

ANALYTICAL REPORT

PREPARED FOR

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JOB DESCRIPTION

RED-HILL
Weekly

JOB NUMBER

380-143376-1

Eurofins Eaton Analytical Pomona

Job Notes

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The test results in this report relate only to the samples as received by the laboratory and meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Eaton Analytical, LLC Project Manager.

Compliance Statement

1. Laboratory is accredited in accordance with TNI 2016 Standards and ISO/IEC 17025:2017.
2. Laboratory certifies that the test results meet all TNI 2016 and ISO/IEC 17025:2017 requirements unless noted under the individual analysis
3. Test results relate only to the sample(s) tested.
4. This report shall not be reproduced except in full, without the written approval of the laboratory.
5. Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.
(DW, Water matrices)

Authorization



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Definitions/Glossary

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

Job ID: 380-143376-1
SDG: Weekly

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
^3+	Reporting Limit Check Standard is outside acceptance limits, high biased

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: 380-143376-1

Job ID: 380-143376-1

Eurofins Eaton Analytical Pomona

Job Narrative 380-143376-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

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

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

Receipt

The samples were received on 4/2/2025 9:20 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 7 coolers at receipt time were 1.4°C, 1.5°C, 1.8°C, 4.7°C, 4.8°C, 5.0°C and 5.4°C.

GC/MS Semi VOA

Method 625.1_SIM: The following analyte(s) recovered outside control limits for the LCSD associated with preparation batch 570-553677 and analytical batch 570-556409: Fluoranthene. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

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

Gasoline Range Organics

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

Diesel Range Organics

Method 8015B_DRO_LL_CS: The method reporting limit check (MRL) for preparation batch 570-554296 and analytical batch 570-557672 recovered outside control limits for the following analytes: C10-C28. These analytes were biased high in the MRL and were not detected in the associated samples; therefore, the data have been reported.

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: 380-143376-1
SDG: Weekly

Client Sample ID: Ka'amilo Wells

Lab Sample ID: 380-143376-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Dieldrin	0.029		0.0099	ug/L	1		525.2	Total/NA

Client Sample ID: TB: Ka'amilo Wells

Lab Sample ID: 380-143376-2

No Detections.

Client Sample ID: MOANALUA WELLS (331-223-TP202)

Lab Sample ID: 380-143376-3

No Detections.

Client Sample ID: TB:MOANALUA WELLS (331-223-TP202)

Lab Sample ID: 380-143376-4

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: 380-143376-1
SDG: Weekly

Client Sample ID: Ka'amilo Wells

Lab Sample ID: 380-143376-1

Date Collected: 03/31/25 11:53

Matrix: Water

Date Received: 04/02/25 09:20

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		04/03/25 14:31	04/04/25 16:37	1
2,4'-DDD	<0.099		0.099	ug/L		04/03/25 14:31	04/04/25 16:37	1
2,4'-DDE	<0.099		0.099	ug/L		04/03/25 14:31	04/04/25 16:37	1
2,4'-DDT	<0.099		0.099	ug/L		04/03/25 14:31	04/04/25 16:37	1
2,4-Dinitrotoluene	<0.099		0.099	ug/L		04/03/25 14:31	04/04/25 16:37	1
2,6-Dinitrotoluene	<0.099		0.099	ug/L		04/03/25 14:31	04/04/25 16:37	1
2-Methylnaphthalene	<0.099		0.099	ug/L		04/03/25 14:31	04/04/25 16:37	1
4,4'-DDD	<0.099		0.099	ug/L		04/03/25 14:31	04/04/25 16:37	1
4,4'-DDE	<0.099		0.099	ug/L		04/03/25 14:31	04/04/25 16:37	1
4,4'-DDT	<0.099		0.099	ug/L		04/03/25 14:31	04/04/25 16:37	1
Acenaphthene	<0.099		0.099	ug/L		04/03/25 14:31	04/04/25 16:37	1
Acenaphthylene	<0.099		0.099	ug/L		04/03/25 14:31	04/04/25 16:37	1
Acetochlor	<0.099		0.099	ug/L		04/03/25 14:31	04/04/25 16:37	1
Alachlor	<0.049		0.049	ug/L		04/03/25 14:31	04/04/25 16:37	1
alpha-BHC	<0.099		0.099	ug/L		04/03/25 14:31	04/04/25 16:37	1
alpha-Chlordane	<0.049		0.049	ug/L		04/03/25 14:31	04/04/25 16:37	1
Anthracene	<0.020		0.020	ug/L		04/03/25 14:31	04/04/25 16:37	1
Atrazine	<0.049		0.049	ug/L		04/03/25 14:31	04/04/25 16:37	1
Benz(a)anthracene	<0.049		0.049	ug/L		04/03/25 14:31	04/04/25 16:37	1
Benzo[a]pyrene	<0.020		0.020	ug/L		04/03/25 14:31	04/04/25 16:37	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		04/03/25 14:31	04/04/25 16:37	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		04/03/25 14:31	04/04/25 16:37	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		04/03/25 14:31	04/04/25 16:37	1
beta-BHC	<0.099		0.099	ug/L		04/03/25 14:31	04/04/25 16:37	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		04/03/25 14:31	04/04/25 16:37	1
Bromacil	<0.099		0.099	ug/L		04/03/25 14:31	04/04/25 16:37	1
Butachlor	<0.049		0.049	ug/L		04/03/25 14:31	04/04/25 16:37	1
Butylbenzylphthalate	<0.49		0.49	ug/L		04/03/25 14:31	04/04/25 16:37	1
Chlorobenzilate	<0.099		0.099	ug/L		04/03/25 14:31	04/04/25 16:37	1
Chloroneb	<0.099		0.099	ug/L		04/03/25 14:31	04/04/25 16:37	1
Chlorothalonil (Draconil, Bravo)	<0.099		0.099	ug/L		04/03/25 14:31	04/04/25 16:37	1
Chlorpyrifos	<0.049		0.049	ug/L		04/03/25 14:31	04/04/25 16:37	1
Chrysene	<0.020		0.020	ug/L		04/03/25 14:31	04/04/25 16:37	1
delta-BHC	<0.099		0.099	ug/L		04/03/25 14:31	04/04/25 16:37	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		04/03/25 14:31	04/04/25 16:37	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		04/03/25 14:31	04/04/25 16:37	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		04/03/25 14:31	04/04/25 16:37	1
Dieldrin	0.029		0.0099	ug/L		04/03/25 14:31	04/04/25 16:37	1
Diethylphthalate	<0.49		0.49	ug/L		04/03/25 14:31	04/04/25 16:37	1
Dimethylphthalate	<0.49		0.49	ug/L		04/03/25 14:31	04/04/25 16:37	1
Di-n-butyl phthalate	<0.99		0.99	ug/L		04/03/25 14:31	04/04/25 16:37	1
Di-n-octyl phthalate	<0.099		0.099	ug/L		04/03/25 14:31	04/04/25 16:37	1
Endosulfan I (Alpha)	<0.099		0.099	ug/L		04/03/25 14:31	04/04/25 16:37	1
Endosulfan II (Beta)	<0.099		0.099	ug/L		04/03/25 14:31	04/04/25 16:37	1
Endosulfan sulfate	<0.099		0.099	ug/L		04/03/25 14:31	04/04/25 16:37	1
Endrin	<0.0099		0.0099	ug/L		04/03/25 14:31	04/04/25 16:37	1
Endrin aldehyde	<0.099		0.099	ug/L		04/03/25 14:31	04/04/25 16:37	1
EPTC	<0.099		0.099	ug/L		04/03/25 14:31	04/04/25 16:37	1
Fluoranthene	<0.099		0.099	ug/L		04/03/25 14:31	04/04/25 16:37	1

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Client Sample Results

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

Job ID: 380-143376-1
SDG: Weekly

Client Sample ID: Ka'amilo Wells

Lab Sample ID: 380-143376-1

Date Collected: 03/31/25 11:53

Matrix: Water

Date Received: 04/02/25 09:20

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	<0.049		0.049	ug/L		04/03/25 14:31	04/04/25 16:37	1
gamma-Chlordane	<0.049		0.049	ug/L		04/03/25 14:31	04/04/25 16:37	1
Heptachlor	<0.0099		0.0099	ug/L		04/03/25 14:31	04/04/25 16:37	1
Heptachlor epoxide (isomer B)	<0.0099		0.0099	ug/L		04/03/25 14:31	04/04/25 16:37	1
Hexachlorobenzene	<0.049		0.049	ug/L		04/03/25 14:31	04/04/25 16:37	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		04/03/25 14:31	04/04/25 16:37	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		04/03/25 14:31	04/04/25 16:37	1
Isophorone	<0.099		0.099	ug/L		04/03/25 14:31	04/04/25 16:37	1
Lindane	<0.0099		0.0099	ug/L		04/03/25 14:31	04/04/25 16:37	1
Malathion	<0.099		0.099	ug/L		04/03/25 14:31	04/04/25 16:37	1
Methoxychlor	<0.049		0.049	ug/L		04/03/25 14:31	04/04/25 16:37	1
Metolachlor	<0.049		0.049	ug/L		04/03/25 14:31	04/04/25 16:37	1
Molinate	<0.099		0.099	ug/L		04/03/25 14:31	04/04/25 16:37	1
Naphthalene	<0.099		0.099	ug/L		04/03/25 14:31	04/04/25 16:37	1
Parathion	<0.099		0.099	ug/L		04/03/25 14:31	04/04/25 16:37	1
Pendimethalin (Penoxaline)	<0.099		0.099	ug/L		04/03/25 14:31	04/04/25 16:37	1
Phenanthrene	<0.040		0.040	ug/L		04/03/25 14:31	04/04/25 16:37	1
Propachlor	<0.049		0.049	ug/L		04/03/25 14:31	04/04/25 16:37	1
Pyrene	<0.049		0.049	ug/L		04/03/25 14:31	04/04/25 16:37	1
Simazine	<0.049		0.049	ug/L		04/03/25 14:31	04/04/25 16:37	1
Terbacil	<0.099		0.099	ug/L		04/03/25 14:31	04/04/25 16:37	1
Terbutylazine	<0.099		0.099	ug/L		04/03/25 14:31	04/04/25 16:37	1
Thiobencarb	<0.099		0.099	ug/L		04/03/25 14:31	04/04/25 16:37	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		04/03/25 14:31	04/04/25 16:37	1
trans-Nonachlor	<0.049		0.049	ug/L		04/03/25 14:31	04/04/25 16:37	1
Trifluralin	<0.099		0.099	ug/L		04/03/25 14:31	04/04/25 16:37	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	04/03/25 14:31	04/04/25 16:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	97		70 - 130	04/03/25 14:31	04/04/25 16:37	1
Perylene-d12	85		70 - 130	04/03/25 14:31	04/04/25 16:37	1
Triphenylphosphate	89		70 - 130	04/03/25 14:31	04/04/25 16:37	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.19		0.19	ug/L		04/04/25 09:08	04/13/25 21:27	1
2-Methylnaphthalene	<0.19		0.19	ug/L		04/04/25 09:08	04/13/25 21:27	1
Acenaphthene	<0.19		0.19	ug/L		04/04/25 09:08	04/13/25 21:27	1
Acenaphthylene	<0.19		0.19	ug/L		04/04/25 09:08	04/13/25 21:27	1
Anthracene	<0.19		0.19	ug/L		04/04/25 09:08	04/13/25 21:27	1
Benzo[a]anthracene	<0.19		0.19	ug/L		04/04/25 09:08	04/13/25 21:27	1
Benzo[a]pyrene	<0.19		0.19	ug/L		04/04/25 09:08	04/13/25 21:27	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		04/04/25 09:08	04/13/25 21:27	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		04/04/25 09:08	04/13/25 21:27	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		04/04/25 09:08	04/13/25 21:27	1
Chrysene	<0.19		0.19	ug/L		04/04/25 09:08	04/13/25 21:27	1
Dibenz(a,h)anthracene	<0.19		0.19	ug/L		04/04/25 09:08	04/13/25 21:27	1
Fluoranthene	<0.19	+	0.19	ug/L		04/04/25 09:08	04/13/25 21:27	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-143376-1
SDG: Weekly

Client Sample ID: Ka'amilo Wells

Lab Sample ID: 380-143376-1

Date Collected: 03/31/25 11:53

Matrix: Water

Date Received: 04/02/25 09:20

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		04/04/25 09:08	04/13/25 21:27	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		04/04/25 09:08	04/13/25 21:27	1
Naphthalene	<0.19		0.19	ug/L		04/04/25 09:08	04/13/25 21:27	1
Phenanthrene	<0.19		0.19	ug/L		04/04/25 09:08	04/13/25 21:27	1
Pyrene	<0.19		0.19	ug/L		04/04/25 09:08	04/13/25 21:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	115		28 - 127	04/04/25 09:08	04/13/25 21:27	1
2-Fluorobiphenyl (Surr)	99		31 - 120	04/04/25 09:08	04/13/25 21:27	1
2-Fluorophenol (Surr)	60		17 - 120	04/04/25 09:08	04/13/25 21:27	1
Nitrobenzene-d5 (Surr)	100		27 - 120	04/04/25 09:08	04/13/25 21:27	1
Phenol-d6 (Surr)	38		10 - 120	04/04/25 09:08	04/13/25 21:27	1
p-Terphenyl-d14 (Surr)	98		45 - 120	04/04/25 09:08	04/13/25 21:27	1

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

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	04/04/25 09:08	04/15/25 16:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	77		33 - 139	04/04/25 09:08	04/15/25 16:12	1
2-Fluorobiphenyl (Surr)	113		33 - 126	04/04/25 09:08	04/15/25 16:12	1
2-Fluorophenol (Surr)	61		12 - 120	04/04/25 09:08	04/15/25 16:12	1
Nitrobenzene-d5 (Surr)	111		36 - 120	04/04/25 09:08	04/15/25 16:12	1
Phenol-d6 (Surr)	32		10 - 120	04/04/25 09:08	04/15/25 16:12	1
p-Terphenyl-d14 (Surr)	111		47 - 131	04/04/25 09:08	04/15/25 16:12	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	<10		10	ug/L			04/11/25 01:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		38 - 134		04/11/25 01:31	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<25		25	ug/L		04/06/25 17:06	04/14/25 19:05	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		04/06/25 17:06	04/14/25 19:05	1
C8-C18	<25		25	ug/L		04/06/25 17:06	04/14/25 19:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	98		60 - 130	04/06/25 17:06	04/14/25 19:05	1

Client Sample ID: TB: Ka'amilo Wells

Lab Sample ID: 380-143376-2

Date Collected: 03/31/25 11:53

Matrix: Water

Date Received: 04/02/25 09:20

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	<10		10	ug/L			04/10/25 21:18	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-143376-1
SDG: Weekly

Client Sample ID: TB: Ka'amilo Wells

Lab Sample ID: 380-143376-2

Date Collected: 03/31/25 11:53

Matrix: Water

Date Received: 04/02/25 09:20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		38 - 134		04/10/25 21:18	1

Client Sample ID: MOANALUA WELLS (331-223-TP202)

Lab Sample ID: 380-143376-3

Date Collected: 03/31/25 09:37

Matrix: Drinking Water

Date Received: 04/02/25 09:20

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.098		0.098	ug/L		04/03/25 14:31	04/04/25 16:58	1
2,4'-DDD	<0.098		0.098	ug/L		04/03/25 14:31	04/04/25 16:58	1
2,4'-DDE	<0.098		0.098	ug/L		04/03/25 14:31	04/04/25 16:58	1
2,4'-DDT	<0.098		0.098	ug/L		04/03/25 14:31	04/04/25 16:58	1
2,4-Dinitrotoluene	<0.098		0.098	ug/L		04/03/25 14:31	04/04/25 16:58	1
2,6-Dinitrotoluene	<0.098		0.098	ug/L		04/03/25 14:31	04/04/25 16:58	1
2-Methylnaphthalene	<0.098		0.098	ug/L		04/03/25 14:31	04/04/25 16:58	1
4,4'-DDD	<0.098		0.098	ug/L		04/03/25 14:31	04/04/25 16:58	1
4,4'-DDE	<0.098		0.098	ug/L		04/03/25 14:31	04/04/25 16:58	1
4,4'-DDT	<0.098		0.098	ug/L		04/03/25 14:31	04/04/25 16:58	1
Acenaphthene	<0.098		0.098	ug/L		04/03/25 14:31	04/04/25 16:58	1
Acenaphthylene	<0.098		0.098	ug/L		04/03/25 14:31	04/04/25 16:58	1
Acetochlor	<0.098		0.098	ug/L		04/03/25 14:31	04/04/25 16:58	1
Alachlor	<0.049		0.049	ug/L		04/03/25 14:31	04/04/25 16:58	1
alpha-BHC	<0.098		0.098	ug/L		04/03/25 14:31	04/04/25 16:58	1
alpha-Chlordane	<0.049		0.049	ug/L		04/03/25 14:31	04/04/25 16:58	1
Anthracene	<0.020		0.020	ug/L		04/03/25 14:31	04/04/25 16:58	1
Atrazine	<0.049		0.049	ug/L		04/03/25 14:31	04/04/25 16:58	1
Benz(a)anthracene	<0.049		0.049	ug/L		04/03/25 14:31	04/04/25 16:58	1
Benzo[a]pyrene	<0.020		0.020	ug/L		04/03/25 14:31	04/04/25 16:58	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		04/03/25 14:31	04/04/25 16:58	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		04/03/25 14:31	04/04/25 16:58	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		04/03/25 14:31	04/04/25 16:58	1
beta-BHC	<0.098		0.098	ug/L		04/03/25 14:31	04/04/25 16:58	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		04/03/25 14:31	04/04/25 16:58	1
Bromacil	<0.098		0.098	ug/L		04/03/25 14:31	04/04/25 16:58	1
Butachlor	<0.049		0.049	ug/L		04/03/25 14:31	04/04/25 16:58	1
Butylbenzylphthalate	<0.49		0.49	ug/L		04/03/25 14:31	04/04/25 16:58	1
Chlorobenzilate	<0.098		0.098	ug/L		04/03/25 14:31	04/04/25 16:58	1
Chloroneb	<0.098		0.098	ug/L		04/03/25 14:31	04/04/25 16:58	1
Chlorothalonil (Draconil, Bravo)	<0.098		0.098	ug/L		04/03/25 14:31	04/04/25 16:58	1
Chlorpyrifos	<0.049		0.049	ug/L		04/03/25 14:31	04/04/25 16:58	1
Chrysene	<0.020		0.020	ug/L		04/03/25 14:31	04/04/25 16:58	1
delta-BHC	<0.098		0.098	ug/L		04/03/25 14:31	04/04/25 16:58	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		04/03/25 14:31	04/04/25 16:58	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		04/03/25 14:31	04/04/25 16:58	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		04/03/25 14:31	04/04/25 16:58	1
Dieldrin	<0.0098		0.0098	ug/L		04/03/25 14:31	04/04/25 16:58	1
Diethylphthalate	<0.49		0.49	ug/L		04/03/25 14:31	04/04/25 16:58	1
Dimethylphthalate	<0.49		0.49	ug/L		04/03/25 14:31	04/04/25 16:58	1
Di-n-butyl phthalate	<0.98		0.98	ug/L		04/03/25 14:31	04/04/25 16:58	1
Di-n-octyl phthalate	<0.098		0.098	ug/L		04/03/25 14:31	04/04/25 16:58	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-143376-1
SDG: Weekly

Client Sample ID: MOANALUA WELLS (331-223-TP202)

Lab Sample ID: 380-143376-3

Date Collected: 03/31/25 09:37

Matrix: Drinking Water

Date Received: 04/02/25 09:20

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan I (Alpha)	<0.098		0.098	ug/L		04/03/25 14:31	04/04/25 16:58	1
Endosulfan II (Beta)	<0.098		0.098	ug/L		04/03/25 14:31	04/04/25 16:58	1
Endosulfan sulfate	<0.098		0.098	ug/L		04/03/25 14:31	04/04/25 16:58	1
Endrin	<0.0098		0.0098	ug/L		04/03/25 14:31	04/04/25 16:58	1
Endrin aldehyde	<0.098		0.098	ug/L		04/03/25 14:31	04/04/25 16:58	1
EPTC	<0.098		0.098	ug/L		04/03/25 14:31	04/04/25 16:58	1
Fluoranthene	<0.098		0.098	ug/L		04/03/25 14:31	04/04/25 16:58	1
Fluorene	<0.049		0.049	ug/L		04/03/25 14:31	04/04/25 16:58	1
gamma-Chlordane	<0.049		0.049	ug/L		04/03/25 14:31	04/04/25 16:58	1
Heptachlor	<0.0098		0.0098	ug/L		04/03/25 14:31	04/04/25 16:58	1
Heptachlor epoxide (isomer B)	<0.0098		0.0098	ug/L		04/03/25 14:31	04/04/25 16:58	1
Hexachlorobenzene	<0.049		0.049	ug/L		04/03/25 14:31	04/04/25 16:58	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		04/03/25 14:31	04/04/25 16:58	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		04/03/25 14:31	04/04/25 16:58	1
Isophorone	<0.098		0.098	ug/L		04/03/25 14:31	04/04/25 16:58	1
Lindane	<0.0098		0.0098	ug/L		04/03/25 14:31	04/04/25 16:58	1
Malathion	<0.098		0.098	ug/L		04/03/25 14:31	04/04/25 16:58	1
Methoxychlor	<0.049		0.049	ug/L		04/03/25 14:31	04/04/25 16:58	1
Metolachlor	<0.049		0.049	ug/L		04/03/25 14:31	04/04/25 16:58	1
Molinate	<0.098		0.098	ug/L		04/03/25 14:31	04/04/25 16:58	1
Naphthalene	<0.098		0.098	ug/L		04/03/25 14:31	04/04/25 16:58	1
Parathion	<0.098		0.098	ug/L		04/03/25 14:31	04/04/25 16:58	1
Pendimethalin (Penoxaline)	<0.098		0.098	ug/L		04/03/25 14:31	04/04/25 16:58	1
Phenanthrene	<0.039		0.039	ug/L		04/03/25 14:31	04/04/25 16:58	1
Propachlor	<0.049		0.049	ug/L		04/03/25 14:31	04/04/25 16:58	1
Pyrene	<0.049		0.049	ug/L		04/03/25 14:31	04/04/25 16:58	1
Simazine	<0.049		0.049	ug/L		04/03/25 14:31	04/04/25 16:58	1
Terbacil	<0.098		0.098	ug/L		04/03/25 14:31	04/04/25 16:58	1
Terbutylazine	<0.098		0.098	ug/L		04/03/25 14:31	04/04/25 16:58	1
Thiobencarb	<0.098		0.098	ug/L		04/03/25 14:31	04/04/25 16:58	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		04/03/25 14:31	04/04/25 16:58	1
trans-Nonachlor	<0.049		0.049	ug/L		04/03/25 14:31	04/04/25 16:58	1
Trifluralin	<0.098		0.098	ug/L		04/03/25 14:31	04/04/25 16:58	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	04/03/25 14:31	04/04/25 16:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	97		70 - 130	04/03/25 14:31	04/04/25 16:58	1
Perylene-d12	87		70 - 130	04/03/25 14:31	04/04/25 16:58	1
Triphenylphosphate	90		70 - 130	04/03/25 14:31	04/04/25 16:58	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.19		0.19	ug/L		04/04/25 09:08	04/13/25 21:05	1
2-Methylnaphthalene	<0.19		0.19	ug/L		04/04/25 09:08	04/13/25 21:05	1
Acenaphthene	<0.19		0.19	ug/L		04/04/25 09:08	04/13/25 21:05	1
Acenaphthylene	<0.19		0.19	ug/L		04/04/25 09:08	04/13/25 21:05	1
Anthracene	<0.19		0.19	ug/L		04/04/25 09:08	04/13/25 21:05	1
Benzo[a]anthracene	<0.19		0.19	ug/L		04/04/25 09:08	04/13/25 21:05	1

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Client Sample Results

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

Job ID: 380-143376-1
SDG: Weekly

Client Sample ID: MOANALUA WELLS (331-223-TP202)

Lab Sample ID: 380-143376-3

Date Collected: 03/31/25 09:37

Matrix: Drinking Water

Date Received: 04/02/25 09:20

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.19		0.19	ug/L		04/04/25 09:08	04/13/25 21:05	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		04/04/25 09:08	04/13/25 21:05	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		04/04/25 09:08	04/13/25 21:05	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		04/04/25 09:08	04/13/25 21:05	1
Chrysene	<0.19		0.19	ug/L		04/04/25 09:08	04/13/25 21:05	1
Dibenz(a,h)anthracene	<0.19		0.19	ug/L		04/04/25 09:08	04/13/25 21:05	1
Fluoranthene	<0.19	*+	0.19	ug/L		04/04/25 09:08	04/13/25 21:05	1
Fluorene	<0.19		0.19	ug/L		04/04/25 09:08	04/13/25 21:05	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		04/04/25 09:08	04/13/25 21:05	1
Naphthalene	<0.19		0.19	ug/L		04/04/25 09:08	04/13/25 21:05	1
Phenanthrene	<0.19		0.19	ug/L		04/04/25 09:08	04/13/25 21:05	1
Pyrene	<0.19		0.19	ug/L		04/04/25 09:08	04/13/25 21:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	113		28 - 127	04/04/25 09:08	04/13/25 21:05	1
2-Fluorobiphenyl (Surr)	101		31 - 120	04/04/25 09:08	04/13/25 21:05	1
2-Fluorophenol (Surr)	62		17 - 120	04/04/25 09:08	04/13/25 21:05	1
Nitrobenzene-d5 (Surr)	102		27 - 120	04/04/25 09:08	04/13/25 21:05	1
Phenol-d6 (Surr)	39		10 - 120	04/04/25 09:08	04/13/25 21:05	1
p-Terphenyl-d14 (Surr)	99		45 - 120	04/04/25 09:08	04/13/25 21:05	1

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

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	04/04/25 09:08	04/15/25 16:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	73		33 - 139	04/04/25 09:08	04/15/25 16:35	1
2-Fluorobiphenyl (Surr)	104		33 - 126	04/04/25 09:08	04/15/25 16:35	1
2-Fluorophenol (Surr)	55		12 - 120	04/04/25 09:08	04/15/25 16:35	1
Nitrobenzene-d5 (Surr)	109		36 - 120	04/04/25 09:08	04/15/25 16:35	1
Phenol-d6 (Surr)	31		10 - 120	04/04/25 09:08	04/15/25 16:35	1
p-Terphenyl-d14 (Surr)	104		47 - 131	04/04/25 09:08	04/15/25 16:35	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	<10		10	ug/L			04/10/25 17:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		38 - 134		04/10/25 17:55	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<26		26	ug/L		04/06/25 17:06	04/14/25 17:16	1
Motor Oil Range Organics [C24-C36]	<26		26	ug/L		04/06/25 17:06	04/14/25 17:16	1
C8-C18	<26		26	ug/L		04/06/25 17:06	04/14/25 17:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	100		60 - 130	04/06/25 17:06	04/14/25 17:16	1

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Client Sample Results

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

Job ID: 380-143376-1
SDG: Weekly

Client Sample ID: TB:MOANALUA WELLS (331-223-TP202) Lab Sample ID: 380-143376-4
Date Collected: 03/31/25 09:37 Matrix: Water
Date Received: 04/02/25 09:20

Method: SW846 8015B GRO LL - Gasoline Range Organics - (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
GRO (C6-C10)	<10		10	ug/L			04/10/25 21:43	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	81		38 - 134				04/10/25 21:43	1	

Action Limit Summary

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

Job ID: 380-143376-1
SDG: Weekly

Client Sample ID: Ka'amilo Wells

Lab Sample ID: 380-143376-1

Compliance Check

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

Analyte	Result	Qualifier	Unit	EPAMCL	RL	Method	Prep Type
				Limit			
Alachlor	<0.049		ug/L	2	0.049	525.2	Total/NA
Atrazine	<0.049		ug/L	3	0.049	525.2	Total/NA
Benzo[a]pyrene	<0.020		ug/L	0.2	0.020	525.2	Total/NA
Bis(2-ethylhexyl) phthalate	<0.59		ug/L	6	0.59	525.2	Total/NA
Di(2-ethylhexyl)adipate	<0.59		ug/L	400	0.59	525.2	Total/NA
Endrin	<0.0099		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)	<0.0099		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: MOANALUA WELLS (331-223-TP202)

Lab Sample ID: 380-143376-3

Compliance Check

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

Analyte	Result	Qualifier	Unit	EPAMCL	RL	Method	Prep Type
				Limit			
Alachlor	<0.049		ug/L	2	0.049	525.2	Total/NA
Atrazine	<0.049		ug/L	3	0.049	525.2	Total/NA
Benzo[a]pyrene	<0.020		ug/L	0.2	0.020	525.2	Total/NA
Bis(2-ethylhexyl) phthalate	<0.59		ug/L	6	0.59	525.2	Total/NA
Di(2-ethylhexyl)adipate	<0.59		ug/L	400	0.59	525.2	Total/NA
Endrin	<0.0098		ug/L	2	0.0098	525.2	Total/NA
Heptachlor	<0.0098		ug/L	0.4	0.0098	525.2	Total/NA
Heptachlor epoxide (isomer B)	<0.0098		ug/L	0.2	0.0098	525.2	Total/NA
Hexachlorobenzene	<0.049		ug/L	1	0.049	525.2	Total/NA
Hexachlorocyclopentadiene	<0.049		ug/L	50	0.049	525.2	Total/NA
Lindane	<0.0098		ug/L	0.2	0.0098	525.2	Total/NA
Methoxychlor	<0.049		ug/L	40	0.049	525.2	Total/NA
Simazine	<0.049		ug/L	4	0.049	525.2	Total/NA
Benzo[a]pyrene	<0.19		ug/L	0.2	0.19	625.1 SIM	Total/NA

Surrogate Summary

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

Job ID: 380-143376-1
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)
380-143376-3	MOANALUA WELLS (331-223-T	97	87	90

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)
380-143251-O-1-A MS	Matrix Spike	98	87	94
380-143301-C-1-B DU	Duplicate	100	80	92
380-143376-1	Ka'amilo Wells	97	85	89
LCS 380-145277/23-A	Lab Control Sample	96	88	94
MB 380-145277/21-A	Method Blank	97	84	92
MRL 380-145277/22-A	Lab Control Sample	95	82	95

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)
380-143376-3	MOANALUA WELLS (331-223-T	73	104	55	109	31	104

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)
380-143376-1	Ka'amilo Wells	77	113	61	111	32	111
MB 570-553677/1-A	Method Blank	85	113	68	120	39	115

Surrogate Legend

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

FBP = 2-Fluorobiphenyl (Surr)

Eurofins Eaton Analytical Pomona

Surrogate Summary

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

Job ID: 380-143376-1
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)
380-143376-3	MOANALUA WELLS (331-223-T	113	101	62	102	39	99
380-143376-3 MS	MOANALUA WELLS (331-223-TP202)	112	96	64	81	43	105
380-143376-3 MSD	MOANALUA WELLS (331-223-TP202)	113	101	69	84	45	107

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)
380-143376-1	Ka'amilo Wells	115	99	60	100	38	98
LCS 570-553677/2-A	Lab Control Sample	103	98	70	81	48	104
LCSD 570-553677/3-A	Lab Control Sample Dup	104	104	75	89	53	109
MB 570-553677/1-A	Method Blank	108	94	65	100	43	105

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)					
380-143376-3	MOANALUA WELLS (331-223-T	79					
380-143376-3 MS	MOANALUA WELLS (331-223-TP202)	95					
380-143376-3 MSD	MOANALUA WELLS (331-223-TP202)	92					

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

Surrogate Summary

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

Job ID: 380-143376-1
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)
380-143376-1	Ka'amilo Wells	79
380-143376-2	TB: Ka'amilo Wells	85
380-143376-4	TB: MOANALUA WELLS (331-223-TP202)	81
LCS 570-556348/4	Lab Control Sample	95
LCSD 570-556348/5	Lab Control Sample Dup	93
MB 570 556348/6	Method Blank	80
MRL 570-556348/3	Lab Control Sample	84

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)
380-143376-3	MOANALUA WELLS (331-223-T	100
380-143376-3 MS	MOANALUA WELLS (331-223-TP202)	104
380-143376-3 MSD	MOANALUA WELLS (331-223-TP202)	94

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)
380-143376-1	Ka'amilo Wells	98
LCS 570-554296/2-A	Lab Control Sample	103
LCSD 570-554296/3-A	Lab Control Sample Dup	106
MB 570-554296/1-A	Method Blank	96
MRL 570-554296/4-A	Lab Control Sample	106

Surrogate Legend

OTCSN = n-Octacosane (Surr)

QC Sample Results

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

Job ID: 380-143376-1
SDG: Weekly

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

Lab Sample ID: MB 380-145277/21-A

Matrix: Water

Analysis Batch: 145443

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 145277

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.099		0.099	ug/L		04/03/25 14:31	04/04/25 14:12	1
2,4'-DDD	<0.099		0.099	ug/L		04/03/25 14:31	04/04/25 14:12	1
2,4'-DDE	<0.099		0.099	ug/L		04/03/25 14:31	04/04/25 14:12	1
2,4'-DDT	<0.099		0.099	ug/L		04/03/25 14:31	04/04/25 14:12	1
2,4-Dinitrotoluene	<0.099		0.099	ug/L		04/03/25 14:31	04/04/25 14:12	1
2,6-Dinitrotoluene	<0.099		0.099	ug/L		04/03/25 14:31	04/04/25 14:12	1
2-Methylnaphthalene	<0.099		0.099	ug/L		04/03/25 14:31	04/04/25 14:12	1
4,4'-DDD	<0.099		0.099	ug/L		04/03/25 14:31	04/04/25 14:12	1
4,4'-DDE	<0.099		0.099	ug/L		04/03/25 14:31	04/04/25 14:12	1
4,4'-DDT	<0.099		0.099	ug/L		04/03/25 14:31	04/04/25 14:12	1
Acenaphthene	<0.099		0.099	ug/L		04/03/25 14:31	04/04/25 14:12	1
Acenaphthylene	<0.099		0.099	ug/L		04/03/25 14:31	04/04/25 14:12	1
Acetochlor	<0.099		0.099	ug/L		04/03/25 14:31	04/04/25 14:12	1
Alachlor	<0.049		0.049	ug/L		04/03/25 14:31	04/04/25 14:12	1
alpha-BHC	<0.099		0.099	ug/L		04/03/25 14:31	04/04/25 14:12	1
alpha-Chlordane	<0.049		0.049	ug/L		04/03/25 14:31	04/04/25 14:12	1
Anthracene	<0.020		0.020	ug/L		04/03/25 14:31	04/04/25 14:12	1
Atrazine	<0.049		0.049	ug/L		04/03/25 14:31	04/04/25 14:12	1
Benz(a)anthracene	<0.049		0.049	ug/L		04/03/25 14:31	04/04/25 14:12	1
Benzo[a]pyrene	<0.020		0.020	ug/L		04/03/25 14:31	04/04/25 14:12	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		04/03/25 14:31	04/04/25 14:12	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		04/03/25 14:31	04/04/25 14:12	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		04/03/25 14:31	04/04/25 14:12	1
beta-BHC	<0.099		0.099	ug/L		04/03/25 14:31	04/04/25 14:12	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		04/03/25 14:31	04/04/25 14:12	1
Bromacil	<0.099		0.099	ug/L		04/03/25 14:31	04/04/25 14:12	1
Butachlor	<0.049		0.049	ug/L		04/03/25 14:31	04/04/25 14:12	1
Butylbenzylphthalate	<0.49		0.49	ug/L		04/03/25 14:31	04/04/25 14:12	1
Chlorobenzilate	<0.099		0.099	ug/L		04/03/25 14:31	04/04/25 14:12	1
Chloroneb	<0.099		0.099	ug/L		04/03/25 14:31	04/04/25 14:12	1
Chlorothalonil (Draconil, Bravo)	<0.099		0.099	ug/L		04/03/25 14:31	04/04/25 14:12	1
Chlorpyrifos	<0.049		0.049	ug/L		04/03/25 14:31	04/04/25 14:12	1
Chrysene	<0.020		0.020	ug/L		04/03/25 14:31	04/04/25 14:12	1
delta-BHC	<0.099		0.099	ug/L		04/03/25 14:31	04/04/25 14:12	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		04/03/25 14:31	04/04/25 14:12	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		04/03/25 14:31	04/04/25 14:12	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		04/03/25 14:31	04/04/25 14:12	1
Dieldrin	<0.0099		0.0099	ug/L		04/03/25 14:31	04/04/25 14:12	1
Diethylphthalate	<0.49		0.49	ug/L		04/03/25 14:31	04/04/25 14:12	1
Dimethylphthalate	<0.49		0.49	ug/L		04/03/25 14:31	04/04/25 14:12	1
Di-n-butyl phthalate	<0.99		0.99	ug/L		04/03/25 14:31	04/04/25 14:12	1
Di-n-octyl phthalate	<0.099		0.099	ug/L		04/03/25 14:31	04/04/25 14:12	1
Endosulfan I (Alpha)	<0.099		0.099	ug/L		04/03/25 14:31	04/04/25 14:12	1
Endosulfan II (Beta)	<0.099		0.099	ug/L		04/03/25 14:31	04/04/25 14:12	1
Endosulfan sulfate	<0.099		0.099	ug/L		04/03/25 14:31	04/04/25 14:12	1
Endrin	<0.0099		0.0099	ug/L		04/03/25 14:31	04/04/25 14:12	1
Endrin aldehyde	<0.099		0.099	ug/L		04/03/25 14:31	04/04/25 14:12	1
EPTC	<0.099		0.099	ug/L		04/03/25 14:31	04/04/25 14:12	1

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QC Sample Results

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

Job ID: 380-143376-1
SDG: Weekly

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

Lab Sample ID: MB 380-145277/21-A

Matrix: Water

Analysis Batch: 145443

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 145277

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.099		0.099	ug/L		04/03/25 14:31	04/04/25 14:12	1
Fluorene	<0.049		0.049	ug/L		04/03/25 14:31	04/04/25 14:12	1
gamma-Chlordane	<0.049		0.049	ug/L		04/03/25 14:31	04/04/25 14:12	1
Heptachlor	<0.0099		0.0099	ug/L		04/03/25 14:31	04/04/25 14:12	1
Heptachlor epoxide (isomer B)	<0.0099		0.0099	ug/L		04/03/25 14:31	04/04/25 14:12	1
Hexachlorobenzene	<0.049		0.049	ug/L		04/03/25 14:31	04/04/25 14:12	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		04/03/25 14:31	04/04/25 14:12	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		04/03/25 14:31	04/04/25 14:12	1
Isophorone	<0.099		0.099	ug/L		04/03/25 14:31	04/04/25 14:12	1
Lindane	<0.0099		0.0099	ug/L		04/03/25 14:31	04/04/25 14:12	1
Malathion	<0.099		0.099	ug/L		04/03/25 14:31	04/04/25 14:12	1
Methoxychlor	<0.049		0.049	ug/L		04/03/25 14:31	04/04/25 14:12	1
Metolachlor	<0.049		0.049	ug/L		04/03/25 14:31	04/04/25 14:12	1
Molinate	<0.099		0.099	ug/L		04/03/25 14:31	04/04/25 14:12	1
Naphthalene	<0.099		0.099	ug/L		04/03/25 14:31	04/04/25 14:12	1
Parathion	<0.099		0.099	ug/L		04/03/25 14:31	04/04/25 14:12	1
Pendimethalin (Penoxaline)	<0.099		0.099	ug/L		04/03/25 14:31	04/04/25 14:12	1
Phenanthrene	<0.039		0.039	ug/L		04/03/25 14:31	04/04/25 14:12	1
Propachlor	<0.049		0.049	ug/L		04/03/25 14:31	04/04/25 14:12	1
Pyrene	<0.049		0.049	ug/L		04/03/25 14:31	04/04/25 14:12	1
Simazine	<0.049		0.049	ug/L		04/03/25 14:31	04/04/25 14:12	1
Terbacil	<0.099		0.099	ug/L		04/03/25 14:31	04/04/25 14:12	1
Terbutylazine	<0.099		0.099	ug/L		04/03/25 14:31	04/04/25 14:12	1
Thiobencarb	<0.099		0.099	ug/L		04/03/25 14:31	04/04/25 14:12	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		04/03/25 14:31	04/04/25 14:12	1
trans-Nonachlor	<0.049		0.049	ug/L		04/03/25 14:31	04/04/25 14:12	1
Trifluralin	<0.099		0.099	ug/L		04/03/25 14:31	04/04/25 14:12	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	04/03/25 14:31	04/04/25 14:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	97		70 - 130	04/03/25 14:31	04/04/25 14:12	1
Perylene-d12	84		70 - 130	04/03/25 14:31	04/04/25 14:12	1
Triphenylphosphate	92		70 - 130	04/03/25 14:31	04/04/25 14:12	1

Lab Sample ID: LCS 380-145277/23-A

Matrix: Water

Analysis Batch: 145443

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 145277

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	1.97	1.89		ug/L		96	70 - 130
2,4'-DDD	1.97	2.08		ug/L		106	70 - 130
2,4'-DDE	1.97	1.89		ug/L		96	70 - 130
2,4'-DDT	1.97	2.03		ug/L		103	70 - 130
2,4-Dinitrotoluene	1.97	1.87		ug/L		95	70 - 130
2,6-Dinitrotoluene	1.97	1.77		ug/L		90	70 - 130
2-Methylnaphthalene	1.97	1.90		ug/L		97	70 - 130

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QC Sample Results

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

Job ID: 380-143376-1
SDG: Weekly

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

Lab Sample ID: LCS 380-145277/23-A

Matrix: Water

Analysis Batch: 145443

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 145277

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	1.97	2.14		ug/L		109	70 - 130
4,4'-DDE	1.97	2.03		ug/L		103	70 - 130
4,4'-DDT	1.97	1.97		ug/L		100	70 - 130
Acenaphthene	1.97	2.00		ug/L		101	70 - 130
Acenaphthylene	1.97	1.85		ug/L		94	70 - 130
Acetochlor	1.97	2.00		ug/L		102	70 - 130
Alachlor	1.97	1.93		ug/L		98	70 - 130
alpha-BHC	1.97	1.98		ug/L		101	70 - 130
alpha-Chlordane	1.97	1.77		ug/L		90	70 - 130
Anthracene	1.97	1.91		ug/L		97	70 - 130
Atrazine	1.97	2.06		ug/L		105	70 - 130
Benz(a)anthracene	1.97	1.94		ug/L		99	70 - 130
Benzo[a]pyrene	1.97	1.90		ug/L		97	70 - 130
Benzo[b]fluoranthene	1.97	2.18		ug/L		111	70 - 130
Benzo[g,h,i]perylene	1.97	2.01		ug/L		102	70 - 130
Benzo[k]fluoranthene	1.97	2.01		ug/L		102	70 - 130
beta-BHC	1.97	2.05		ug/L		104	70 - 130
Bis(2-ethylhexyl) phthalate	1.97	2.30		ug/L		117	70 - 130
Bromacil	1.97	1.94		ug/L		99	70 - 130
Butachlor	1.97	2.20		ug/L		112	70 - 130
Butylbenzylphthalate	1.97	2.14		ug/L		109	70 - 130
Chlorobenzilate	1.97	2.06		ug/L		105	70 - 130
Chloroneb	1.97	1.85		ug/L		94	70 - 130
Chlorothalonil (Draconil, Bravo)	1.97	2.04		ug/L		103	70 - 130
Chlorpyrifos	1.97	2.11		ug/L		107	70 - 130
Chrysene	1.97	2.02		ug/L		103	70 - 130
delta-BHC	1.97	2.03		ug/L		103	70 - 130
Di(2-ethylhexyl)adipate	1.97	2.25		ug/L		114	70 - 130
Dibenz(a,h)anthracene	1.97	1.93		ug/L		98	70 - 130
Diclorvos (DDVP)	1.97	2.11		ug/L		107	70 - 130
Dieldrin	1.97	1.85		ug/L		94	70 - 130
Diethylphthalate	1.97	2.04		ug/L		104	70 - 130
Dimethylphthalate	1.97	2.00		ug/L		102	70 - 130
Di-n-butyl phthalate	3.93	4.15		ug/L		105	70 - 130
Di-n-octyl phthalate	1.97	2.24		ug/L		114	70 - 130
Endosulfan I (Alpha)	1.97	1.87		ug/L		95	70 - 130
Endosulfan II (Beta)	1.97	1.99		ug/L		101	70 - 130
Endosulfan sulfate	1.97	1.97		ug/L		100	70 - 130
Endrin	1.97	2.13		ug/L		108	70 - 130
Endrin aldehyde	1.97	1.84		ug/L		94	60 - 130
EPTC	1.97	2.05		ug/L		104	70 - 130
Fluoranthene	1.97	2.07		ug/L		105	70 - 130
Fluorene	1.97	1.99		ug/L		101	70 - 130
gamma-Chlordane	1.97	1.67		ug/L		85	70 - 130
Heptachlor	1.97	2.34		ug/L		119	70 - 130
Heptachlor epoxide (isomer B)	1.97	2.00		ug/L		102	70 - 130
Hexachlorobenzene	1.97	1.73		ug/L		88	70 - 130
Hexachlorocyclopentadiene	1.97	1.76		ug/L		89	70 - 130
Indeno[1,2,3-cd]pyrene	1.97	1.94		ug/L		98	70 - 130

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QC Sample Results

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

Job ID: 380-143376-1
SDG: Weekly

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

Lab Sample ID: LCS 380-145277/23-A

Matrix: Water

Analysis Batch: 145443

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 145277

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Isophorone	1.97	2.16		ug/L		110	70 - 130
Lindane	1.97	2.01		ug/L		102	70 - 130
Malathion	1.97	2.04		ug/L		104	70 - 130
Methoxychlor	1.97	2.09		ug/L		106	70 - 130
Metolachlor	1.97	2.25		ug/L		114	70 - 130
Molinate	1.97	2.09		ug/L		106	70 - 130
Naphthalene	1.97	2.16		ug/L		110	70 - 130
Parathion	1.97	2.06		ug/L		105	70 - 130
Pendimethalin (Penoxaline)	1.97	1.74		ug/L		88	70 - 130
Phenanthrene	1.97	2.01		ug/L		102	70 - 130
Propachlor	1.97	2.14		ug/L		109	70 - 130
Pyrene	1.97	2.10		ug/L		107	70 - 130
Simazine	1.97	2.16		ug/L		110	70 - 130
Terbacil	1.97	2.36		ug/L		120	70 - 130
Terbutylazine	1.97	2.07		ug/L		105	70 - 130
Thiobencarb	1.97	2.33		ug/L		119	70 - 130
trans-Nonachlor	1.97	1.72		ug/L		88	70 - 130
Trifluralin	1.97	1.60		ug/L		81	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Nitro-m-xylene	96		70 - 130
Perylene-d12	88		70 - 130
Triphenylphosphate	94		70 - 130

Lab Sample ID: MRL 380-145277/22-A

Matrix: Water

Analysis Batch: 145443

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 145277

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	0.0982	0.120		ug/L		123	50 - 150
2,4'-DDD	0.0982	0.0938	J	ug/L		95	50 - 150
2,4'-DDE	0.0982	0.0969	J	ug/L		99	50 - 150
2,4'-DDT	0.0982	0.0944	J	ug/L		96	50 - 150
2,4-Dinitrotoluene	0.0982	0.0926	J	ug/L		94	50 - 150
2,6-Dinitrotoluene	0.0982	0.103		ug/L		105	50 - 150
2-Methylnaphthalene	0.0982	0.110		ug/L		112	50 - 150
4,4'-DDD	0.0982	0.106		ug/L		108	50 - 150
4,4'-DDE	0.0982	0.0969	J	ug/L		99	50 - 150
4,4'-DDT	0.0982	0.0986		ug/L		100	50 - 150
Acenaphthene	0.0982	0.0873	J	ug/L		89	50 - 150
Acenaphthylene	0.0982	0.0869	J	ug/L		88	50 - 150
Acetochlor	0.0982	0.113		ug/L		115	50 - 150
Alachlor	0.0491	0.0481	J	ug/L		98	50 - 150
alpha-BHC	0.0982	0.111		ug/L		113	50 - 150
alpha-Chlordane	0.0246	<0.028		ug/L		93	50 - 150
Anthracene	0.0196	0.0205		ug/L		104	50 - 150
Atrazine	0.0491	0.0524		ug/L		107	50 - 150
Benz(a)anthracene	0.0491	0.0500		ug/L		102	50 - 150

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-143376-1
SDG: Weekly

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

Lab Sample ID: MRL 380-145277/22-A

Matrix: Water

Analysis Batch: 145443

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 145277

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Benzo[a]pyrene	0.0196	0.0202		ug/L		103	50 - 150
Benzo[b]fluoranthene	0.0196	0.0194	J	ug/L		99	50 - 150
Benzo[g,h,i]perylene	0.0491	0.0406	J	ug/L		83	50 - 150
Benzo[k]fluoranthene	0.0196	0.0175	J	ug/L		89	50 - 150
beta-BHC	0.0982	0.121		ug/L		123	50 - 150
Bis(2-ethylhexyl) phthalate	0.589	0.619		ug/L		105	50 - 150
Bromacil	0.0982	0.112		ug/L		114	50 - 150
Butachlor	0.0491	0.0527		ug/L		107	50 - 150
Butylbenzylphthalate	0.491	0.532		ug/L		108	50 - 150
Chlorobenzilate	0.0982	0.0970	J	ug/L		99	50 - 150
Chloroneb	0.0982	0.113		ug/L		115	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0982	0.0864	J	ug/L		88	50 - 150
Chlorpyrifos	0.0491	0.0567		ug/L		115	50 - 150
Chrysene	0.0196	0.0218		ug/L		111	50 - 150
delta-BHC	0.0982	0.104		ug/L		106	50 - 150
Di(2-ethylhexyl)adipate	0.589	0.650		ug/L		110	50 - 150
Dibenz(a,h)anthracene	0.0491	0.0452	J	ug/L		92	50 - 150
Diclorvos (DDVP)	0.0491	0.0603		ug/L		123	50 - 150
Dieldrin	0.00982	0.0125		ug/L		127	50 - 150
Diethylphthalate	0.491	0.528		ug/L		107	50 - 150
Dimethylphthalate	0.491	0.520		ug/L		106	50 - 150
Di-n-butyl phthalate	0.491	0.527	J	ug/L		107	49 - 243
Di-n-octyl phthalate	0.0982	0.0880	J	ug/L		90	50 - 150
Endosulfan I (Alpha)	0.0982	0.0894	J	ug/L		91	50 - 150
Endosulfan II (Beta)	0.0982	0.115		ug/L		117	50 - 150
Endosulfan sulfate	0.0982	0.0962	J	ug/L		98	50 - 150
Endrin	0.00982	0.0133		ug/L		135	50 - 150
Endrin aldehyde	0.0982	0.0916	J	ug/L		93	50 - 150
EPTC	0.0982	0.0985		ug/L		100	50 - 150
Fluoranthene	0.0982	0.105		ug/L		106	50 - 150
Fluorene	0.0491	0.0551		ug/L		112	50 - 150
gamma-Chlordane	0.0246	<0.021		ug/L		84	50 - 150
Heptachlor	0.00982	0.0135		ug/L		138	50 - 150
Heptachlor epoxide (isomer B)	0.00982	0.0106		ug/L		107	50 - 150
Hexachlorobenzene	0.0491	0.0418	J	ug/L		85	50 - 150
Hexachlorocyclopentadiene	0.0491	0.0393	J	ug/L		80	50 - 150
Indeno[1,2,3-cd]pyrene	0.0491	0.0431	J	ug/L		88	50 - 150
Isophorone	0.0982	0.124		ug/L		126	50 - 150
Lindane	0.00982	0.00950	J	ug/L		97	50 - 150
Malathion	0.0982	0.110		ug/L		112	50 - 150
Methoxychlor	0.0491	0.0592		ug/L		121	50 - 150
Metolachlor	0.0491	0.0558		ug/L		114	50 - 150
Molinate	0.0982	0.107		ug/L		109	50 - 150
Naphthalene	0.0982	0.0974	J	ug/L		99	50 - 150
Parathion	0.0982	0.0890	J	ug/L		91	50 - 150
Pendimethalin (Penoxaline)	0.0982	0.0839	J	ug/L		85	50 - 150
Phenanthrene	0.0393	0.0382	J	ug/L		97	50 - 150
Propachlor	0.0491	0.0546		ug/L		111	50 - 150
Pyrene	0.0491	0.0527		ug/L		107	50 - 150

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-143376-1
SDG: Weekly

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

Lab Sample ID: MRL 380-145277/22-A

Matrix: Water

Analysis Batch: 145443

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 145277

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Simazine	0.0491	0.0546		ug/L		111	50 - 150
Terbacil	0.0982	0.110		ug/L		112	50 - 150
Terbutylazine	0.0982	0.110		ug/L		112	50 - 150
Thiobencarb	0.0982	0.113		ug/L		115	50 - 150
trans-Nonachlor	0.0246	<0.026		ug/L		83	50 - 150
Trifluralin	0.0982	0.0829	J	ug/L		84	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
2-Nitro-m-xylene	95		70 - 130
Perylene-d12	82		70 - 130
Triphenylphosphate	95		70 - 130

Lab Sample ID: 380-143251-O-1-A MS

Matrix: Water

Analysis Batch: 145443

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 145277

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.099		1.98	1.92		ug/L		96	70 - 130
2,4'-DDD	<0.099		1.98	2.07		ug/L		104	70 - 130
2,4'-DDE	<0.099		1.98	1.87		ug/L		94	70 - 130
2,4'-DDT	<0.099		1.98	2.05		ug/L		104	70 - 130
2,4-Dinitrotoluene	<0.099		1.98	2.08		ug/L		105	70 - 130
2,6-Dinitrotoluene	<0.099		1.98	1.95		ug/L		98	70 - 130
2-Methylnaphthalene	<0.099		1.98	1.93		ug/L		97	70 - 130
4,4'-DDD	<0.099		1.98	2.14		ug/L		108	70 - 130
4,4'-DDE	<0.099		1.98	1.99		ug/L		100	70 - 130
4,4'-DDT	<0.099		1.98	1.95		ug/L		98	70 - 130
Acenaphthene	<0.099		1.98	2.04		ug/L		103	70 - 130
Acenaphthylene	<0.099		1.98	1.98		ug/L		100	70 - 130
Acetochlor	<0.099		1.98	2.02		ug/L		102	70 - 130
Alachlor	<0.049		1.98	1.96		ug/L		99	70 - 130
alpha-BHC	<0.099		1.98	2.00		ug/L		101	70 - 130
alpha-Chlordane	<0.049		1.98	1.74		ug/L		88	70 - 130
Anthracene	<0.020		1.98	1.68		ug/L		85	70 - 130
Atrazine	<0.049		1.98	2.08		ug/L		105	70 - 130
Benz(a)anthracene	<0.049		1.98	1.93		ug/L		98	70 - 130
Benzo[a]pyrene	<0.020		1.98	2.01		ug/L		101	70 - 130
Benzo[b]fluoranthene	<0.020		1.98	2.17		ug/L		110	70 - 130
Benzo[g,h,i]perylene	<0.049		1.98	2.07		ug/L		105	70 - 130
Benzo[k]fluoranthene	<0.020		1.98	2.15		ug/L		108	70 - 130
beta-BHC	<0.099		1.98	2.05		ug/L		104	70 - 130
Bis(2-ethylhexyl) phthalate	<0.59		1.98	2.26		ug/L		114	70 - 130
Bromacil	<0.099		1.98	2.01		ug/L		101	70 - 130
Butachlor	<0.049		1.98	2.23		ug/L		113	70 - 130
Butylbenzylphthalate	<0.49		1.98	2.11		ug/L		106	70 - 130
Chlorobenzilate	<0.099		1.98	2.06		ug/L		104	70 - 130
Chloroneb	<0.099		1.98	1.91		ug/L		97	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.099		1.98	2.07		ug/L		105	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-143376-1
SDG: Weekly

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

Lab Sample ID: 380-143251-O-1-A MS

Matrix: Water

Analysis Batch: 145443

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 145277

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chlorpyrifos	<0.049		1.98	2.11		ug/L		107	70 - 130
Chrysene	<0.020		1.98	2.08		ug/L		105	70 - 130
delta-BHC	<0.099		1.98	2.02		ug/L		102	70 - 130
Di(2-ethylhexyl)adipate	<0.59		1.98	2.15		ug/L		109	70 - 130
Dibenz(a,h)anthracene	<0.049		1.98	2.03		ug/L		103	70 - 130
Diclorvos (DDVP)	<0.049		1.98	2.17		ug/L		110	70 - 130
Dieldrin	<0.0099		1.98	1.91		ug/L		96	70 - 130
Diethylphthalate	<0.49		1.98	2.09		ug/L		105	70 - 130
Dimethylphthalate	<0.49		1.98	2.04		ug/L		103	70 - 130
Di-n-butyl phthalate	<0.99		3.96	4.14		ug/L		104	70 - 130
Di-n-octyl phthalate	<0.099		1.98	2.18		ug/L		110	70 - 130
Endosulfan I (Alpha)	<0.099		1.98	1.90		ug/L		96	70 - 130
Endosulfan II (Beta)	<0.099		1.98	1.98		ug/L		100	70 - 130
Endosulfan sulfate	<0.099		1.98	2.05		ug/L		103	70 - 130
Endrin	<0.0099		1.98	2.14		ug/L		108	70 - 130
Endrin aldehyde	<0.099		1.98	1.66		ug/L		84	60 - 130
EPTC	<0.099		1.98	2.10		ug/L		106	70 - 130
Fluoranthene	<0.099		1.98	2.09		ug/L		106	70 - 130
Fluorene	<0.049		1.98	2.04		ug/L		103	70 - 130
gamma-Chlordane	<0.049		1.98	1.64		ug/L		83	70 - 130
Heptachlor	<0.0099		1.98	2.42		ug/L		122	70 - 130
Heptachlor epoxide (isomer B)	<0.0099		1.98	2.02		ug/L		102	70 - 130
Hexachlorobenzene	<0.049		1.98	1.76		ug/L		89	70 - 130
Hexachlorocyclopentadiene	<0.049		1.98	1.84		ug/L		93	70 - 130
Indeno[1,2,3-cd]pyrene	<0.049		1.98	2.04		ug/L		103	70 - 130
Isophorone	<0.099		1.98	2.21		ug/L		112	70 - 130
Lindane	<0.0099		1.98	2.02		ug/L		102	70 - 130
Malathion	<0.099		1.98	2.08		ug/L		105	70 - 130
Methoxychlor	<0.049		1.98	2.27		ug/L		115	70 - 130
Metolachlor	<0.049		1.98	2.25		ug/L		113	70 - 130
Molinate	<0.099		1.98	2.16		ug/L		109	70 - 130
Naphthalene	<0.099		1.98	2.20		ug/L		111	70 - 130
Parathion	<0.099		1.98	2.16		ug/L		109	70 - 130
Pendimethalin (Penoxaline)	<0.099		1.98	1.95		ug/L		98	70 - 130
Phenanthrene	<0.039		1.98	2.04		ug/L		103	70 - 130
Propachlor	<0.049		1.98	2.19		ug/L		111	70 - 130
Pyrene	<0.049		1.98	2.10		ug/L		106	70 - 130
Simazine	<0.049		1.98	2.13		ug/L		108	70 - 130
Terbacil	<0.099		1.98	2.36		ug/L		119	70 - 130
Terbutylazine	<0.099		1.98	2.08		ug/L		105	70 - 130
Thiobencarb	<0.099		1.98	2.37		ug/L		120	70 - 130
trans-Nonachlor	<0.049		1.98	1.70		ug/L		86	70 - 130
Trifluralin	<0.099		1.98	1.73		ug/L		87	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Nitro-m-xylene	98		70 - 130
Perylene-d12	87		70 - 130
Triphenylphosphate	94		70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-143376-1
SDG: Weekly

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

Lab Sample ID: 380-143301-C-1-B DU

Matrix: Water

Analysis Batch: 145443

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 145277

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
1-Methylnaphthalene	<0.098		<0.098		ug/L		NC	20
2,4'-DDD	<0.098		<0.098		ug/L		NC	20
2,4'-DDE	<0.098		<0.098		ug/L		NC	20
2,4'-DDT	<0.098		<0.098		ug/L		NC	20
2,4-Dinitrotoluene	<0.098		<0.098		ug/L		NC	20
2,6-Dinitrotoluene	<0.098		<0.098		ug/L		NC	20
2-Methylnaphthalene	<0.098		<0.098		ug/L		NC	20
4,4'-DDD	<0.098		<0.098		ug/L		NC	20
4,4'-DDE	<0.098		<0.098		ug/L		NC	20
4,4'-DDT	<0.098		<0.098		ug/L		NC	20
Acenaphthene	<0.098		<0.098		ug/L		NC	20
Acenaphthylene	<0.098		<0.098		ug/L		NC	20
Acetochlor	<0.098		<0.098		ug/L		NC	20
Alachlor	<0.049		<0.049		ug/L		NC	20
alpha-BHC	<0.098		<0.098		ug/L		NC	20
alpha-Chlordane	<0.049		<0.049		ug/L		NC	20
Anthracene	<0.020		<0.020		ug/L		NC	20
Atrazine	<0.049		<0.049		ug/L		NC	20
Benz(a)anthracene	<0.049		<0.049		ug/L		NC	20
Benzo[a]pyrene	<0.020		<0.020		ug/L		NC	20
Benzo[b]fluoranthene	<0.020		<0.020		ug/L		NC	20
Benzo[g,h,i]perylene	<0.049		<0.049		ug/L		NC	20
Benzo[k]fluoranthene	<0.020		<0.020		ug/L		NC	20
beta-BHC	<0.098		<0.098		ug/L		NC	20
Bis(2-ethylhexyl) phthalate	<0.59		<0.59		ug/L		NC	20
Bromacil	<0.098		<0.098		ug/L		NC	20
Butachlor	<0.049		<0.049		ug/L		NC	20
Butylbenzylphthalate	<0.49		<0.49		ug/L		NC	20
Chlorobenzilate	<0.098		<0.098		ug/L		NC	20
Chloroneb	<0.098		<0.098		ug/L		NC	20
Chlorothalonil (Draconil, Bravo)	<0.098		<0.098		ug/L		NC	20
Chlorpyrifos	<0.049		<0.049		ug/L		NC	20
Chrysene	<0.020		<0.020		ug/L		NC	20
delta-BHC	<0.098		<0.098		ug/L		NC	20
Di(2-ethylhexyl)adipate	<0.59		<0.59		ug/L		NC	20
Dibenz(a,h)anthracene	<0.049		<0.049		ug/L		NC	20
Diclorvos (DDVP)	<0.049		<0.049		ug/L		NC	20
Dieldrin	<0.0098		<0.0098		ug/L		NC	20
Diethylphthalate	<0.49		<0.49		ug/L		NC	20
Dimethylphthalate	<0.49		<0.49		ug/L		NC	20
Di-n-butyl phthalate	<0.98		<0.98		ug/L		NC	20
Di-n-octyl phthalate	<0.098		<0.098		ug/L		NC	20
Endosulfan I (Alpha)	<0.098		<0.098		ug/L		NC	20
Endosulfan II (Beta)	<0.098		<0.098		ug/L		NC	20
Endosulfan sulfate	<0.098		<0.098		ug/L		NC	20
Endrin	<0.0098		<0.0098		ug/L		NC	20
Endrin aldehyde	<0.098		<0.098		ug/L		NC	20
EPTC	<0.098		<0.098		ug/L		NC	20

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-143376-1
SDG: Weekly

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

Lab Sample ID: 380-143301-C-1-B DU

Matrix: Water

Analysis Batch: 145443

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 145277

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
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	%Recovery	DU Qualifier	Limits
2-Nitro-m-xylene	100		70 - 130
Perylene-d12	80		70 - 130
Triphenylphosphate	92		70 - 130

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

Lab Sample ID: MB 570-553677/1-A

Matrix: Water

Analysis Batch: 558159

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 553677

Tentatively Identified Compound	Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	04/04/25 09:08	04/15/25 11:33	1

Surrogate	%Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	85		33 - 139	04/04/25 09:08	04/15/25 11:33	1
2-Fluorobiphenyl (Surr)	113		33 - 126	04/04/25 09:08	04/15/25 11:33	1
2-Fluorophenol (Surr)	68		12 - 120	04/04/25 09:08	04/15/25 11:33	1
Nitrobenzene-d5 (Surr)	120		36 - 120	04/04/25 09:08	04/15/25 11:33	1
Phenol-d6 (Surr)	39		10 - 120	04/04/25 09:08	04/15/25 11:33	1

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-143376-1
SDG: Weekly

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

Lab Sample ID: MB 570-553677/1-A

Matrix: Water

Analysis Batch: 558159

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 553677

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl-d14 (Surr)	115		47 - 131	04/04/25 09:08	04/15/25 11:33	1

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

Lab Sample ID: MB 570-553677/1-A

Matrix: Water

Analysis Batch: 556409

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 553677

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.20		0.20	ug/L		04/04/25 09:08	04/10/25 16:13	1
2-Methylnaphthalene	<0.20		0.20	ug/L		04/04/25 09:08	04/10/25 16:13	1
Acenaphthene	<0.20		0.20	ug/L		04/04/25 09:08	04/10/25 16:13	1
Acenaphthylene	<0.20		0.20	ug/L		04/04/25 09:08	04/10/25 16:13	1
Anthracene	<0.20		0.20	ug/L		04/04/25 09:08	04/10/25 16:13	1
Benzo[a]anthracene	<0.20		0.20	ug/L		04/04/25 09:08	04/10/25 16:13	1
Benzo[a]pyrene	<0.20		0.20	ug/L		04/04/25 09:08	04/10/25 16:13	1
Benzo[b]fluoranthene	<0.20		0.20	ug/L		04/04/25 09:08	04/10/25 16:13	1
Benzo[g,h,i]perylene	<0.20		0.20	ug/L		04/04/25 09:08	04/10/25 16:13	1
Benzo[k]fluoranthene	<0.20		0.20	ug/L		04/04/25 09:08	04/10/25 16:13	1
Chrysene	<0.20		0.20	ug/L		04/04/25 09:08	04/10/25 16:13	1
Dibenz(a,h)anthracene	<0.20		0.20	ug/L		04/04/25 09:08	04/10/25 16:13	1
Fluoranthene	<0.20		0.20	ug/L		04/04/25 09:08	04/10/25 16:13	1
Fluorene	<0.20		0.20	ug/L		04/04/25 09:08	04/10/25 16:13	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20	ug/L		04/04/25 09:08	04/10/25 16:13	1
Naphthalene	<0.20		0.20	ug/L		04/04/25 09:08	04/10/25 16:13	1
Phenanthrene	<0.20		0.20	ug/L		04/04/25 09:08	04/10/25 16:13	1
Pyrene	<0.20		0.20	ug/L		04/04/25 09:08	04/10/25 16:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	108		28 - 127	04/04/25 09:08	04/10/25 16:13	1
2-Fluorobiphenyl (Surr)	94		31 - 120	04/04/25 09:08	04/10/25 16:13	1
2-Fluorophenol (Surr)	65		17 - 120	04/04/25 09:08	04/10/25 16:13	1
Nitrobenzene-d5 (Surr)	100		27 - 120	04/04/25 09:08	04/10/25 16:13	1
Phenol-d6 (Surr)	43		10 - 120	04/04/25 09:08	04/10/25 16:13	1
p-Terphenyl-d14 (Surr)	105		45 - 120	04/04/25 09:08	04/10/25 16:13	1

Lab Sample ID: LCS 570-553677/2-A

Matrix: Water

Analysis Batch: 556409

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 553677

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	20.0	16.4		ug/L		82	47 - 120
2-Methylnaphthalene	20.0	18.5		ug/L		93	43 - 120
Acenaphthene	20.0	19.2		ug/L		96	60 - 132
Acenaphthylene	20.0	18.6		ug/L		93	54 - 126
Anthracene	20.0	20.7		ug/L		104	43 - 120
Benzo[a]anthracene	20.0	20.0		ug/L		100	42 - 133
Benzo[a]pyrene	20.0	20.6		ug/L		103	32 - 148

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-143376-1
SDG: Weekly

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

Lab Sample ID: LCS 570-553677/2-A

Matrix: Water

Analysis Batch: 556409

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 553677

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzo[b]fluoranthene	20.0	21.4		ug/L		107	42 - 140
Benzo[g,h,i]perylene	20.0	21.7		ug/L		108	1 - 195
Benzo[k]fluoranthene	20.0	20.4		ug/L		102	25 - 146
Chrysene	20.0	19.3		ug/L		97	44 - 140
Dibenz(a,h)anthracene	20.0	21.8		ug/L		109	1 - 200
Fluoranthene	20.0	22.5		ug/L		113	43 - 121
Fluorene	20.0	20.1		ug/L		100	70 - 120
Indeno[1,2,3-cd]pyrene	20.0	22.3		ug/L		112	1 - 151
Naphthalene	20.0	15.6		ug/L		78	36 - 120
Phenanthrene	20.0	20.4		ug/L		102	65 - 120
Pyrene	20.0	19.7		ug/L		98	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	103		28 - 127
2-Fluorobiphenyl (Surr)	98		31 - 120
2-Fluorophenol (Surr)	70		17 - 120
Nitrobenzene-d5 (Surr)	81		27 - 120
Phenol-d6 (Surr)	48		10 - 120
p-Terphenyl-d14 (Surr)	104		45 - 120

Lab Sample ID: LCSD 570-553677/3-A

Matrix: Water

Analysis Batch: 556409

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 553677

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	20.0	17.0		ug/L		85	47 - 120	4	20
2-Methylnaphthalene	20.0	19.7		ug/L		99	43 - 120	6	20
Acenaphthene	20.0	20.5		ug/L		102	60 - 132	6	29
Acenaphthylene	20.0	19.7		ug/L		99	54 - 126	6	45
Anthracene	20.0	22.3		ug/L		112	43 - 120	7	40
Benzo[a]anthracene	20.0	21.4		ug/L		107	42 - 133	7	32
Benzo[a]pyrene	20.0	21.9		ug/L		109	32 - 148	6	43
Benzo[b]fluoranthene	20.0	22.9		ug/L		114	42 - 140	7	43
Benzo[g,h,i]perylene	20.0	22.4		ug/L		112	1 - 195	3	61
Benzo[k]fluoranthene	20.0	21.6		ug/L		108	25 - 146	6	38
Chrysene	20.0	20.7		ug/L		103	44 - 140	7	53
Dibenz(a,h)anthracene	20.0	23.8		ug/L		119	1 - 200	9	75
Fluoranthene	20.0	24.4	*+	ug/L		122	43 - 121	8	40
Fluorene	20.0	21.5		ug/L		108	70 - 120	7	23
Indeno[1,2,3-cd]pyrene	20.0	23.9		ug/L		119	1 - 151	7	60
Naphthalene	20.0	16.9		ug/L		85	36 - 120	8	39
Phenanthrene	20.0	22.2		ug/L		111	65 - 120	8	24
Pyrene	20.0	20.1		ug/L		101	70 - 120	2	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	104		28 - 127
2-Fluorobiphenyl (Surr)	104		31 - 120
2-Fluorophenol (Surr)	75		17 - 120

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-143376-1
SDG: Weekly

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

Lab Sample ID: LCSD 570-553677/3-A

Matrix: Water

Analysis Batch: 556409

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 553677

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
Nitrobenzene-d5 (Surr)	89		27 - 120
Phenol-d6 (Surr)	53		10 - 120
p-Terphenyl-d14 (Surr)	109		45 - 120

Lab Sample ID: 380-143376-3 MS

Matrix: Drinking Water

Analysis Batch: 557358

Client Sample ID: MOANALUA WELLS (331-223-TP202)

Prep Type: Total/NA

Prep Batch: 553677

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.19		19.2	15.1		ug/L		79	36 - 120
2-Methylnaphthalene	<0.19		19.2	16.8		ug/L		87	32 - 124
Acenaphthene	<0.19		19.2	18.7		ug/L		98	47 - 145
Acenaphthylene	<0.19		19.2	17.5		ug/L		91	33 - 145
Anthracene	<0.19		19.2	20.9		ug/L		109	27 - 133
Benzo[a]anthracene	<0.19		19.2	20.3		ug/L		106	33 - 143
Benzo[a]pyrene	<0.19		19.2	20.9		ug/L		109	17 - 163
Benzo[b]fluoranthene	<0.19		19.2	21.1		ug/L		110	24 - 159
Benzo[g,h,i]perylene	<0.19		19.2	19.4		ug/L		101	1 - 219
Benzo[k]fluoranthene	<0.19		19.2	20.4		ug/L		106	11 - 162
Chrysene	<0.19		19.2	20.1		ug/L		105	17 - 168
Dibenz(a,h)anthracene	<0.19		19.2	19.1		ug/L		99	1 - 227
Fluoranthene	<0.19	+	19.2	22.8		ug/L		119	26 - 137
Fluorene	<0.19		19.2	18.7		ug/L		97	59 - 121
Indeno[1,2,3-cd]pyrene	<0.19		19.2	20.1		ug/L		105	1 - 171
Naphthalene	<0.19		19.2	14.8		ug/L		77	21 - 133
Phenanthrene	<0.19		19.2	20.4		ug/L		106	54 - 120
Pyrene	<0.19		19.2	21.1		ug/L		110	52 - 120

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
2,4,6-Tribromophenol (Surr)	112		28 - 127
2-Fluorobiphenyl (Surr)	96		31 - 120
2-Fluorophenol (Surr)	64		17 - 120
Nitrobenzene-d5 (Surr)	81		27 - 120
Phenol-d6 (Surr)	43		10 - 120
p-Terphenyl-d14 (Surr)	105		45 - 120

Lab Sample ID: 380-143376-3 MSD

Matrix: Drinking Water

Analysis Batch: 557358

Client Sample ID: MOANALUA WELLS (331-223-TP202)

Prep Type: Total/NA

Prep Batch: 553677

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	<0.19		19.1	15.5		ug/L		81	36 - 120	2	30
2-Methylnaphthalene	<0.19		19.1	17.3		ug/L		91	32 - 124	3	30
Acenaphthene	<0.19		19.1	19.2		ug/L		100	47 - 145	2	48
Acenaphthylene	<0.19		19.1	18.0		ug/L		94	33 - 145	3	74
Anthracene	<0.19		19.1	21.0		ug/L		110	27 - 133	1	66
Benzo[a]anthracene	<0.19		19.1	20.4		ug/L		107	33 - 143	1	53
Benzo[a]pyrene	<0.19		19.1	21.0		ug/L		110	17 - 163	1	72

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-143376-1
SDG: Weekly

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

Lab Sample ID: 380-143376-3 MSD

Matrix: Drinking Water

Analysis Batch: 557358

Client Sample ID: MOANALUA WELLS (331-223-TP202)

Prep Type: Total/NA

Prep Batch: 553677

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzo[b]fluoranthene	<0.19		19.1	20.7		ug/L		108	24 - 159	2	71
Benzo[g,h,i]perylene	<0.19		19.1	19.7		ug/L		103	1 - 219	1	97
Benzo[k]fluoranthene	<0.19		19.1	20.9		ug/L		109	11 - 162	2	63
Chrysene	<0.19		19.1	20.3		ug/L		106	17 - 168	1	87
Dibenz(a,h)anthracene	<0.19		19.1	19.3		ug/L		101	1 - 227	1	126
Fluoranthene	<0.19	++	19.1	22.7		ug/L		119	26 - 137	0	66
Fluorene	<0.19		19.1	19.1		ug/L		100	59 - 121	2	38
Indeno[1,2,3-cd]pyrene	<0.19		19.1	20.6		ug/L		108	1 - 171	3	99
Naphthalene	<0.19		19.1	15.5		ug/L		81	21 - 133	5	65
Phenanthrene	<0.19		19.1	20.6		ug/L		108	54 - 120	1	39
Pyrene	<0.19		19.1	21.7		ug/L		113	52 - 120	3	49

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	113		28 - 127
2-Fluorobiphenyl (Surr)	101		31 - 120
2-Fluorophenol (Surr)	69		17 - 120
Nitrobenzene-d5 (Surr)	84		27 - 120
Phenol-d6 (Surr)	45		10 - 120
p-Terphenyl-d14 (Surr)	107		45 - 120

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

Lab Sample ID: MB 570-556348/6

Matrix: Water

Analysis Batch: 556348

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	<10		10	ug/L			04/10/25 17:18	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		38 - 134				04/10/25 17:18	1

Lab Sample ID: LCS 570-556348/4

Matrix: Water

Analysis Batch: 556348

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

			Spike	LCS	LCS				%Rec		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (C4-C13)			400	385		ug/L		96	78 - 120		
Surrogate	LCS	LCS									
	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	95		38 - 134								

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QC Sample Results

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

Job ID: 380-143376-1
SDG: Weekly

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

Lab Sample ID: LCSD 570-556348/5

Matrix: Water

Analysis Batch: 556348

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	384		ug/L		96	78 - 120	0	10
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	93		38 - 134								

Lab Sample ID: MRL 570-556348/3

Matrix: Water

Analysis Batch: 556348

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	12.1		ug/L		121	50 - 150		
Surrogate	MRL %Recovery	MRL Qualifier	Limits								
4-Bromofluorobenzene (Surr)	84		38 - 134								

Lab Sample ID: 380-143376-3 MS

Matrix: Drinking Water

Analysis Batch: 556348

Client Sample ID: MOANALUA WELLS (331-223-TP202)

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	391		ug/L		98	68 - 122		
Surrogate	MS %Recovery	MS Qualifier	Limits								
4-Bromofluorobenzene (Surr)	95		38 - 134								

Lab Sample ID: 380-143376-3 MSD

Matrix: Drinking Water

Analysis Batch: 556348

Client Sample ID: MOANALUA WELLS (331-223-TP202)

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	374		ug/L		94	68 - 122	4	18
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	92		38 - 134								

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

Lab Sample ID: MB 570-554296/1-A

Matrix: Water

Analysis Batch: 557672

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 554296

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<25		25	ug/L		04/06/25 17:06	04/14/25 15:26	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		04/06/25 17:06	04/14/25 15:26	1
C8-C18	<25		25	ug/L		04/06/25 17:06	04/14/25 15:26	1

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-143376-1
SDG: Weekly

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	96		60 - 130	04/06/25 17:06	04/14/25 15:26	1

Lab Sample ID: LCS 570-554296/2-A
Matrix: Water
Analysis Batch: 557672

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 554296

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
C10-C28	1600	1350		ug/L		84	56 - 127

Surrogate	LCS %Recovery	LCS Qualifier	Limits
n-Octacosane (Surr)	103		60 - 130

Lab Sample ID: LCSD 570-554296/3-A
Matrix: Water
Analysis Batch: 557672

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 554296

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28	1600	1340		ug/L		84	56 - 127	0	23

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
n-Octacosane (Surr)	106		60 - 130

Lab Sample ID: MRL 570-554296/4-A
Matrix: Water
Analysis Batch: 557672

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 554296

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
C10-C28	0.0200	0.0308	^3+	mg/L		154	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
n-Octacosane (Surr)	106		60 - 130

Lab Sample ID: 380-143376-3 MS
Matrix: Drinking Water
Analysis Batch: 557672

Client Sample ID: MOANALUA WELLS (331-223-TP202)
Prep Type: Total/NA
Prep Batch: 554296

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
C10-C28	<26	^3+	1680	1400		ug/L		83	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
n-Octacosane (Surr)	104		60 - 130

Lab Sample ID: 380-143376-3 MSD
Matrix: Drinking Water
Analysis Batch: 557672

Client Sample ID: MOANALUA WELLS (331-223-TP202)
Prep Type: Total/NA
Prep Batch: 554296

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28	<26	^3+	1680	1250		ug/L		74	70 - 130	11	20

QC Sample Results

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

Job ID: 380-143376-1
SDG: Weekly

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

Lab Sample ID: 380-143376-3 MSD

Matrix: Drinking Water

Analysis Batch: 557672

Client Sample ID: MOANALUA WELLS (331-223-TP202)

Prep Type: Total/NA

Prep Batch: 554296

	<i>MSD</i>	<i>MSD</i>	
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>n-Octacosane (Surr)</i>	94		60 - 130

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QC Association Summary

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

Job ID: 380-143376-1
SDG: Weekly

GC/MS Semi VOA

Prep Batch: 145277

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-143376-1	Ka'amilo Wells	Total/NA	Water	525.2	
380-143376-3	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	525.2	
MB 380-145277/21-A	Method Blank	Total/NA	Water	525.2	
LCS 380-145277/23-A	Lab Control Sample	Total/NA	Water	525.2	
MRL 380-145277/22-A	Lab Control Sample	Total/NA	Water	525.2	
380-143251-O-1-A MS	Matrix Spike	Total/NA	Water	525.2	
380-143301-C-1-B DU	Duplicate	Total/NA	Water	525.2	

Analysis Batch: 145443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-143376-1	Ka'amilo Wells	Total/NA	Water	525.2	145277
380-143376-3	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	525.2	145277
MB 380-145277/21-A	Method Blank	Total/NA	Water	525.2	145277
LCS 380-145277/23-A	Lab Control Sample	Total/NA	Water	525.2	145277
MRL 380-145277/22-A	Lab Control Sample	Total/NA	Water	525.2	145277
380-143251-O-1-A MS	Matrix Spike	Total/NA	Water	525.2	145277
380-143301-C-1-B DU	Duplicate	Total/NA	Water	525.2	145277

Prep Batch: 553677

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-143376-1	Ka'amilo Wells	Total/NA	Water	625.1	
380-143376-3	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	625.1	
MB 570-553677/1-A	Method Blank	Total/NA	Water	625.1	
LCS 570-553677/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 570-553677/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	
380-143376-3 MS	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	625.1	
380-143376-3 MSD	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	625.1	

Analysis Batch: 556409

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-553677/1-A	Method Blank	Total/NA	Water	625.1 SIM	553677
LCS 570-553677/2-A	Lab Control Sample	Total/NA	Water	625.1 SIM	553677
LCSD 570-553677/3-A	Lab Control Sample Dup	Total/NA	Water	625.1 SIM	553677

Analysis Batch: 557358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-143376-1	Ka'amilo Wells	Total/NA	Water	625.1 SIM	553677
380-143376-3	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	625.1 SIM	553677
380-143376-3 MS	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	625.1 SIM	553677
380-143376-3 MSD	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	625.1 SIM	553677

Analysis Batch: 558159

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-143376-1	Ka'amilo Wells	Total/NA	Water	625.1	553677
380-143376-3	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	625.1	553677
MB 570-553677/1-A	Method Blank	Total/NA	Water	625.1	553677

QC Association Summary

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

Job ID: 380-143376-1
SDG: Weekly

GC VOA

Analysis Batch: 556348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-143376-1	Ka'amilo Wells	Total/NA	Water	8015B GRO LL	
380-143376-2	TB: Ka'amilo Wells	Total/NA	Water	8015B GRO LL	
380-143376-3	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	8015B GRO LL	
380-143376-4	TB:MOANALUA WELLS (331-223-TP202)	Total/NA	Water	8015B GRO LL	
MB 570-556348/6	Method Blank	Total/NA	Water	8015B GRO LL	
LCS 570-556348/4	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-556348/5	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	
MRL 570-556348/3	Lab Control Sample	Total/NA	Water	8015B GRO LL	
380-143376-3 MS	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	8015B GRO LL	
380-143376-3 MSD	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	8015B GRO LL	

GC Semi VOA

Prep Batch: 554296

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-143376-1	Ka'amilo Wells	Total/NA	Water	3510C	
380-143376-3	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	3510C	
MB 570-554296/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-554296/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-554296/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-554296/4-A	Lab Control Sample	Total/NA	Water	3510C	
380-143376-3 MS	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	3510C	
380-143376-3 MSD	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	3510C	

Analysis Batch: 557672

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-143376-1	Ka'amilo Wells	Total/NA	Water	8015B	554296
380-143376-3	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	8015B	554296
MB 570-554296/1-A	Method Blank	Total/NA	Water	8015B	554296
LCS 570-554296/2-A	Lab Control Sample	Total/NA	Water	8015B	554296
LCSD 570-554296/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	554296
MRL 570-554296/4-A	Lab Control Sample	Total/NA	Water	8015B	554296
380-143376-3 MS	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	8015B	554296
380-143376-3 MSD	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	8015B	554296

Lab Chronicle

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

Job ID: 380-143376-1
SDG: Weekly

Client Sample ID: Ka'amilo Wells

Lab Sample ID: 380-143376-1

Date Collected: 03/31/25 11:53

Matrix: Water

Date Received: 04/02/25 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			145277	IQ42	EA POM	04/03/25 14:31
Total/NA	Analysis	525.2		1	145443	Q8LA	EA POM	04/04/25 16:37
Total/NA	Prep	625.1			553677	S8LD	EET CAL 4	04/04/25 09:08
Total/NA	Analysis	625.1		1	558159	J7WE	EET CAL 4	04/15/25 16:12
Total/NA	Prep	625.1			553677	S8LD	EET CAL 4	04/04/25 09:08
Total/NA	Analysis	625.1 SIM		1	557358	PQS1	EET CAL 4	04/13/25 21:27
Total/NA	Analysis	8015B GRO LL		1	556348	A9VE	EET CAL 4	04/11/25 01:31
Total/NA	Prep	3510C			554296	H6FE	EET CAL 4	04/06/25 17:06
Total/NA	Analysis	8015B		1	557672	NR	EET CAL 4	04/14/25 19:05

Client Sample ID: TB: Ka'amilo Wells

Lab Sample ID: 380-143376-2

Date Collected: 03/31/25 11:53

Matrix: Water

Date Received: 04/02/25 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	556348	A9VE	EET CAL 4	04/10/25 21:18

Client Sample ID: MOANALUA WELLS (331-223-TP202)

Lab Sample ID: 380-143376-3

Date Collected: 03/31/25 09:37

Matrix: Drinking Water

Date Received: 04/02/25 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			145277	IQ42	EA POM	04/03/25 14:31
Total/NA	Analysis	525.2		1	145443	Q8LA	EA POM	04/04/25 16:58
Total/NA	Prep	625.1			553677	S8LD	EET CAL 4	04/04/25 09:08
Total/NA	Analysis	625.1		1	558159	J7WE	EET CAL 4	04/15/25 16:35
Total/NA	Prep	625.1			553677	S8LD	EET CAL 4	04/04/25 09:08
Total/NA	Analysis	625.1 SIM		1	557358	PQS1	EET CAL 4	04/13/25 21:05
Total/NA	Analysis	8015B GRO LL		1	556348	A9VE	EET CAL 4	04/10/25 17:55
Total/NA	Prep	3510C			554296	H6FE	EET CAL 4	04/06/25 17:06
Total/NA	Analysis	8015B		1	557672	NR	EET CAL 4	04/14/25 17:16

Client Sample ID: TB:MOANALUA WELLS (331-223-TP202)

Lab Sample ID: 380-143376-4

Date Collected: 03/31/25 09:37

Matrix: Water

Date Received: 04/02/25 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	556348	A9VE	EET CAL 4	04/10/25 21:43

Laboratory References:

EA POM = Eurofins Eaton Analytical Pomona, 941 Corporate Center Drive, Pomona, CA 91768-2642, TEL (626)386-1100
EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Eurofins Eaton Analytical Pomona

Accreditation/Certification Summary

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

Job ID: 380-143376-1
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	04-10-25

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

Analysis Method	Prep Method	Matrix	Analyte
525.2	525.2	Drinking Water	1-Methylnaphthalene
525.2	525.2	Drinking Water	2,4'-DDD
525.2	525.2	Drinking Water	2,4'-DDE
525.2	525.2	Drinking Water	2,4'-DDT
525.2	525.2	Drinking Water	2,4-Dinitrotoluene
525.2	525.2	Drinking Water	2,6-Dinitrotoluene
525.2	525.2	Drinking Water	2-Methylnaphthalene
525.2	525.2	Drinking Water	4,4'-DDD
525.2	525.2	Drinking Water	4,4'-DDE
525.2	525.2	Drinking Water	4,4' DDT
525.2	525.2	Drinking Water	Acetochlor
525.2	525.2	Drinking Water	alpha-BHC
525.2	525.2	Drinking Water	alpha-Chlordane
525.2	525.2	Drinking Water	beta-BHC
525.2	525.2	Drinking Water	Chlorobenzilate
525.2	525.2	Drinking Water	Chloroneb
525.2	525.2	Drinking Water	Chlorothalonil (Draconil, Bravo)
525.2	525.2	Drinking Water	Chlorpyrifos
525.2	525.2	Drinking Water	delta-BHC
525.2	525.2	Drinking Water	Diclorvos (DDVP)
525.2	525.2	Drinking Water	Endosulfan I (Alpha)
525.2	525.2	Drinking Water	Endosulfan II (Beta)
525.2	525.2	Drinking Water	Endosulfan sulfate
525.2	525.2	Drinking Water	Endrin aldehyde
525.2	525.2	Drinking Water	EPTC
525.2	525.2	Drinking Water	gamma-Chlordane
525.2	525.2	Drinking Water	Isophorone
525.2	525.2	Drinking Water	Malathion
525.2	525.2	Drinking Water	Parathion
525.2	525.2	Drinking Water	Pendimethalin (Penoxaline)
525.2	525.2	Drinking Water	Terbacil
525.2	525.2	Drinking Water	Terbutylazine
525.2	525.2	Drinking Water	Total Permethrin (mixed isomers)
525.2	525.2	Drinking Water	trans-Nonachlor
525.2	525.2	Water	1 Methylnaphthalene
525.2	525.2	Water	2,4'-DDD
525.2	525.2	Water	2,4'-DDE
525.2	525.2	Water	2,4'-DDT
525.2	525.2	Water	2,4-Dinitrotoluene
525.2	525.2	Water	2,6-Dinitrotoluene
525.2	525.2	Water	2-Methylnaphthalene
525.2	525.2	Water	4,4'-DDD
525.2	525.2	Water	4,4'-DDE
525.2	525.2	Water	4,4'-DDT
525.2	525.2	Water	Acetochlor

Accreditation/Certification Summary

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

Job ID: 380-143376-1
SDG: Weekly

Laboratory: Eurofins Eaton Analytical Pomona (Continued)

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

Authority	Program	Identification Number	Expiration Date
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
525.2	525.2	Water	alpha-BHC
525.2	525.2	Water	alpha-Chlordane
525.2	525.2	Water	beta-BHC
525.2	525.2	Water	Chlorobenzilate
525.2	525.2	Water	Chloroneb
525.2	525.2	Water	Chlorothalonil (Draconil, Bravo)
525.2	525.2	Water	Chlorpyrifos
525.2	525.2	Water	delta-BHC
525.2	525.2	Water	Diclorvos (DDVP)
525.2	525.2	Water	Endosulfan I (Alpha)
525.2	525.2	Water	Endosulfan II (Beta)
525.2	525.2	Water	Endosulfan sulfate
525.2	525.2	Water	Endrin aldehyde
525.2	525.2	Water	EPTC
525.2	525.2	Water	gamma-Chlordane
525.2	525.2	Water	Isophorone
525.2	525.2	Water	Malathion
525.2	525.2	Water	Parathion
525.2	525.2	Water	Pendimethalin (Penoxaline)
525.2	525.2	Water	Terbacil
525.2	525.2	Water	Terbutylazine
525.2	525.2	Water	Total Permethrin (mixed isomers)
525.2	525.2	Water	trans-Nonachlor

Laboratory: Eurofins Calscience

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

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

Method Summary

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

Job ID: 380-143376-1
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: 380-143376-1
SDG: Weekly

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
380-143376-1	Ka'amilo Wells	Water	03/31/25 11:53	04/02/25 09:20
380-143376-2	TB: Ka'amilo Wells	Water	03/31/25 11:53	04/02/25 09:20
380-143376-3	MOANALUA WELLS (331-223-TP202)	Drinking Water	03/31/25 09:37	04/02/25 09:20
380-143376-4	TB:MOANALUA WELLS (331-223-TP202)	Water	03/31/25 09:37	04/02/25 09:20

Chain of Custody Record

Client Information		Sampler bailey		Lab PW: Arada, Rachelle		Carrier Tracking No(s):		COC No: 380-28005-2757 1	
Client Contact: Kirk Iwamoto		Phone: +1 808 748 5840		E-Mail: Rachelle.Arada@eurofins.com		State of Origin:		Page: Page 1 of 1	
Company: City & County of Honolulu		PWSID:		Analysis Requested		Job #:		Preservation Codes: R - NaThioSO4 RA - NaThio/HCl Q - Na2SO3 QA - Na2SO3/HCl Y - Trizma I - NH4 Acetate 380-143376 COC Other:	
Address: 630 South Beretania Street Chemistry Lab		Due Date Requested:		TAT Requested (days):		Compliance Project: Δ Yes Δ No		Total Number of Containers	
City: Honolulu		State, Zip: HI, 96843		PO #: C20525101 exp 05312023		WO #:		Special Instructions/Note: pump running #32	
Phone: 808-748-5840 (Tel)		Email: kiwamoto@hbws.org		Project #: 38001111		SSOW#:		pump running #3	
Event Desc: RUSH Weekly Red Hill		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=soil, B=BT-Tissue, A=Air)	
Site: Hawaii		31-Mar-2025		1153		G		Water	
Sample Identification		31-Mar-2025		1153		G		Water	
Ka'amilo Wells		31-Mar-2025		1153		G		Water	
Ka'amilo Wells (Matrix Spike)		31-Mar-2025		1153		G		Water	
Ka'amilo Wells (Matrix Spike Duplicate)		31-Mar-2025		1153		G		Water	
TB: Ka'amilo Wells		31-Mar-2025		1153		G		Water	
Moanalua Wells		31-Mar-2025		1153		G		Water	
Moanalua Wells (Matrix Spike)		31-Mar-2025		1153		G		Water	
Moanalua Wells (Matrix Spike Duplicate)		31-Mar-2025		1153		G		Water	
TB: Moanalua Wells		31-Mar-2025		1153		G		Water	
Possible Hazard Identification		Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological ☐		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Return To Client ☐ Archive For ☐ Months		Special Instructions/QC Requirements: 5896/5852/5911/5863/5900 5896/5852/5911/5863/5874	
Deliverable Requested I, II, III, IV, Other (specify)		Empty Kit Relinquished by		Date		Time		Method of Shipment	
Relinquished by		Date/Time: 01/29/2025 1400		Company: HBWS		Received by		Date/Time: 4/2/25 9:20	
Relinquished by		Date/Time:		Company:		Received by		Date/Time: 4/2 5:45	
Relinquished by		Date/Time:		Company:		Received by		Date/Time: 1:5 5:0	
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.		Cooler Temperature(s) °C and Other Remarks: 60A/1.4 = 1.4		Ver 04/02/2024		3/31/25	

ORIGIN ID:HIKA
BWS CHEMLAB
HONOLULU BOARD OF WATER SUPPLY
630 S. BERETANIA ST.
CHEMICAL LABORATORY
HONOLULU HI 96843
UNITED STATES US

(808) 748-5840
SHIP DATE: 01APR25
ACTWTGT 62.00 LB
CAD 258050552/INET4535
BILL RECIPIENT

TO EUROFINS RECEIVING DEPARTMENT
EUROFINS DRINKING WATER TESTING
941 CORPORATE CENTER DR

POMONA CA 91768

(626) 386-1100 REF

PG: INV- PC: DEPT



WED - 02 APR 10:30A
PRIORITY OVERNIGHT

3 of 7

MPS# 8802 3852 5874

0263

Mstr# 8802 3852 5852

91768

CA-US ONT

WM ONTA



After printing this label
CONSIGNEE COPY - PLEASE PLACE IN FRONT OF POUCH
1 Fold the printed page along the horizontal line
2 Place label in shipping pouch and affix it to your shipment

Page 43 of 45

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-143376-1

SDG Number: Weekly

Login Number: 143376

List Source: Eurofins Eaton Analytical Pomona

List Number: 1

Creator: Ngo, Theodore

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: 380-143376-1

SDG Number: Weekly

Login Number: 143376

List Number: 2

Creator: Khana, Piyush

List Source: Eurofins Calscience

List Creation: 04/03/25 02:19 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.8
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 $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	