

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

Authority	Program	Identification Number	Expiration Date
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

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Method Summary

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

Job ID: 380-153104-1
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: 380-153104-1
SDG: Weekly

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	PWSID Number
380-153104-1	Ka'amilo Wells Pump 1	Drinking Water	05/28/25 10:38	05/30/25 09:54	HI0000331
380-153104-2	TB: Ka'amilo Wells Pump 1	Drinking Water	05/28/25 10:38	05/30/25 09:54	HI0000331
380-153104-3	Ka'amilo Wells Pump 2	Drinking Water	05/28/25 11:21	05/30/25 09:54	HI0000331
380-153104-4	TB: Ka'amilo Wells Pump 2	Drinking Water	05/28/25 11:21	05/30/25 09:54	HI0000331

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Chain of Custody Record



Sampler bailey		Lab PM Arada, Rachelle		Carrier Tracking No(s)		COC No: 380-28005-2757 1					
Client Contact Mr Kirk Iwamoto		E-Mail: Rachelle.Arada@et.eurofins.com		State of Origin:		Page: Page 1 of 1					
Company		PWSID:		Job #:							
Due Date Requested:				Analysis Requested							
TAT Requested (days):				633 - All Analytes							
Compliance Project: Δ Yes Δ No				637.1_DW_PREC - 637.1 Full List							
PO #: C20525101 exp 05312023				652.2_PREC - (MOD) 62plus Plus TCA							
WO #:				8016B_DRO_LL_CS - HNL Ranges: C10-C24/C24-C38/C8-C18							
Project #: 38001111				8016B_GRO_LL - (MOD) GRO							
SSOW#:				826.1_626.1 SIM							
Address: 630 South Beretania Street Chemistry Lab Honolulu State, Zip: HI, 96843 Phone: 808-748-5840 (Tel) Email: kiwamoto@hbws.org Project Name: RED-HILL/HBWS Sites Event Desc: RUSH Weekly Red Hill Site: Hawaii				Field Filtered Sample (Yes or No)				Perform MS/MSD (Yes or No)			
Sample Date				Sample Time				Sample Preservation Code:			
28-May-2025				1038				R 2 3 2 2			
Ka'amilo Wells Pump 1				G				Q 2 3 2 2			
Ka'amilo Wells Pump 1 (Matrix Spike)											
Ka'amilo Wells Pump 1 (Matrix Spike Duplicate)											
TB: Ka'amilo Wells Pump 1											
Ka'amilo Wells Pump 2											
Ka'amilo Wells Pump 2 (Matrix Spike)											
Ka'amilo Wells Pump 2 (Matrix Spike Duplicate)											
TB: Ka'amilo Wells Pump 2											
Possible Hazard Identification				Return To Client				Disposal By Lab			
<input type="checkbox"/> Non-Hazard				<input type="checkbox"/> Flammable				<input type="checkbox"/> Skin Irritant			
<input type="checkbox"/> Poison B				<input type="checkbox"/> Unknown				<input type="checkbox"/> Radiological			
Deliverable Requested: I, II, III, IV, Other (specify)				Special Instructions/QC Requirements:				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
Empty Kit Relinquished by				Date: 29 May 2025				Date/Time: 05/30/25 09:54			
Relinquished by				Date/Time: 29 May 2025				Date/Time: 05/30/25 09:54			
Relinquished by				Date/Time:				Date/Time:			
Custody Seals Intact: Δ Yes Δ 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



eurofins

Envi

Loc: 380
153104

Client Information (Sub Contract Lab)		Sampler: N/A	Lab PM: Lopez, Maria	Carrier Tracking No(s): N/A	COC No: 380-218129.1																																																																								
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 #: 380-153104-1																																																																								
Address: 2841 Dow Avenue, Suite 100, City: Tustin State, Zip: CA, 92780		Due Date Requested: 6/12/2025	<table border="1"> <thead> <tr> <th colspan="10">Analysis Requested</th> </tr> <tr> <th>Field Filtered Sample (Yes or No)</th> <th>Param. MS/MSD (Yes or No)</th> <th>80166_DRO_LL_CS3510C_LL_HNL Ranges: C10-C24/C24-C36/C36-C18</th> <th>625.1_SIM625_Prep (MOD) Extended PAH List</th> <th>8019B_GRO_LL8030C (MOD) GRO</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>Total Number of Containers</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td></td> <td></td> </tr> </tbody> </table>		Analysis Requested										Field Filtered Sample (Yes or No)	Param. MS/MSD (Yes or No)	80166_DRO_LL_CS3510C_LL_HNL Ranges: C10-C24/C24-C36/C36-C18	625.1_SIM625_Prep (MOD) Extended PAH List	8019B_GRO_LL8030C (MOD) GRO						Total Number of Containers			X	X	X											X															X			Preservation Codes: -																		
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Phone: 714-895-6494(Tel)		PO #: N/A	<table border="1"> <thead> <tr> <th>Sample Identification - Client ID (Lab ID)</th> <th>Sample Date</th> <th>Sample Time</th> <th>Sample Type (C=Comp, G=grab)</th> <th>Matrix (Water, Sealed, Onsite/Off, BT=Tissue, A=Air)</th> <th>Field Filtered Sample (Yes or No)</th> <th>Param. MS/MSD (Yes or No)</th> <th>80166_DRO_LL_CS3510C_LL_HNL Ranges: C10-C24/C24-C36/C36-C18</th> <th>625.1_SIM625_Prep (MOD) Extended PAH List</th> <th>8019B_GRO_LL8030C (MOD) GRO</th> <th>Total Number of Containers</th> <th>Special Instructions/Note:</th> </tr> </thead> <tbody> <tr> <td colspan="12">Preservation Codes:</td> </tr> <tr> <td>Ka'amilo Wells Pump 1 (380-153104-1)</td> <td>5/28/25</td> <td>10:38 Hawaiian</td> <td>G</td> <td>Water</td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>7</td> <td>MRLs are needed. Confirm any hits >RL.</td> </tr> <tr> <td>TB: Ka'amilo Wells Pump 1 (380-153104-2)</td> <td>5/28/25</td> <td>10:38 Hawaiian</td> <td>G</td> <td>Water</td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>8</td> <td>MRLs are needed.</td> </tr> <tr> <td>Ka'amilo Wells Pump 2 (380-153104-3)</td> <td>5/28/25</td> <td>11:21 Hawaiian</td> <td>G</td> <td>Water</td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>7</td> <td>MRLs are needed. Confirm any hits >RL.</td> </tr> <tr> <td>TB: Ka'amilo Wells Pump 2 (380-153104-4)</td> <td>5/28/25</td> <td>11:21 Hawaiian</td> <td>G</td> <td>Water</td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>8</td> <td>MRLs are needed.</td> </tr> </tbody> </table>			Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Sealed, Onsite/Off, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Param. MS/MSD (Yes or No)	80166_DRO_LL_CS3510C_LL_HNL Ranges: C10-C24/C24-C36/C36-C18	625.1_SIM625_Prep (MOD) Extended PAH List	8019B_GRO_LL8030C (MOD) GRO	Total Number of Containers	Special Instructions/Note:	Preservation Codes:												Ka'amilo Wells Pump 1 (380-153104-1)	5/28/25	10:38 Hawaiian	G	Water			X	X	X	7	MRLs are needed. Confirm any hits >RL.	TB: Ka'amilo Wells Pump 1 (380-153104-2)	5/28/25	10:38 Hawaiian	G	Water					X	8	MRLs are needed.	Ka'amilo Wells Pump 2 (380-153104-3)	5/28/25	11:21 Hawaiian	G	Water			X	X	X	7	MRLs are needed. Confirm any hits >RL.	TB: Ka'amilo Wells Pump 2 (380-153104-4)	5/28/25	11:21 Hawaiian	G	Water					X	8	MRLs are needed.
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time				Sample Type (C=Comp, G=grab)	Matrix (Water, Sealed, Onsite/Off, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Param. MS/MSD (Yes or No)	80166_DRO_LL_CS3510C_LL_HNL Ranges: C10-C24/C24-C36/C36-C18	625.1_SIM625_Prep (MOD) Extended PAH List	8019B_GRO_LL8030C (MOD) GRO	Total Number of Containers	Special Instructions/Note:																																																															
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Ka'amilo Wells Pump 2 (380-153104-3)	5/28/25	11:21 Hawaiian	G	Water			X	X	X	7	MRLs are needed. Confirm any hits >RL.																																																																		
TB: Ka'amilo Wells Pump 2 (380-153104-4)	5/28/25	11:21 Hawaiian	G	Water					X	8	MRLs are needed.																																																																		
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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/test/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		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Deliverable Requested: I, II, III, IV, Other (specify)		Primary Deliverable Rank: 2		Special Instructions/QC Requirements:	
Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:	
Relinquished by: <i>[Signature]</i>	Date/Time: 5/31/25 0950	Company: <i>[Signature]</i>	Received by: <i>[Signature]</i>	Date/Time: 5/31/25 0950	Company: WP
Relinquished by: <i>[Signature]</i>	Date/Time: 5/31/25 1640	Company: WP	Received by: <i>[Signature]</i>	Date/Time: 05/31/2025 1020	Company: EC
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3-3/3-8 SC11			

Eurofins Eaton Analytical Pomona

941 Corporate Center Drive
 Pomona, CA 91768-2642
 Phone: 626-386-1100

Chain of Custody Record



eurofins

Envi

Loc: 380
153104

Client Information (Sub Contract Lab)		Sampler: N/A	Lab PM: Lopez, Maria	Carrier Tracking No(s): N/A	COC No: 380-218129.1																																																																	
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 #: 380-153104-1																																																																	
Address: 2841 Dow Avenue, Suite 100, City: Tustin State, Zip: CA, 92780		Due Date Requested: 6/12/2025	<table border="1"> <thead> <tr> <th colspan="10">Analysis Requested</th> </tr> <tr> <th>Field Filtered Sample (Yes or No)</th> <th>Perform MS/MSD (Yes or No)</th> <th>80166_DRO_LL_CS3510C_LL_HNL Ranges: C10-C24/C24-C36/C36-C18</th> <th>625.1_SIM625_Prep (MOD) Extended PAH List</th> <th>8019B_GRO_LL8030C (MOD) GRO</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>Total Number of Containers</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>7</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td></td> <td>2</td> </tr> <tr> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>7</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td></td> <td>2</td> </tr> </tbody> </table>		Analysis Requested										Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	80166_DRO_LL_CS3510C_LL_HNL Ranges: C10-C24/C24-C36/C36-C18	625.1_SIM625_Prep (MOD) Extended PAH List	8019B_GRO_LL8030C (MOD) GRO						Total Number of Containers			X	X	X						7									X		2			X	X	X						7									X		2	Preservation Codes: -
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Other: N/A																																																																						



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/test/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	<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliverable Rank: 2
Special Instructions/QC Requirements:	

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: <i>[Signature]</i>	Date/Time: 5/31/25 0950	Company: <i>[Signature]</i>	Received by: <i>[Signature]</i> Date/Time: 5/31/25 0950 Company: WP
Relinquished by: <i>[Signature]</i>	Date/Time: 5/31/25 1640	Company: WP	Received by: <i>[Signature]</i> Date/Time: 05/31/2025 1020 Company: EC
Relinquished by:	Date/Time:	Company:	Received by: Date/Time: Company:

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3-3/3-8 SC11
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- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-153104-1

SDG Number: Weekly

Login Number: 153104

List Number: 1

Creator: Leon, Mosses

List Source: Eurofins Eaton Analytical Pomona

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



Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-153104-1

SDG Number: Weekly

Login Number: 153104

List Number: 2

Creator: Khana, Piyush

List Source: Eurofins Calscience

List Creation: 06/02/25 12:01 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	3.8
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 <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	False	