

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Erwin Kawata
City & County of Honolulu
630 South Beretania Street
Public Service Bldg. Room 310
Honolulu, Hawaii 96843

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JOB DESCRIPTION

RED-HILL
Weekly

JOB NUMBER

380-130962-1

Eurofins Eaton Analytical Pomona

Job Notes

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

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

Compliance Statement

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

Authorization



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Authorized for release by
Rachelle Arada, Project Manager
Rachelle.Arada@et.eurofinsus.com
(626)386-1106



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Definitions/Glossary

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

Job ID: 380-130962-1
SDG: Weekly

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA TICs

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

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: 380-130962-1

Job ID: 380-130962-1

Eurofins Eaton Analytical Pomona

Job Narrative 380-130962-1

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 1/17/2025 10:28 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.9°C and 3.1°C.

GC/MS Semi VOA

Method 625.1: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 570-524601. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

Method 625.1_SIM: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 570-524601. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

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

Gasoline Range Organics

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

Diesel Range Organics

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

Detection Summary

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

Job ID: 380-130962-1
SDG: Weekly

Client Sample ID: HALAWA WELLS P1

Lab Sample ID: 380-130962-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Dieldrin	0.035		0.0099	ug/L	1		525.2	Total/NA
Heptachlor epoxide (isomer B)	0.012		0.0099	ug/L	1		525.2	Total/NA

Client Sample ID: KAAMILO WELLS

Lab Sample ID: 380-130962-2

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Dieldrin	0.029		0.0098	ug/L	1		525.2	Total/NA

Client Sample ID: TB HALAWA WELLS P1

Lab Sample ID: 380-130962-3

No Detections.

Client Sample ID: TB KAAMILO WELLS

Lab Sample ID: 380-130962-4

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: 380-130962-1
SDG: Weekly

Client Sample ID: HALAWA WELLS P1

Lab Sample ID: 380-130962-1

Date Collected: 01/14/25 09:40

Matrix: Water

Date Received: 01/17/25 10:28

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		01/21/25 06:08	01/21/25 17:07	1
2,4'-DDD	<0.099		0.099	ug/L		01/21/25 06:08	01/21/25 17:07	1
2,4'-DDE	<0.099		0.099	ug/L		01/21/25 06:08	01/21/25 17:07	1
2,4'-DDT	<0.099		0.099	ug/L		01/21/25 06:08	01/21/25 17:07	1
2,4-Dinitrotoluene	<0.099		0.099	ug/L		01/21/25 06:08	01/21/25 17:07	1
2,6-Dinitrotoluene	<0.099		0.099	ug/L		01/21/25 06:08	01/21/25 17:07	1
2-Methylnaphthalene	<0.099		0.099	ug/L		01/21/25 06:08	01/21/25 17:07	1
4,4'-DDD	<0.099		0.099	ug/L		01/21/25 06:08	01/21/25 17:07	1
4,4'-DDE	<0.099		0.099	ug/L		01/21/25 06:08	01/21/25 17:07	1
4,4'-DDT	<0.099		0.099	ug/L		01/21/25 06:08	01/21/25 17:07	1
Acenaphthene	<0.099		0.099	ug/L		01/21/25 06:08	01/21/25 17:07	1
Acenaphthylene	<0.099		0.099	ug/L		01/21/25 06:08	01/21/25 17:07	1
Acetochlor	<0.099		0.099	ug/L		01/21/25 06:08	01/21/25 17:07	1
Alachlor	<0.050		0.050	ug/L		01/21/25 06:08	01/21/25 17:07	1
alpha-BHC	<0.099		0.099	ug/L		01/21/25 06:08	01/21/25 17:07	1
alpha-Chlordane	<0.050		0.050	ug/L		01/21/25 06:08	01/21/25 17:07	1
Anthracene	<0.020		0.020	ug/L		01/21/25 06:08	01/21/25 17:07	1
Atrazine	<0.050		0.050	ug/L		01/21/25 06:08	01/21/25 17:07	1
Benz(a)anthracene	<0.050		0.050	ug/L		01/21/25 06:08	01/21/25 17:07	1
Benzo[a]pyrene	<0.020		0.020	ug/L		01/21/25 06:08	01/21/25 17:07	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		01/21/25 06:08	01/21/25 17:07	1
Benzo[g,h,i]perylene	<0.050		0.050	ug/L		01/21/25 06:08	01/21/25 17:07	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		01/21/25 06:08	01/21/25 17:07	1
beta-BHC	<0.099		0.099	ug/L		01/21/25 06:08	01/21/25 17:07	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		01/21/25 06:08	01/21/25 17:07	1
Bromacil	<0.099		0.099	ug/L		01/21/25 06:08	01/21/25 17:07	1
Butachlor	<0.050		0.050	ug/L		01/21/25 06:08	01/21/25 17:07	1
Butylbenzylphthalate	<0.50		0.50	ug/L		01/21/25 06:08	01/21/25 17:07	1
Chlorobenzilate	<0.099		0.099	ug/L		01/21/25 06:08	01/21/25 17:07	1
Chloroneb	<0.099		0.099	ug/L		01/21/25 06:08	01/21/25 17:07	1
Chlorothalonil (Draconil, Bravo)	<0.099		0.099	ug/L		01/21/25 06:08	01/21/25 17:07	1
Chlorpyrifos	<0.050		0.050	ug/L		01/21/25 06:08	01/21/25 17:07	1
Chrysene	<0.020		0.020	ug/L		01/21/25 06:08	01/21/25 17:07	1
delta-BHC	<0.099		0.099	ug/L		01/21/25 06:08	01/21/25 17:07	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		01/21/25 06:08	01/21/25 17:07	1
Dibenz(a,h)anthracene	<0.050		0.050	ug/L		01/21/25 06:08	01/21/25 17:07	1
Diclorvos (DDVP)	<0.050		0.050	ug/L		01/21/25 06:08	01/21/25 17:07	1
Dieldrin	0.035		0.0099	ug/L		01/21/25 06:08	01/21/25 17:07	1
Diethylphthalate	<0.50		0.50	ug/L		01/21/25 06:08	01/21/25 17:07	1
Dimethylphthalate	<0.50		0.50	ug/L		01/21/25 06:08	01/21/25 17:07	1
Di-n-butyl phthalate	<0.99		0.99	ug/L		01/21/25 06:08	01/21/25 17:07	1
Di-n-octyl phthalate	<0.099		0.099	ug/L		01/21/25 06:08	01/21/25 17:07	1
Endosulfan I (Alpha)	<0.099		0.099	ug/L		01/21/25 06:08	01/21/25 17:07	1
Endosulfan II (Beta)	<0.099		0.099	ug/L		01/21/25 06:08	01/21/25 17:07	1
Endosulfan sulfate	<0.099		0.099	ug/L		01/21/25 06:08	01/21/25 17:07	1
Endrin	<0.0099		0.0099	ug/L		01/21/25 06:08	01/21/25 17:07	1
Endrin aldehyde	<0.099		0.099	ug/L		01/21/25 06:08	01/21/25 17:07	1
EPTC	<0.099		0.099	ug/L		01/21/25 06:08	01/21/25 17:07	1
Fluoranthene	<0.099		0.099	ug/L		01/21/25 06:08	01/21/25 17:07	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-130962-1
SDG: Weekly

Client Sample ID: HALAWA WELLS P1

Lab Sample ID: 380-130962-1

Date Collected: 01/14/25 09:40

Matrix: Water

Date Received: 01/17/25 10:28

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	<0.050		0.050	ug/L		01/21/25 06:08	01/21/25 17:07	1
gamma-Chlordane	<0.050		0.050	ug/L		01/21/25 06:08	01/21/25 17:07	1
Heptachlor	<0.0099		0.0099	ug/L		01/21/25 06:08	01/21/25 17:07	1
Heptachlor epoxide (isomer B)	0.012		0.0099	ug/L		01/21/25 06:08	01/21/25 17:07	1
Hexachlorobenzene	<0.050		0.050	ug/L		01/21/25 06:08	01/21/25 17:07	1
Hexachlorocyclopentadiene	<0.050		0.050	ug/L		01/21/25 06:08	01/21/25 17:07	1
Indeno[1,2,3-cd]pyrene	<0.050		0.050	ug/L		01/21/25 06:08	01/21/25 17:07	1
Isophorone	<0.099		0.099	ug/L		01/21/25 06:08	01/21/25 17:07	1
Lindane	<0.0099		0.0099	ug/L		01/21/25 06:08	01/21/25 17:07	1
Malathion	<0.099		0.099	ug/L		01/21/25 06:08	01/21/25 17:07	1
Methoxychlor	<0.050		0.050	ug/L		01/21/25 06:08	01/21/25 17:07	1
Metolachlor	<0.050		0.050	ug/L		01/21/25 06:08	01/21/25 17:07	1
Molinate	<0.099		0.099	ug/L		01/21/25 06:08	01/21/25 17:07	1
Naphthalene	<0.099		0.099	ug/L		01/21/25 06:08	01/21/25 17:07	1
Parathion	<0.099		0.099	ug/L		01/21/25 06:08	01/21/25 17:07	1
Pendimethalin (Penoxaline)	<0.099		0.099	ug/L		01/21/25 06:08	01/21/25 17:07	1
Phenanthrene	<0.040		0.040	ug/L		01/21/25 06:08	01/21/25 17:07	1
Propachlor	<0.050		0.050	ug/L		01/21/25 06:08	01/21/25 17:07	1
Pyrene	<0.050		0.050	ug/L		01/21/25 06:08	01/21/25 17:07	1
Simazine	<0.050		0.050	ug/L		01/21/25 06:08	01/21/25 17:07	1
Terbacil	<0.099		0.099	ug/L		01/21/25 06:08	01/21/25 17:07	1
Terbutylazine	<0.099		0.099	ug/L		01/21/25 06:08	01/21/25 17:07	1
Thiobencarb	<0.099		0.099	ug/L		01/21/25 06:08	01/21/25 17:07	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		01/21/25 06:08	01/21/25 17:07	1
trans-Nonachlor	<0.050		0.050	ug/L		01/21/25 06:08	01/21/25 17:07	1
Trifluralin	<0.099		0.099	ug/L		01/21/25 06:08	01/21/25 17:07	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	01/21/25 06:08	01/21/25 17:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	98		70 - 130	01/21/25 06:08	01/21/25 17:07	1
Perylene-d12	95		70 - 130	01/21/25 06:08	01/21/25 17:07	1
Triphenylphosphate	103		70 - 130	01/21/25 06:08	01/21/25 17:07	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		01/20/25 13:18	01/29/25 18:17	1
2-Methylnaphthalene	<0.19		0.19	ug/L		01/20/25 13:18	01/29/25 18:17	1
Acenaphthene	<0.19		0.19	ug/L		01/20/25 13:18	01/29/25 18:17	1
Acenaphthylene	<0.19		0.19	ug/L		01/20/25 13:18	01/29/25 18:17	1
Anthracene	<0.19		0.19	ug/L		01/20/25 13:18	01/29/25 18:17	1
Benzo[a]anthracene	<0.19		0.19	ug/L		01/20/25 13:18	01/29/25 18:17	1
Benzo[a]pyrene	<0.19		0.19	ug/L		01/20/25 13:18	01/29/25 18:17	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		01/20/25 13:18	01/29/25 18:17	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		01/20/25 13:18	01/29/25 18:17	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		01/20/25 13:18	01/29/25 18:17	1
Chrysene	<0.19		0.19	ug/L		01/20/25 13:18	01/29/25 18:17	1
Dibenz(a,h)anthracene	<0.19		0.19	ug/L		01/20/25 13:18	01/29/25 18:17	1
Fluoranthene	<0.19		0.19	ug/L		01/20/25 13:18	01/29/25 18:17	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-130962-1
SDG: Weekly

Client Sample ID: HALAWA WELLS P1

Lab Sample ID: 380-130962-1

Date Collected: 01/14/25 09:40

Matrix: Water

Date Received: 01/17/25 10:28

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		01/20/25 13:18	01/29/25 18:17	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		01/20/25 13:18	01/29/25 18:17	1
Naphthalene	<0.19		0.19	ug/L		01/20/25 13:18	01/29/25 18:17	1
Phenanthrene	<0.19		0.19	ug/L		01/20/25 13:18	01/29/25 18:17	1
Pyrene	<0.19		0.19	ug/L		01/20/25 13:18	01/29/25 18:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	88		28 - 127	01/20/25 13:18	01/29/25 18:17	1
2-Fluorobiphenyl (Surr)	79		31 - 120	01/20/25 13:18	01/29/25 18:17	1
2-Fluorophenol (Surr)	51		17 - 120	01/20/25 13:18	01/29/25 18:17	1
Nitrobenzene-d5 (Surr)	79		27 - 120	01/20/25 13:18	01/29/25 18:17	1
Phenol-d6 (Surr)	31		10 - 120	01/20/25 13:18	01/29/25 18:17	1
p-Terphenyl-d14 (Surr)	77		45 - 120	01/20/25 13:18	01/29/25 18:17	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
2-Butenal, 3-methyl-	6.0	T J N	ug/L		2.76	107-86-8	01/20/25 13:18	01/27/25 15:15	1
Propanoic acid, 2-methyl-, 3-methylbutyl ester	5.8	T J N	ug/L		2.85	2050-01-3	01/20/25 13:18	01/27/25 15:15	1
Cyclohexane, 1-methyl-2-propyl-	6.4	T J N	ug/L		2.98	4291-79-6	01/20/25 13:18	01/27/25 15:15	1
Pentafluorochlorodimethyl trisulfide	4.5	T J N	ug/L		7.19	1000226-65-9	01/20/25 13:18	01/27/25 15:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	99		33 - 139	01/20/25 13:18	01/27/25 15:15	1
2-Fluorobiphenyl (Surr)	72		33 - 126	01/20/25 13:18	01/27/25 15:15	1
2-Fluorophenol (Surr)	56		12 - 120	01/20/25 13:18	01/27/25 15:15	1
Nitrobenzene-d5 (Surr)	80		36 - 120	01/20/25 13:18	01/27/25 15:15	1
Phenol-d6 (Surr)	33		10 - 120	01/20/25 13:18	01/27/25 15:15	1
p-Terphenyl-d14 (Surr)	75		47 - 131	01/20/25 13:18	01/27/25 15:15	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			01/22/25 17:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		38 - 134		01/22/25 17:10	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		01/20/25 15:09	01/28/25 02:38	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		01/20/25 15:09	01/28/25 02:38	1
C8-C18	<25		25	ug/L		01/20/25 15:09	01/28/25 02:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	71		60 - 130	01/20/25 15:09	01/28/25 02:38	1

Client Sample Results

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

Job ID: 380-130962-1
SDG: Weekly

Client Sample ID: KAAMILO WELLS

Lab Sample ID: 380-130962-2

Date Collected: 01/14/25 10:10

Matrix: Water

Date Received: 01/17/25 10:28

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		01/21/25 06:08	01/21/25 17:27	1
2,4'-DDD	<0.098		0.098	ug/L		01/21/25 06:08	01/21/25 17:27	1
2,4'-DDE	<0.098		0.098	ug/L		01/21/25 06:08	01/21/25 17:27	1
2,4'-DDT	<0.098		0.098	ug/L		01/21/25 06:08	01/21/25 17:27	1
2,4-Dinitrotoluene	<0.098		0.098	ug/L		01/21/25 06:08	01/21/25 17:27	1
2,6-Dinitrotoluene	<0.098		0.098	ug/L		01/21/25 06:08	01/21/25 17:27	1
2-Methylnaphthalene	<0.098		0.098	ug/L		01/21/25 06:08	01/21/25 17:27	1
4,4'-DDD	<0.098		0.098	ug/L		01/21/25 06:08	01/21/25 17:27	1
4,4'-DDE	<0.098		0.098	ug/L		01/21/25 06:08	01/21/25 17:27	1
4,4'-DDT	<0.098		0.098	ug/L		01/21/25 06:08	01/21/25 17:27	1
Acenaphthene	<0.098		0.098	ug/L		01/21/25 06:08	01/21/25 17:27	1
Acenaphthylene	<0.098		0.098	ug/L		01/21/25 06:08	01/21/25 17:27	1
Acetochlor	<0.098		0.098	ug/L		01/21/25 06:08	01/21/25 17:27	1
Alachlor	<0.049		0.049	ug/L		01/21/25 06:08	01/21/25 17:27	1
alpha-BHC	<0.098		0.098	ug/L		01/21/25 06:08	01/21/25 17:27	1
alpha-Chlordane	<0.049		0.049	ug/L		01/21/25 06:08	01/21/25 17:27	1
Anthracene	<0.020		0.020	ug/L		01/21/25 06:08	01/21/25 17:27	1
Atrazine	<0.049		0.049	ug/L		01/21/25 06:08	01/21/25 17:27	1
Benz(a)anthracene	<0.049		0.049	ug/L		01/21/25 06:08	01/21/25 17:27	1
Benzo[a]pyrene	<0.020		0.020	ug/L		01/21/25 06:08	01/21/25 17:27	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		01/21/25 06:08	01/21/25 17:27	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		01/21/25 06:08	01/21/25 17:27	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		01/21/25 06:08	01/21/25 17:27	1
beta-BHC	<0.098		0.098	ug/L		01/21/25 06:08	01/21/25 17:27	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		01/21/25 06:08	01/21/25 17:27	1
Bromacil	<0.098		0.098	ug/L		01/21/25 06:08	01/21/25 17:27	1
Butachlor	<0.049		0.049	ug/L		01/21/25 06:08	01/21/25 17:27	1
Butylbenzylphthalate	<0.49		0.49	ug/L		01/21/25 06:08	01/21/25 17:27	1
Chlorobenzilate	<0.098		0.098	ug/L		01/21/25 06:08	01/21/25 17:27	1
Chloroneb	<0.098		0.098	ug/L		01/21/25 06:08	01/21/25 17:27	1
Chlorothalonil (Draconil, Bravo)	<0.098		0.098	ug/L		01/21/25 06:08	01/21/25 17:27	1
Chlorpyrifos	<0.049		0.049	ug/L		01/21/25 06:08	01/21/25 17:27	1
Chrysene	<0.020		0.020	ug/L		01/21/25 06:08	01/21/25 17:27	1
delta-BHC	<0.098		0.098	ug/L		01/21/25 06:08	01/21/25 17:27	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		01/21/25 06:08	01/21/25 17:27	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		01/21/25 06:08	01/21/25 17:27	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		01/21/25 06:08	01/21/25 17:27	1
Dieldrin	0.029		0.0098	ug/L		01/21/25 06:08	01/21/25 17:27	1
Diethylphthalate	<0.49		0.49	ug/L		01/21/25 06:08	01/21/25 17:27	1
Dimethylphthalate	<0.49		0.49	ug/L		01/21/25 06:08	01/21/25 17:27	1
Di-n-butyl phthalate	<0.98		0.98	ug/L		01/21/25 06:08	01/21/25 17:27	1
Di-n-octyl phthalate	<0.098		0.098	ug/L		01/21/25 06:08	01/21/25 17:27	1
Endosulfan I (Alpha)	<0.098		0.098	ug/L		01/21/25 06:08	01/21/25 17:27	1
Endosulfan II (Beta)	<0.098		0.098	ug/L		01/21/25 06:08	01/21/25 17:27	1
Endosulfan sulfate	<0.098		0.098	ug/L		01/21/25 06:08	01/21/25 17:27	1
Endrin	<0.0098		0.0098	ug/L		01/21/25 06:08	01/21/25 17:27	1
Endrin aldehyde	<0.098		0.098	ug/L		01/21/25 06:08	01/21/25 17:27	1
EPTC	<0.098		0.098	ug/L		01/21/25 06:08	01/21/25 17:27	1
Fluoranthene	<0.098		0.098	ug/L		01/21/25 06:08	01/21/25 17:27	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-130962-1
SDG: Weekly

Client Sample ID: KAAMILO WELLS

Lab Sample ID: 380-130962-2

Date Collected: 01/14/25 10:10

Matrix: Water

Date Received: 01/17/25 10:28

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		01/21/25 06:08	01/21/25 17:27	1
gamma-Chlordane	<0.049		0.049	ug/L		01/21/25 06:08	01/21/25 17:27	1
Heptachlor	<0.0098		0.0098	ug/L		01/21/25 06:08	01/21/25 17:27	1
Heptachlor epoxide (isomer B)	<0.0098		0.0098	ug/L		01/21/25 06:08	01/21/25 17:27	1
Hexachlorobenzene	<0.049		0.049	ug/L		01/21/25 06:08	01/21/25 17:27	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		01/21/25 06:08	01/21/25 17:27	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		01/21/25 06:08	01/21/25 17:27	1
Isophorone	<0.098		0.098	ug/L		01/21/25 06:08	01/21/25 17:27	1
Lindane	<0.0098		0.0098	ug/L		01/21/25 06:08	01/21/25 17:27	1
Malathion	<0.098		0.098	ug/L		01/21/25 06:08	01/21/25 17:27	1
Methoxychlor	<0.049		0.049	ug/L		01/21/25 06:08	01/21/25 17:27	1
Metolachlor	<0.049		0.049	ug/L		01/21/25 06:08	01/21/25 17:27	1
Molinate	<0.098		0.098	ug/L		01/21/25 06:08	01/21/25 17:27	1
Naphthalene	<0.098		0.098	ug/L		01/21/25 06:08	01/21/25 17:27	1
Parathion	<0.098		0.098	ug/L		01/21/25 06:08	01/21/25 17:27	1
Pendimethalin (Penoxaline)	<0.098		0.098	ug/L		01/21/25 06:08	01/21/25 17:27	1
Phenanthrene	<0.039		0.039	ug/L		01/21/25 06:08	01/21/25 17:27	1
Propachlor	<0.049		0.049	ug/L		01/21/25 06:08	01/21/25 17:27	1
Pyrene	<0.049		0.049	ug/L		01/21/25 06:08	01/21/25 17:27	1
Simazine	<0.049		0.049	ug/L		01/21/25 06:08	01/21/25 17:27	1
Terbacil	<0.098		0.098	ug/L		01/21/25 06:08	01/21/25 17:27	1
Terbutylazine	<0.098		0.098	ug/L		01/21/25 06:08	01/21/25 17:27	1
Thiobencarb	<0.098		0.098	ug/L		01/21/25 06:08	01/21/25 17:27	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		01/21/25 06:08	01/21/25 17:27	1
trans-Nonachlor	<0.049		0.049	ug/L		01/21/25 06:08	01/21/25 17:27	1
Trifluralin	<0.098		0.098	ug/L		01/21/25 06:08	01/21/25 17:27	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	01/21/25 06:08	01/21/25 17:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	98		70 - 130	01/21/25 06:08	01/21/25 17:27	1
Perylene-d12	92		70 - 130	01/21/25 06:08	01/21/25 17:27	1
Triphenylphosphate	104		70 - 130	01/21/25 06:08	01/21/25 17:27	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.20		0.20	ug/L		01/20/25 13:18	01/29/25 18:39	1
2-Methylnaphthalene	<0.20		0.20	ug/L		01/20/25 13:18	01/29/25 18:39	1
Acenaphthene	<0.20		0.20	ug/L		01/20/25 13:18	01/29/25 18:39	1
Acenaphthylene	<0.20		0.20	ug/L		01/20/25 13:18	01/29/25 18:39	1
Anthracene	<0.20		0.20	ug/L		01/20/25 13:18	01/29/25 18:39	1
Benzo[a]anthracene	<0.20		0.20	ug/L		01/20/25 13:18	01/29/25 18:39	1
Benzo[a]pyrene	<0.20		0.20	ug/L		01/20/25 13:18	01/29/25 18:39	1
Benzo[b]fluoranthene	<0.20		0.20	ug/L		01/20/25 13:18	01/29/25 18:39	1
Benzo[g,h,i]perylene	<0.20		0.20	ug/L		01/20/25 13:18	01/29/25 18:39	1
Benzo[k]fluoranthene	<0.20		0.20	ug/L		01/20/25 13:18	01/29/25 18:39	1
Chrysene	<0.20		0.20	ug/L		01/20/25 13:18	01/29/25 18:39	1
Dibenz(a,h)anthracene	<0.20		0.20	ug/L		01/20/25 13:18	01/29/25 18:39	1
Fluoranthene	<0.20		0.20	ug/L		01/20/25 13:18	01/29/25 18:39	1

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Client Sample Results

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

Job ID: 380-130962-1
SDG: Weekly

Client Sample ID: KAAMILO WELLS

Lab Sample ID: 380-130962-2

Date Collected: 01/14/25 10:10

Matrix: Water

Date Received: 01/17/25 10:28

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	<0.20		0.20	ug/L		01/20/25 13:18	01/29/25 18:39	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20	ug/L		01/20/25 13:18	01/29/25 18:39	1
Naphthalene	<0.20		0.20	ug/L		01/20/25 13:18	01/29/25 18:39	1
Phenanthrene	<0.20		0.20	ug/L		01/20/25 13:18	01/29/25 18:39	1
Pyrene	<0.20		0.20	ug/L		01/20/25 13:18	01/29/25 18:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	80		28 - 127	01/20/25 13:18	01/29/25 18:39	1
2-Fluorobiphenyl (Surr)	61		31 - 120	01/20/25 13:18	01/29/25 18:39	1
2-Fluorophenol (Surr)	43		17 - 120	01/20/25 13:18	01/29/25 18:39	1
Nitrobenzene-d5 (Surr)	67		27 - 120	01/20/25 13:18	01/29/25 18:39	1
Phenol-d6 (Surr)	28		10 - 120	01/20/25 13:18	01/29/25 18:39	1
p-Terphenyl-d14 (Surr)	68		45 - 120	01/20/25 13:18	01/29/25 18:39	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
2-Pentenal, (E)-	6.4	T J N	ug/L		2.76	1576-87-0	01/20/25 13:18	01/27/25 15:38	1
1-Heptene, 4-methyl-	5.2	T J N	ug/L		2.85	13151-05-8	01/20/25 13:18	01/27/25 15:38	1
Cyclohexane, 1-methyl-2-propyl-	5.6	T J N	ug/L		2.98	4291-79-6	01/20/25 13:18	01/27/25 15:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	90		33 - 139	01/20/25 13:18	01/27/25 15:38	1
2-Fluorobiphenyl (Surr)	59		33 - 126	01/20/25 13:18	01/27/25 15:38	1
2-Fluorophenol (Surr)	51		12 - 120	01/20/25 13:18	01/27/25 15:38	1
Nitrobenzene-d5 (Surr)	67		36 - 120	01/20/25 13:18	01/27/25 15:38	1
Phenol-d6 (Surr)	28		10 - 120	01/20/25 13:18	01/27/25 15:38	1
p-Terphenyl-d14 (Surr)	67		47 - 131	01/20/25 13:18	01/27/25 15:38	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			01/22/25 17:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		38 - 134		01/22/25 17:35	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		01/20/25 15:09	01/28/25 02:59	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		01/20/25 15:09	01/28/25 02:59	1
C8-C18	<25		25	ug/L		01/20/25 15:09	01/28/25 02:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	85		60 - 130	01/20/25 15:09	01/28/25 02:59	1

Client Sample ID: TB HALAWA WELLS P1

Lab Sample ID: 380-130962-3

Date Collected: 01/14/25 09:40

Matrix: Water

Date Received: 01/17/25 10:28

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			01/22/25 21:25	1

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Client Sample Results

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

Job ID: 380-130962-1
 SDG: Weekly

Client Sample ID: TB HALAWA WELLS P1

Lab Sample ID: 380-130962-3

Date Collected: 01/14/25 09:40

Matrix: Water

Date Received: 01/17/25 10:28

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		38 - 134		01/22/25 21:25	1

Client Sample ID: TB KAAMILO WELLS

Lab Sample ID: 380-130962-4

Date Collected: 01/14/25 10:10

Matrix: Water

Date Received: 01/17/25 10:28

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			01/22/25 21:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		38 - 134		01/22/25 21:50	1



Action Limit Summary

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

Job ID: 380-130962-1
SDG: Weekly

Client Sample ID: HALAWA WELLS P1

Lab Sample ID: 380-130962-1

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	<0.050		ug/L	2	0.050	525.2	Total/NA
Atrazine	<0.050		ug/L	3	0.050	525.2	Total/NA
Benzo[a]pyrene	<0.020		ug/L	0.2	0.020	525.2	Total/NA
Bis(2-ethylhexyl) phthalate	<0.59		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)	0.012		ug/L	0.2	0.0099	525.2	Total/NA
Hexachlorobenzene	<0.050		ug/L	1	0.050	525.2	Total/NA
Hexachlorocyclopentadiene	<0.050		ug/L	50	0.050	525.2	Total/NA
Lindane	<0.0099		ug/L	0.2	0.0099	525.2	Total/NA
Methoxychlor	<0.050		ug/L	40	0.050	525.2	Total/NA
Simazine	<0.050		ug/L	4	0.050	525.2	Total/NA
Benzo[a]pyrene	<0.19		ug/L	0.2	0.19	625.1 SIM	Total/NA

Client Sample ID: KAAMILO WELLS

Lab Sample ID: 380-130962-2

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	<0.20		ug/L	0.2	0.20	625.1 SIM	Total/NA

Surrogate Summary

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

Job ID: 380-130962-1
SDG: Weekly

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)
380-130962-1	HALAWA WELLS P1	98	95	103
380-130962-2	KAAMILO WELLS	98	92	104
380-131022-AC-1-A MS	Matrix Spike	99	96	109
380-131022-AD-1-A MSD	Matrix Spike Duplicate	98	97	110
LCS 380-129273/23-A	Lab Control Sample	99	92	110
MB 380-129273/21-A	Method Blank	98	88	103
MRL 380-129273/22-A	Lab Control Sample	99	85	102

Surrogate Legend

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

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)
380-130962-1	HALAWA WELLS P1	99	72	56	80	33	75
380-130962-2	KAAMILO WELLS	90	59	51	67	28	67
MB 570-524601/1-A	Method Blank	86	54	51	63	31	65

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)
380-130962-1	HALAWA WELLS P1	88	79	51	79	31	77
380-130962-2	KAAMILO WELLS	80	61	43	67	28	68
LCS 570-524601/2-A	Lab Control Sample	84	69	54	64	37	79
LCSD 570-524601/3-A	Lab Control Sample Dup	83	76	59	66	39	82
MB 570-524601/1-A	Method Blank	91	57	44	62	28	68

Surrogate Legend

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

Surrogate Summary

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

Job ID: 380-130962-1
 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)
380-130371-C-3 MS	Matrix Spike	101
380-130371-C-3 MSD	Matrix Spike Duplicate	100
380-130962-1	HALAWA WELLS P1	100
380-130962-2	KAAMILO WELLS	99
380-130962-3	TB HALAWA WELLS P1	97
380-130962-4	TB KAAMILO WELLS	97
LCS 570-525353/4	Lab Control Sample	101
LCSD 570-525353/5	Lab Control Sample Dup	104
MB 570-525353/6	Method Blank	104
MRL 570-525353/3	Lab Control Sample	99

Surrogate Legend

BFB = 4-Bromofluorobenzene (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)
380-130371-B-3-A MS	Matrix Spike	112
380-130371-B-3-B MSD	Matrix Spike Duplicate	89
380-130962-1	HALAWA WELLS P1	71
380-130962-2	KAAMILO WELLS	85
LCS 570-524661/2-A	Lab Control Sample	86
LCSD 570-524661/3-A	Lab Control Sample Dup	88
MB 570-524661/1-A	Method Blank	85
MRL 570-524661/4-A	Lab Control Sample	90

Surrogate Legend

OTCSN = n-Octacosane (Surr)

QC Sample Results

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

Job ID: 380-130962-1
 SDG: Weekly

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

Lab Sample ID: MB 380-129273/21-A
Matrix: Water
Analysis Batch: 129391

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 129273

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.099		0.099	ug/L		01/21/25 06:08	01/21/25 16:26	1
2,4'-DDD	<0.099		0.099	ug/L		01/21/25 06:08	01/21/25 16:26	1
2,4'-DDE	<0.099		0.099	ug/L		01/21/25 06:08	01/21/25 16:26	1
2,4'-DDT	<0.099		0.099	ug/L		01/21/25 06:08	01/21/25 16:26	1
2,4-Dinitrotoluene	<0.099		0.099	ug/L		01/21/25 06:08	01/21/25 16:26	1
2,6-Dinitrotoluene	<0.099		0.099	ug/L		01/21/25 06:08	01/21/25 16:26	1
2-Methylnaphthalene	<0.099		0.099	ug/L		01/21/25 06:08	01/21/25 16:26	1
4,4'-DDD	<0.099		0.099	ug/L		01/21/25 06:08	01/21/25 16:26	1
4,4'-DDE	<0.099		0.099	ug/L		01/21/25 06:08	01/21/25 16:26	1
4,4'-DDT	<0.099		0.099	ug/L		01/21/25 06:08	01/21/25 16:26	1
Acenaphthene	<0.099		0.099	ug/L		01/21/25 06:08	01/21/25 16:26	1
Acenaphthylene	<0.099		0.099	ug/L		01/21/25 06:08	01/21/25 16:26	1
Acetochlor	<0.099		0.099	ug/L		01/21/25 06:08	01/21/25 16:26	1
Alachlor	<0.050		0.050	ug/L		01/21/25 06:08	01/21/25 16:26	1
alpha-BHC	<0.099		0.099	ug/L		01/21/25 06:08	01/21/25 16:26	1
alpha-Chlordane	<0.050		0.050	ug/L		01/21/25 06:08	01/21/25 16:26	1
Anthracene	<0.020		0.020	ug/L		01/21/25 06:08	01/21/25 16:26	1
Atrazine	<0.050		0.050	ug/L		01/21/25 06:08	01/21/25 16:26	1
Benz(a)anthracene	<0.050		0.050	ug/L		01/21/25 06:08	01/21/25 16:26	1
Benzo[a]pyrene	<0.020		0.020	ug/L		01/21/25 06:08	01/21/25 16:26	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		01/21/25 06:08	01/21/25 16:26	1
Benzo[g,h,i]perylene	<0.050		0.050	ug/L		01/21/25 06:08	01/21/25 16:26	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		01/21/25 06:08	01/21/25 16:26	1
beta-BHC	<0.099		0.099	ug/L		01/21/25 06:08	01/21/25 16:26	1
Bis(2-ethylhexyl) phthalate	<0.60		0.60	ug/L		01/21/25 06:08	01/21/25 16:26	1
Bromacil	<0.099		0.099	ug/L		01/21/25 06:08	01/21/25 16:26	1
Butachlor	<0.050		0.050	ug/L		01/21/25 06:08	01/21/25 16:26	1
Butylbenzylphthalate	<0.50		0.50	ug/L		01/21/25 06:08	01/21/25 16:26	1
Chlorobenzilate	<0.099		0.099	ug/L		01/21/25 06:08	01/21/25 16:26	1
Chloroneb	<0.099		0.099	ug/L		01/21/25 06:08	01/21/25 16:26	1
Chlorothalonil (Draconil, Bravo)	<0.099		0.099	ug/L		01/21/25 06:08	01/21/25 16:26	1
Chlorpyrifos	<0.050		0.050	ug/L		01/21/25 06:08	01/21/25 16:26	1
Chrysene	<0.020		0.020	ug/L		01/21/25 06:08	01/21/25 16:26	1
delta-BHC	<0.099		0.099	ug/L		01/21/25 06:08	01/21/25 16:26	1
Di(2-ethylhexyl)adipate	<0.60		0.60	ug/L		01/21/25 06:08	01/21/25 16:26	1
Dibenz(a,h)anthracene	<0.050		0.050	ug/L		01/21/25 06:08	01/21/25 16:26	1
Diclorvos (DDVP)	<0.050		0.050	ug/L		01/21/25 06:08	01/21/25 16:26	1
Dieldrin	<0.0099		0.0099	ug/L		01/21/25 06:08	01/21/25 16:26	1
Diethylphthalate	<0.50		0.50	ug/L		01/21/25 06:08	01/21/25 16:26	1
Dimethylphthalate	<0.50		0.50	ug/L		01/21/25 06:08	01/21/25 16:26	1
Di-n-butyl phthalate	<0.99		0.99	ug/L		01/21/25 06:08	01/21/25 16:26	1
Di-n-octyl phthalate	<0.099		0.099	ug/L		01/21/25 06:08	01/21/25 16:26	1
Endosulfan I (Alpha)	<0.099		0.099	ug/L		01/21/25 06:08	01/21/25 16:26	1
Endosulfan II (Beta)	<0.099		0.099	ug/L		01/21/25 06:08	01/21/25 16:26	1
Endosulfan sulfate	<0.099		0.099	ug/L		01/21/25 06:08	01/21/25 16:26	1
Endrin	<0.0099		0.0099	ug/L		01/21/25 06:08	01/21/25 16:26	1
Endrin aldehyde	<0.099		0.099	ug/L		01/21/25 06:08	01/21/25 16:26	1
EPTC	<0.099		0.099	ug/L		01/21/25 06:08	01/21/25 16:26	1

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QC Sample Results

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

Job ID: 380-130962-1
SDG: Weekly

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

Lab Sample ID: MB 380-129273/21-A
Matrix: Water
Analysis Batch: 129391

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 129273

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.099		0.099	ug/L		01/21/25 06:08	01/21/25 16:26	1
Fluorene	<0.050		0.050	ug/L		01/21/25 06:08	01/21/25 16:26	1
gamma-Chlordane	<0.050		0.050	ug/L		01/21/25 06:08	01/21/25 16:26	1
Heptachlor	<0.0099		0.0099	ug/L		01/21/25 06:08	01/21/25 16:26	1
Heptachlor epoxide (isomer B)	<0.0099		0.0099	ug/L		01/21/25 06:08	01/21/25 16:26	1
Hexachlorobenzene	<0.050		0.050	ug/L		01/21/25 06:08	01/21/25 16:26	1
Hexachlorocyclopentadiene	<0.050		0.050	ug/L		01/21/25 06:08	01/21/25 16:26	1
Indeno[1,2,3-cd]pyrene	<0.050		0.050	ug/L		01/21/25 06:08	01/21/25 16:26	1
Isophorone	<0.099		0.099	ug/L		01/21/25 06:08	01/21/25 16:26	1
Lindane	<0.0099		0.0099	ug/L		01/21/25 06:08	01/21/25 16:26	1
Malathion	<0.099		0.099	ug/L		01/21/25 06:08	01/21/25 16:26	1
Methoxychlor	<0.050		0.050	ug/L		01/21/25 06:08	01/21/25 16:26	1
Metolachlor	<0.050		0.050	ug/L		01/21/25 06:08	01/21/25 16:26	1
Molinate	<0.099		0.099	ug/L		01/21/25 06:08	01/21/25 16:26	1
Naphthalene	<0.099		0.099	ug/L		01/21/25 06:08	01/21/25 16:26	1
Parathion	<0.099		0.099	ug/L		01/21/25 06:08	01/21/25 16:26	1
Pendimethalin (Penoxaline)	<0.099		0.099	ug/L		01/21/25 06:08	01/21/25 16:26	1
Phenanthrene	<0.040		0.040	ug/L		01/21/25 06:08	01/21/25 16:26	1
Propachlor	<0.050		0.050	ug/L		01/21/25 06:08	01/21/25 16:26	1
Pyrene	<0.050		0.050	ug/L		01/21/25 06:08	01/21/25 16:26	1
Simazine	<0.050		0.050	ug/L		01/21/25 06:08	01/21/25 16:26	1
Terbacil	<0.099		0.099	ug/L		01/21/25 06:08	01/21/25 16:26	1
Terbutylazine	<0.099		0.099	ug/L		01/21/25 06:08	01/21/25 16:26	1
Thiobencarb	<0.099		0.099	ug/L		01/21/25 06:08	01/21/25 16:26	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		01/21/25 06:08	01/21/25 16:26	1
trans-Nonachlor	<0.050		0.050	ug/L		01/21/25 06:08	01/21/25 16:26	1
Trifluralin	<0.099		0.099	ug/L		01/21/25 06:08	01/21/25 16:26	1

<i>Tentatively Identified Compound</i>	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
<i>Unknown</i>	0.511	T J	ug/L		11.21	N/A	01/21/25 06:08	01/21/25 16:26	1

<i>Surrogate</i>	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>2-Nitro-m-xylene</i>	98		70 - 130	01/21/25 06:08	01/21/25 16:26	1
<i>Perylene-d12</i>	88		70 - 130	01/21/25 06:08	01/21/25 16:26	1
<i>Triphenylphosphate</i>	103		70 - 130	01/21/25 06:08	01/21/25 16:26	1

Lab Sample ID: LCS 380-129273/23-A
Matrix: Water
Analysis Batch: 129391

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 129273

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	1.99	1.81		ug/L		91	70 - 130
2,4'-DDD	1.99	2.11		ug/L		106	70 - 130
2,4'-DDE	1.99	2.02		ug/L		102	70 - 130
2,4'-DDT	1.99	2.02		ug/L		102	70 - 130
2,4-Dinitrotoluene	1.99	2.09		ug/L		105	70 - 130
2,6-Dinitrotoluene	1.99	1.97		ug/L		99	70 - 130
2-Methylnaphthalene	1.99	1.80		ug/L		90	70 - 130

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QC Sample Results

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

Job ID: 380-130962-1
SDG: Weekly

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

Lab Sample ID: LCS 380-129273/23-A
Matrix: Water
Analysis Batch: 129391

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 129273

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	1.99	2.12		ug/L		107	70 - 130
4,4'-DDE	1.99	1.98		ug/L		100	70 - 130
4,4'-DDT	1.99	2.07		ug/L		104	70 - 130
Acenaphthene	1.99	1.86		ug/L		94	70 - 130
Acenaphthylene	1.99	1.83		ug/L		92	70 - 130
Acetochlor	1.99	2.07		ug/L		104	70 - 130
Alachlor	1.99	1.99		ug/L		100	70 - 130
alpha-BHC	1.99	1.96		ug/L		99	70 - 130
alpha-Chlordane	1.99	2.06		ug/L		104	70 - 130
Anthracene	1.99	1.73		ug/L		87	70 - 130
Atrazine	1.99	2.05		ug/L		103	70 - 130
Benz(a)anthracene	1.99	1.97		ug/L		99	70 - 130
Benzo[a]pyrene	1.99	1.79		ug/L		90	70 - 130
Benzo[b]fluoranthene	1.99	1.88		ug/L		95	70 - 130
Benzo[g,h,i]perylene	1.99	1.88		ug/L		95	70 - 130
Benzo[k]fluoranthene	1.99	1.94		ug/L		98	70 - 130
beta-BHC	1.99	2.14		ug/L		108	70 - 130
Bis(2-ethylhexyl) phthalate	1.99	1.89		ug/L		95	70 - 130
Bromacil	1.99	2.10		ug/L		106	70 - 130
Butachlor	1.99	2.10		ug/L		106	70 - 130
Butylbenzylphthalate	1.99	2.11		ug/L		106	70 - 130
Chlorobenzilate	1.99	1.87		ug/L		94	70 - 130
Chloroneb	1.99	2.07		ug/L		104	70 - 130
Chlorothalonil (Draconil, Bravo)	1.99	2.03		ug/L		102	70 - 130
Chlorpyrifos	1.99	2.04		ug/L		103	70 - 130
Chrysene	1.99	1.94		ug/L		97	70 - 130
delta-BHC	1.99	2.00		ug/L		101	70 - 130
Di(2-ethylhexyl)adipate	1.99	2.01		ug/L		101	70 - 130
Dibenz(a,h)anthracene	1.99	1.88		ug/L		95	70 - 130
Diclorvos (DDVP)	1.99	1.80		ug/L		91	70 - 130
Dieldrin	1.99	1.90		ug/L		95	70 - 130
Diethylphthalate	1.99	2.03		ug/L		102	70 - 130
Dimethylphthalate	1.99	1.96		ug/L		99	70 - 130
Di-n-butyl phthalate	3.97	4.07		ug/L		103	70 - 130
Di-n-octyl phthalate	1.99	1.71		ug/L		86	70 - 130
Endosulfan I (Alpha)	1.99	1.95		ug/L		98	70 - 130
Endosulfan II (Beta)	1.99	2.11		ug/L		106	70 - 130
Endosulfan sulfate	1.99	2.01		ug/L		101	70 - 130
Endrin	1.99	2.32		ug/L		117	70 - 130
Endrin aldehyde	1.99	1.92		ug/L		97	60 - 130
EPTC	1.99	1.84		ug/L		93	70 - 130
Fluoranthene	1.99	2.06		ug/L		104	70 - 130
Fluorene	1.99	1.95		ug/L		98	70 - 130
gamma-Chlordane	1.99	2.00		ug/L		101	70 - 130
Heptachlor	1.99	2.00		ug/L		101	70 - 130
Heptachlor epoxide (isomer B)	1.99	2.01		ug/L		101	70 - 130
Hexachlorobenzene	1.99	1.89		ug/L		95	70 - 130
Hexachlorocyclopentadiene	1.99	1.97		ug/L		99	70 - 130
Indeno[1,2,3-cd]pyrene	1.99	1.76		ug/L		89	70 - 130

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QC Sample Results

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

Job ID: 380-130962-1
SDG: Weekly

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

Lab Sample ID: LCS 380-129273/23-A
Matrix: Water
Analysis Batch: 129391

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 129273

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Isophorone	1.99	1.61		ug/L		81	70 - 130
Lindane	1.99	2.04		ug/L		103	70 - 130
Malathion	1.99	2.07		ug/L		104	70 - 130
Methoxychlor	1.99	1.94		ug/L		98	70 - 130
Metolachlor	1.99	2.02		ug/L		102	70 - 130
Molinate	1.99	1.95		ug/L		98	70 - 130
Naphthalene	1.99	1.81		ug/L		91	70 - 130
Parathion	1.99	2.13		ug/L		107	70 - 130
Pendimethalin (Penoxaline)	1.99	2.09		ug/L		105	70 - 130
Phenanthrene	1.99	1.80		ug/L		91	70 - 130
Propachlor	1.99	2.08		ug/L		105	70 - 130
Pyrene	1.99	2.04		ug/L		103	70 - 130
Simazine	1.99	1.98		ug/L		100	70 - 130
Terbacil	1.99	2.09		ug/L		105	70 - 130
Terbutylazine	1.99	2.30		ug/L		116	70 - 130
Thiobencarb	1.99	2.08		ug/L		105	70 - 130
trans-Nonachlor	1.99	1.95		ug/L		98	70 - 130
Trifluralin	1.99	1.87		ug/L		94	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Nitro-m-xylene	99		70 - 130
Perylene-d12	92		70 - 130
Triphenylphosphate	110		70 - 130

Lab Sample ID: MRL 380-129273/22-A
Matrix: Water
Analysis Batch: 129391

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 129273

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	0.0993	0.106		ug/L		107	50 - 150
2,4'-DDD	0.0993	0.0932	J	ug/L		94	50 - 150
2,4'-DDE	0.0993	0.0993		ug/L		100	50 - 150
2,4'-DDT	0.0993	0.112		ug/L		113	50 - 150
2,4-Dinitrotoluene	0.0993	0.119		ug/L		120	50 - 150
2,6-Dinitrotoluene	0.0993	0.131		ug/L		132	50 - 150
2-Methylnaphthalene	0.0993	0.101		ug/L		102	50 - 150
4,4'-DDD	0.0993	0.107		ug/L		107	50 - 150
4,4'-DDE	0.0993	0.0948	J	ug/L		96	50 - 150
4,4'-DDT	0.0993	0.114		ug/L		115	50 - 150
Acenaphthene	0.0993	0.0921	J	ug/L		93	50 - 150
Acenaphthylene	0.0993	0.0888	J	ug/L		89	50 - 150
Acetochlor	0.0993	0.120		ug/L		120	50 - 150
Alachlor	0.0496	0.0657		ug/L		132	50 - 150
alpha-BHC	0.0993	0.106		ug/L		107	50 - 150
alpha-Chlordane	0.0248	<0.029		ug/L		91	50 - 150
Anthracene	0.0199	0.0201		ug/L		101	50 - 150
Atrazine	0.0496	0.0646		ug/L		130	50 - 150
Benz(a)anthracene	0.0496	0.0521		ug/L		105	50 - 150

QC Sample Results

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

Job ID: 380-130962-1
SDG: Weekly

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

Lab Sample ID: MRL 380-129273/22-A
Matrix: Water
Analysis Batch: 129391

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 129273

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Benzo[a]pyrene	0.0199	0.0154	J	ug/L		77	50 - 150
Benzo[b]fluoranthene	0.0199	0.0170	J	ug/L		86	50 - 150
Benzo[g,h,i]perylene	0.0496	0.0415	J	ug/L		84	50 - 150
Benzo[k]fluoranthene	0.0199	0.0179	J	ug/L		90	50 - 150
beta-BHC	0.0993	0.120		ug/L		121	50 - 150
Bis(2-ethylhexyl) phthalate	0.596	0.488	J	ug/L		82	50 - 150
Bromacil	0.0993	0.107		ug/L		108	50 - 150
Butachlor	0.0496	0.0687		ug/L		138	50 - 150
Butylbenzylphthalate	0.496	0.530		ug/L		107	50 - 150
Chlorobenzilate	0.0993	0.105		ug/L		106	50 - 150
Chloroneb	0.0993	0.0791	J	ug/L		80	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0993	0.0921	J	ug/L		93	50 - 150
Chlorpyrifos	0.0496	0.0482	J	ug/L		97	50 - 150
Chrysene	0.0199	0.0208		ug/L		105	50 - 150
delta-BHC	0.0993	0.108		ug/L		109	50 - 150
Di(2-ethylhexyl)adipate	0.596	0.559	J	ug/L		94	50 - 150
Dibenz(a,h)anthracene	0.0496	0.0402	J	ug/L		81	50 - 150
Diclorvos (DDVP)	0.0496	0.0554		ug/L		112	50 - 150
Dieldrin	0.00993	0.0124		ug/L		124	50 - 150
Diethylphthalate	0.496	0.525		ug/L		106	50 - 150
Dimethylphthalate	0.496	0.521		ug/L		105	50 - 150
Di-n-butyl phthalate	0.496	0.513	J	ug/L		103	49 - 243
Di-n-octyl phthalate	0.0993	0.0787	J	ug/L		79	50 - 150
Endosulfan I (Alpha)	0.0993	0.0858	J	ug/L		86	50 - 150
Endosulfan II (Beta)	0.0993	0.121		ug/L		122	50 - 150
Endosulfan sulfate	0.0993	0.102		ug/L		103	50 - 150
Endrin	0.00993	0.0135		ug/L		136	50 - 150
Endrin aldehyde	0.0993	0.0975	J	ug/L		98	50 - 150
EPTC	0.0993	0.0907	J	ug/L		91	50 - 150
Fluoranthene	0.0993	0.0991		ug/L		100	50 - 150
Fluorene	0.0496	0.0507		ug/L		102	50 - 150
gamma-Chlordane	0.0248	0.0229	J	ug/L		92	50 - 150
Heptachlor	0.00993	0.00897	J	ug/L		90	50 - 150
Heptachlor epoxide (isomer B)	0.00993	0.0109		ug/L		110	50 - 150
Hexachlorobenzene	0.0496	0.0471	J	ug/L		95	50 - 150
Hexachlorocyclopentadiene	0.0496	0.0463	J	ug/L		93	50 - 150
Indeno[1,2,3-cd]pyrene	0.0496	0.0408	J	ug/L		82	50 - 150
Isophorone	0.0993	0.102		ug/L		103	50 - 150
Lindane	0.00993	0.00979	J	ug/L		99	50 - 150
Malathion	0.0993	0.116		ug/L		117	50 - 150
Methoxychlor	0.0496	0.0666		ug/L		134	50 - 150
Metolachlor	0.0496	0.0676		ug/L		136	50 - 150
Molinate	0.0993	0.102		ug/L		103	50 - 150
Naphthalene	0.0993	0.0967	J	ug/L		97	50 - 150
Parathion	0.0993	0.0997		ug/L		100	50 - 150
Pendimethalin (Penoxaline)	0.0993	0.104		ug/L		105	50 - 150
Phenanthrene	0.0397	0.0420		ug/L		106	50 - 150
Propachlor	0.0496	0.0532		ug/L		107	50 - 150
Pyrene	0.0496	0.0480	J	ug/L		97	50 - 150

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-130962-1
SDG: Weekly

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

Lab Sample ID: MRL 380-129273/22-A
Matrix: Water
Analysis Batch: 129391

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 129273

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Simazine	0.0496	0.0518		ug/L		104	50 - 150
Terbacil	0.0993	0.111		ug/L		112	50 - 150
Terbutylazine	0.0993	0.105		ug/L		106	50 - 150
Thiobencarb	0.0993	0.0996		ug/L		100	50 - 150
trans-Nonachlor	0.0248	<0.026		ug/L		96	50 - 150
Trifluralin	0.0993	0.105		ug/L		106	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
2-Nitro-m-xylene	99		70 - 130
Perylene-d12	85		70 - 130
Triphenylphosphate	102		70 - 130

Lab Sample ID: 380-131022-AC-1-A MS
Matrix: Water
Analysis Batch: 129391

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 129273

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.099		1.94	1.84		ug/L		95	70 - 130
2,4'-DDD	<0.099		1.94	2.16		ug/L		111	70 - 130
2,4'-DDE	<0.099		1.94	2.05		ug/L		106	70 - 130
2,4'-DDT	<0.099		1.94	2.09		ug/L		108	70 - 130
2,4-Dinitrotoluene	<0.099		1.94	2.31		ug/L		119	70 - 130
2,6-Dinitrotoluene	<0.099		1.94	2.16		ug/L		111	70 - 130
2-Methylnaphthalene	<0.099		1.94	1.83		ug/L		94	70 - 130
4,4'-DDD	<0.099		1.94	2.17		ug/L		112	70 - 130
4,4'-DDE	<0.099		1.94	2.01		ug/L		104	70 - 130
4,4'-DDT	<0.099		1.94	2.16		ug/L		111	70 - 130
Acenaphthene	<0.099		1.94	1.92		ug/L		99	70 - 130
Acenaphthylene	<0.099		1.94	1.90		ug/L		98	70 - 130
Acetochlor	<0.099		1.94	2.11		ug/L		108	70 - 130
Alachlor	<0.049		1.94	2.06		ug/L		106	70 - 130
alpha-BHC	<0.099		1.94	2.03		ug/L		105	70 - 130
alpha-Chlordane	<0.049		1.94	2.14		ug/L		110	70 - 130
Anthracene	<0.020		1.94	1.43		ug/L		74	70 - 130
Atrazine	<0.049		1.94	2.11		ug/L		109	70 - 130
Benz(a)anthracene	<0.049		1.94	1.96		ug/L		101	70 - 130
Benzo[a]pyrene	<0.020		1.94	1.73		ug/L		89	70 - 130
Benzo[b]fluoranthene	<0.020		1.94	1.97		ug/L		101	70 - 130
Benzo[g,h,i]perylene	<0.049		1.94	1.93		ug/L		100	70 - 130
Benzo[k]fluoranthene	<0.020		1.94	2.02		ug/L		104	70 - 130
beta-BHC	<0.099		1.94	2.17		ug/L		112	70 - 130
Bis(2-ethylhexyl) phthalate	<0.59		1.94	1.79		ug/L		92	70 - 130
Bromacil	<0.099		1.94	2.28		ug/L		118	70 - 130
Butachlor	<0.049		1.94	2.13		ug/L		110	70 - 130
Butylbenzylphthalate	<0.49		1.94	2.12		ug/L		109	70 - 130
Chlorobenzilate	<0.099		1.94	1.90		ug/L		98	70 - 130
Chloroneb	<0.099		1.94	2.10		ug/L		108	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.099		1.94	2.14		ug/L		110	70 - 130

QC Sample Results

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

Job ID: 380-130962-1
SDG: Weekly

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

Lab Sample ID: 380-131022-AC-1-A MS
Matrix: Water
Analysis Batch: 129391

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 129273

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chlorpyrifos	<0.049		1.94	2.12		ug/L		109	70 - 130
Chrysene	<0.020		1.94	1.98		ug/L		102	70 - 130
delta-BHC	<0.099		1.94	2.04		ug/L		105	70 - 130
Di(2-ethylhexyl)adipate	<0.59		1.94	1.95		ug/L		101	70 - 130
Dibenz(a,h)anthracene	<0.049		1.94	1.91		ug/L		99	70 - 130
Diclorvos (DDVP)	<0.049		1.94	1.91		ug/L		99	70 - 130
Dieldrin	<0.0099		1.94	1.96		ug/L		101	70 - 130
Diethylphthalate	<0.49		1.94	2.05		ug/L		106	70 - 130
Dimethylphthalate	<0.49		1.94	1.99		ug/L		103	70 - 130
Di-n-butyl phthalate	<0.99		3.88	4.16		ug/L		107	70 - 130
Di-n-octyl phthalate	<0.099		1.94	1.60		ug/L		82	70 - 130
Endosulfan I (Alpha)	<0.099		1.94	2.01		ug/L		104	70 - 130
Endosulfan II (Beta)	<0.099		1.94	2.13		ug/L		110	70 - 130
Endosulfan sulfate	<0.099		1.94	2.11		ug/L		109	70 - 130
Endrin	<0.0099		1.94	2.38		ug/L		123	70 - 130
Endrin aldehyde	<0.099		1.94	1.71		ug/L		88	60 - 130
EPTC	<0.099		1.94	1.89		ug/L		97	70 - 130
Fluoranthene	<0.099		1.94	2.12		ug/L		109	70 - 130
Fluorene	<0.049		1.94	1.97		ug/L		102	70 - 130
gamma-Chlordane	<0.049		1.94	2.07		ug/L		106	70 - 130
Heptachlor	<0.0099		1.94	2.05		ug/L		106	70 - 130
Heptachlor epoxide (isomer B)	<0.0099		1.94	2.07		ug/L		107	70 - 130
Hexachlorobenzene	<0.049		1.94	1.93		ug/L		99	70 - 130
Hexachlorocyclopentadiene	<0.049		1.94	2.05		ug/L		106	70 - 130
Indeno[1,2,3-cd]pyrene	<0.049		1.94	1.94		ug/L		100	70 - 130
Isophorone	<0.099		1.94	1.67		ug/L		86	70 - 130
Lindane	<0.0099		1.94	2.06		ug/L		106	70 - 130
Malathion	<0.099		1.94	2.12		ug/L		109	70 - 130
Methoxychlor	<0.049		1.94	2.06		ug/L		106	70 - 130
Metolachlor	<0.049		1.94	2.09		ug/L		108	70 - 130
Molinate	<0.099		1.94	2.00		ug/L		103	70 - 130
Naphthalene	<0.099		1.94	1.87		ug/L		96	70 - 130
Parathion	<0.099		1.94	2.25		ug/L		116	70 - 130
Pendimethalin (Penoxaline)	<0.099		1.94	2.26		ug/L		117	70 - 130
Phenanthrene	<0.040		1.94	1.83		ug/L		94	70 - 130
Propachlor	<0.049		1.94	2.11		ug/L		109	70 - 130
Pyrene	<0.049		1.94	2.08		ug/L		107	70 - 130
Simazine	<0.049		1.94	2.04		ug/L		105	70 - 130
Terbacil	<0.099		1.94	2.26		ug/L		116	70 - 130
Terbutylazine	<0.099		1.94	2.30		ug/L		118	70 - 130
Thiobencarb	<0.099		1.94	2.11		ug/L		109	70 - 130
trans-Nonachlor	<0.049		1.94	2.04		ug/L		105	70 - 130
Trifluralin	<0.099		1.94	1.99		ug/L		103	70 - 130

Surrogate	MS %Recovery	MS Qualifier	MS Limits
2-Nitro-m-xylene	99		70 - 130
Perylene-d12	96		70 - 130
Triphenylphosphate	109		70 - 130

QC Sample Results

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

Job ID: 380-130962-1
SDG: Weekly

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

Lab Sample ID: 380-131022-AD-1-A MSD

Matrix: Water

Analysis Batch: 129391

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 129273

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		
1-Methylnaphthalene	<0.099		1.96	1.86		ug/L		95	70 - 130	1	20
2,4'-DDD	<0.099		1.96	2.19		ug/L		112	70 - 130	1	20
2,4'-DDE	<0.099		1.96	2.05		ug/L		105	70 - 130	0	20
2,4'-DDT	<0.099		1.96	2.13		ug/L		108	70 - 130	2	20
2,4-Dinitrotoluene	<0.099		1.96	2.32		ug/L		118	70 - 130	1	20
2,6-Dinitrotoluene	<0.099		1.96	2.15		ug/L		109	70 - 130	0	20
2-Methylnaphthalene	<0.099		1.96	1.85		ug/L		94	70 - 130	1	20
4,4'-DDD	<0.099		1.96	2.19		ug/L		112	70 - 130	1	20
4,4'-DDE	<0.099		1.96	2.03		ug/L		104	70 - 130	1	20
4,4'-DDT	<0.099		1.96	2.19		ug/L		112	70 - 130	1	20
Acenaphthene	<0.099		1.96	1.95		ug/L		99	70 - 130	1	20
Acenaphthylene	<0.099		1.96	1.91		ug/L		97	70 - 130	0	20
Acetochlor	<0.099		1.96	2.14		ug/L		109	70 - 130	2	20
Alachlor	<0.049		1.96	2.07		ug/L		105	70 - 130	1	20
alpha-BHC	<0.099		1.96	2.05		ug/L		104	70 - 130	1	20
alpha-Chlordane	<0.049		1.96	2.14		ug/L		109	70 - 130	0	20
Anthracene	<0.020		1.96	1.45		ug/L		74	70 - 130	1	20
Atrazine	<0.049		1.96	2.16		ug/L		110	70 - 130	2	20
Benz(a)anthracene	<0.049		1.96	2.00		ug/L		102	70 - 130	2	20
Benzo[a]pyrene	<0.020		1.96	1.77		ug/L		90	70 - 130	2	20
Benzo[b]fluoranthene	<0.020		1.96	1.98		ug/L		101	70 - 130	1	20
Benzo[g,h,i]perylene	<0.049		1.96	1.96		ug/L		100	70 - 130	1	20
Benzo[k]fluoranthene	<0.020		1.96	2.06		ug/L		105	70 - 130	2	20
beta-BHC	<0.099		1.96	2.23		ug/L		113	70 - 130	3	20
Bis(2-ethylhexyl) phthalate	<0.59		1.96	1.68		ug/L		86	70 - 130	6	20
Bromacil	<0.099		1.96	2.29		ug/L		117	70 - 130	0	20
Butachlor	<0.049		1.96	2.18		ug/L		111	70 - 130	2	20
Butylbenzylphthalate	<0.49		1.96	2.17		ug/L		111	70 - 130	2	20
Chlorobenzilate	<0.099		1.96	1.80		ug/L		92	70 - 130	5	20
Chloroneb	<0.099		1.96	2.17		ug/L		111	70 - 130	3	20
Chlorothalonil (Draconil, Bravo)	<0.099		1.96	2.11		ug/L		108	70 - 130	1	20
Chlorpyrifos	<0.049		1.96	2.12		ug/L		108	70 - 130	0	20
Chrysene	<0.020		1.96	1.99		ug/L		102	70 - 130	1	20
delta-BHC	<0.099		1.96	2.08		ug/L		106	70 - 130	2	20
Di(2-ethylhexyl)adipate	<0.59		1.96	1.86		ug/L		95	70 - 130	5	20
Dibenz(a,h)anthracene	<0.049		1.96	1.92		ug/L		98	70 - 130	0	20
Diclorvos (DDVP)	<0.049		1.96	1.90		ug/L		97	70 - 130	1	20
Dieldrin	<0.0099		1.96	1.97		ug/L		100	70 - 130	1	20
Diethylphthalate	<0.49		1.96	2.08		ug/L		106	70 - 130	1	20
Dimethylphthalate	<0.49		1.96	2.01		ug/L		102	70 - 130	1	20
Di-n-butyl phthalate	<0.99		3.93	4.19		ug/L		107	70 - 130	1	20
Di-n-octyl phthalate	<0.099		1.96	1.47		ug/L		75	70 - 130	8	20
Endosulfan I (Alpha)	<0.099		1.96	2.04		ug/L		104	70 - 130	2	20
Endosulfan II (Beta)	<0.099		1.96	2.09		ug/L		107	70 - 130	2	20
Endosulfan sulfate	<0.099		1.96	2.16		ug/L		110	70 - 130	2	20
Endrin	<0.0099		1.96	2.45		ug/L		125	70 - 130	3	20
Endrin aldehyde	<0.099		1.96	1.76		ug/L		89	60 - 130	2	20
EPTC	<0.099		1.96	1.90		ug/L		97	70 - 130	0	20

QC Sample Results

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

Job ID: 380-130962-1
SDG: Weekly

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

Lab Sample ID: 380-131022-AD-1-A MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 129391

Prep Batch: 129273

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoranthene	<0.099		1.96	2.13		ug/L		109	70 - 130	1	20
Fluorene	<0.049		1.96	2.01		ug/L		102	70 - 130	2	20
gamma-Chlordane	<0.049		1.96	2.06		ug/L		105	70 - 130	0	20
Heptachlor	<0.0099		1.96	2.03		ug/L		103	70 - 130	1	20
Heptachlor epoxide (isomer B)	<0.0099		1.96	2.09		ug/L		107	70 - 130	1	20
Hexachlorobenzene	<0.049		1.96	1.98		ug/L		101	70 - 130	3	20
Hexachlorocyclopentadiene	<0.049		1.96	2.07		ug/L		105	70 - 130	1	20
Indeno[1,2,3-cd]pyrene	<0.049		1.96	1.96		ug/L		100	70 - 130	1	20
Isophorone	<0.099		1.96	1.76		ug/L		90	70 - 130	5	20
Lindane	<0.0099		1.96	2.13		ug/L		108	70 - 130	3	20
Malathion	<0.099		1.96	2.16		ug/L		110	70 - 130	2	20
Methoxychlor	<0.049		1.96	2.06		ug/L		105	70 - 130	0	20
Metolachlor	<0.049		1.96	2.11		ug/L		107	70 - 130	1	20
Molinate	<0.099		1.96	2.01		ug/L		102	70 - 130	0	20
Naphthalene	<0.099		1.96	1.87		ug/L		95	70 - 130	0	20
Parathion	<0.099		1.96	2.27		ug/L		116	70 - 130	1	20
Pendimethalin (Penoxaline)	<0.099		1.96	2.31		ug/L		118	70 - 130	2	20
Phenanthrene	<0.040		1.96	1.84		ug/L		94	70 - 130	1	20
Propachlor	<0.049		1.96	2.14		ug/L		109	70 - 130	1	20
Pyrene	<0.049		1.96	2.13		ug/L		108	70 - 130	2	20
Simazine	<0.049		1.96	2.09		ug/L		107	70 - 130	2	20
Terbacil	<0.099		1.96	2.22		ug/L		113	70 - 130	2	20
Terbutylazine	<0.099		1.96	2.37		ug/L		121	70 - 130	3	20
Thiobencarb	<0.099		1.96	2.14		ug/L		109	70 - 130	1	20
trans-Nonachlor	<0.049		1.96	2.04		ug/L		104	70 - 130	0	20
Trifluralin	<0.099		1.96	2.05		ug/L		104	70 - 130	3	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Nitro-m-xylene	98		70 - 130
Perylene-d12	97		70 - 130
Triphenylphosphate	110		70 - 130

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

Lab Sample ID: MB 570-524601/1-A

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 526704

Prep Batch: 524601

Tentatively Identified Compound	Est. Result	MB MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	01/20/25 13:18	01/27/25 14:51	1

Surrogate	MB MB %Recovery	MB MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	86		33 - 139	01/20/25 13:18	01/27/25 14:51	1
2-Fluorobiphenyl (Surr)	54		33 - 126	01/20/25 13:18	01/27/25 14:51	1
2-Fluorophenol (Surr)	51		12 - 120	01/20/25 13:18	01/27/25 14:51	1
Nitrobenzene-d5 (Surr)	63		36 - 120	01/20/25 13:18	01/27/25 14:51	1
Phenol-d6 (Surr)	31		10 - 120	01/20/25 13:18	01/27/25 14:51	1
p-Terphenyl-d14 (Surr)	65		47 - 131	01/20/25 13:18	01/27/25 14:51	1

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-130962-1
SDG: Weekly

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

Lab Sample ID: MB 570-524601/1-A
Matrix: Water
Analysis Batch: 527743

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 524601

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1-Methylnaphthalene	<0.20		0.20	ug/L		01/20/25 13:18	01/29/25 14:16	1
2-Methylnaphthalene	<0.20		0.20	ug/L		01/20/25 13:18	01/29/25 14:16	1
Acenaphthene	<0.20		0.20	ug/L		01/20/25 13:18	01/29/25 14:16	1
Acenaphthylene	<0.20		0.20	ug/L		01/20/25 13:18	01/29/25 14:16	1
Anthracene	<0.20		0.20	ug/L		01/20/25 13:18	01/29/25 14:16	1
Benzo[a]anthracene	<0.20		0.20	ug/L		01/20/25 13:18	01/29/25 14:16	1
Benzo[a]pyrene	<0.20		0.20	ug/L		01/20/25 13:18	01/29/25 14:16	1
Benzo[b]fluoranthene	<0.20		0.20	ug/L		01/20/25 13:18	01/29/25 14:16	1
Benzo[g,h,i]perylene	<0.20		0.20	ug/L		01/20/25 13:18	01/29/25 14:16	1
Benzo[k]fluoranthene	<0.20		0.20	ug/L		01/20/25 13:18	01/29/25 14:16	1
Chrysene	<0.20		0.20	ug/L		01/20/25 13:18	01/29/25 14:16	1
Dibenz(a,h)anthracene	<0.20		0.20	ug/L		01/20/25 13:18	01/29/25 14:16	1
Fluoranthene	<0.20		0.20	ug/L		01/20/25 13:18	01/29/25 14:16	1
Fluorene	<0.20		0.20	ug/L		01/20/25 13:18	01/29/25 14:16	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20	ug/L		01/20/25 13:18	01/29/25 14:16	1
Naphthalene	<0.20		0.20	ug/L		01/20/25 13:18	01/29/25 14:16	1
Phenanthrene	<0.20		0.20	ug/L		01/20/25 13:18	01/29/25 14:16	1
Pyrene	<0.20		0.20	ug/L		01/20/25 13:18	01/29/25 14:16	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4,6-Tribromophenol (Surr)	91		28 - 127	01/20/25 13:18	01/29/25 14:16	1
2-Fluorobiphenyl (Surr)	57		31 - 120	01/20/25 13:18	01/29/25 14:16	1
2-Fluorophenol (Surr)	44		17 - 120	01/20/25 13:18	01/29/25 14:16	1
Nitrobenzene-d5 (Surr)	62		27 - 120	01/20/25 13:18	01/29/25 14:16	1
Phenol-d6 (Surr)	28		10 - 120	01/20/25 13:18	01/29/25 14:16	1
p-Terphenyl-d14 (Surr)	68		45 - 120	01/20/25 13:18	01/29/25 14:16	1

Lab Sample ID: LCS 570-524601/2-A
Matrix: Water
Analysis Batch: 527743

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 524601

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
1-Methylnaphthalene	20.0	13.5		ug/L		68	47 - 120
2-Methylnaphthalene	20.0	14.9		ug/L		74	43 - 120
Acenaphthene	20.0	15.7		ug/L		78	60 - 132
Acenaphthylene	20.0	15.5		ug/L		78	54 - 126
Anthracene	20.0	18.1		ug/L		91	43 - 120
Benzo[a]anthracene	20.0	17.4		ug/L		87	42 - 133
Benzo[a]pyrene	20.0	18.3		ug/L		92	32 - 148
Benzo[b]fluoranthene	20.0	18.0		ug/L		90	42 - 140
Benzo[g,h,i]perylene	20.0	16.9		ug/L		84	1 - 195
Benzo[k]fluoranthene	20.0	17.8		ug/L		89	25 - 146
Chrysene	20.0	17.0		ug/L		85	44 - 140
Dibenz(a,h)anthracene	20.0	17.4		ug/L		87	1 - 200
Fluoranthene	20.0	19.2		ug/L		96	43 - 121
Fluorene	20.0	17.2		ug/L		86	70 - 120
Indeno[1,2,3-cd]pyrene	20.0	17.8		ug/L		89	1 - 151
Naphthalene	20.0	13.4		ug/L		67	36 - 120

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-130962-1
SDG: Weekly

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

Lab Sample ID: LCS 570-524601/2-A
Matrix: Water
Analysis Batch: 527743

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 524601

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phenanthrene	20.0	18.0		ug/L		90	65 - 120
Pyrene	20.0	17.8		ug/L		89	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	84		28 - 127
2-Fluorobiphenyl (Surr)	69		31 - 120
2-Fluorophenol (Surr)	54		17 - 120
Nitrobenzene-d5 (Surr)	64		27 - 120
Phenol-d6 (Surr)	37		10 - 120
p-Terphenyl-d14 (Surr)	79		45 - 120

Lab Sample ID: LCSD 570-524601/3-A
Matrix: Water
Analysis Batch: 527743

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 524601

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	20.0	14.5		ug/L		73	47 - 120	7	20
2-Methylnaphthalene	20.0	16.5		ug/L		82	43 - 120	10	20
Acenaphthene	20.0	17.0		ug/L		85	60 - 132	8	29
Acenaphthylene	20.0	16.9		ug/L		85	54 - 126	9	45
Anthracene	20.0	18.1		ug/L		91	43 - 120	0	40
Benzo[a]anthracene	20.0	18.2		ug/L		91	42 - 133	4	32
Benzo[a]pyrene	20.0	19.2		ug/L		96	32 - 148	5	43
Benzo[b]fluoranthene	20.0	18.6		ug/L		93	42 - 140	4	43
Benzo[g,h,i]perylene	20.0	17.6		ug/L		88	1 - 195	4	61
Benzo[k]fluoranthene	20.0	18.4		ug/L		92	25 - 146	4	38
Chrysene	20.0	17.9		ug/L		89	44 - 140	5	53
Dibenz(a,h)anthracene	20.0	17.4		ug/L		87	1 - 200	0	75
Fluoranthene	20.0	19.6		ug/L		98	43 - 121	2	40
Fluorene	20.0	18.5		ug/L		93	70 - 120	8	23
Indeno[1,2,3-cd]pyrene	20.0	18.3		ug/L		91	1 - 151	3	60
Naphthalene	20.0	14.7		ug/L		73	36 - 120	9	39
Phenanthrene	20.0	18.2		ug/L		91	65 - 120	1	24
Pyrene	20.0	18.8		ug/L		94	70 - 120	5	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	83		28 - 127
2-Fluorobiphenyl (Surr)	76		31 - 120
2-Fluorophenol (Surr)	59		17 - 120
Nitrobenzene-d5 (Surr)	66		27 - 120
Phenol-d6 (Surr)	39		10 - 120
p-Terphenyl-d14 (Surr)	82		45 - 120

QC Sample Results

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

Job ID: 380-130962-1
SDG: Weekly

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

Lab Sample ID: MB 570-525353/6
Matrix: Water
Analysis Batch: 525353

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			01/22/25 13:53	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		38 - 134				01/22/25 13:53	1

Lab Sample ID: LCS 570-525353/4
Matrix: Water
Analysis Batch: 525353

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (C4-C13)	400	410		ug/L		103	78 - 120
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	101		38 - 134				

Lab Sample ID: LCSD 570-525353/5
Matrix: Water
Analysis Batch: 525353

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	411		ug/L		103	78 - 120	0	10
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	104		38 - 134						

Lab Sample ID: MRL 570-525353/3
Matrix: Water
Analysis Batch: 525353

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	13.2		ug/L		132	50 - 150
Surrogate	MRL %Recovery	MRL Qualifier	Limits				
4-Bromofluorobenzene (Surr)	99		38 - 134				

Lab Sample ID: 380-130371-C-3 MS
Matrix: Water
Analysis Batch: 525353

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (C4-C13)	<10		400	429		ug/L		107	68 - 122
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	101		38 - 134						

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-130962-1
SDG: Weekly

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

Lab Sample ID: 380-130371-C-3 MSD
Matrix: Water
Analysis Batch: 525353

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (C4-C13)	<10		400	433		ug/L		108	68 - 122	1	18
Surrogate	%Recovery	MSD Qualifier	MSD Limits								
4-Bromofluorobenzene (Surr)	100		38 - 134								

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

Lab Sample ID: MB 570-524661/1-A
Matrix: Water
Analysis Batch: 526993

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 524661

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<25		25	ug/L		01/20/25 15:08	01/27/25 23:48	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		01/20/25 15:08	01/27/25 23:48	1
C8-C18	<25		25	ug/L		01/20/25 15:08	01/27/25 23:48	1
Surrogate	%Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac		
n-Octacosane (Surr)	85		60 - 130	01/20/25 15:08	01/27/25 23:48	1		

Lab Sample ID: LCS 570-524661/2-A
Matrix: Water
Analysis Batch: 526993

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 524661

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
C10-C28	1600	1470		ug/L		92	56 - 127
Surrogate	%Recovery	LCS Qualifier	LCS Limits				
n-Octacosane (Surr)	86		60 - 130				

Lab Sample ID: LCSD 570-524661/3-A
Matrix: Water
Analysis Batch: 526993

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 524661

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28	1600	1500		ug/L		93	56 - 127	2	23
Surrogate	%Recovery	LCSD Qualifier	LCSD Limits						
n-Octacosane (Surr)	88		60 - 130						

Lab Sample ID: MRL 570-524661/4-A
Matrix: Water
Analysis Batch: 526993

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 524661

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
C10-C28	0.0200	0.0287		mg/L		144	50 - 150

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-130962-1
 SDG: Weekly

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

Lab Sample ID: MRL 570-524661/4-A
Matrix: Water
Analysis Batch: 526993

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 524661

<u>Surrogate</u>	<u>MRL</u> <u>%Recovery</u>	<u>MRL</u> <u>Qualifier</u>	<u>Limits</u>
<i>n-Octacosane (Surr)</i>	90		60 - 130

Lab Sample ID: 380-130371-B-3-A MS
Matrix: Water
Analysis Batch: 526993

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 524661

<u>Analyte</u>	<u>Sample</u> <u>Result</u>	<u>Sample</u> <u>Qualifier</u>	<u>Spike</u> <u>Added</u>	<u>MS</u> <u>Result</u>	<u>MS</u> <u>Qualifier</u>	<u>Unit</u>	<u>D</u>	<u>%Rec</u>	<u>Limits</u>
C10-C28	<19		1640	1590		ug/L		97	70 - 130

<u>Surrogate</u>	<u>MS</u> <u>%Recovery</u>	<u>MS</u> <u>Qualifier</u>	<u>Limits</u>
<i>n-Octacosane (Surr)</i>	112		60 - 130

Lab Sample ID: 380-130371-B-3-B MSD
Matrix: Water
Analysis Batch: 526993

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 524661

<u>Analyte</u>	<u>Sample</u> <u>Result</u>	<u>Sample</u> <u>Qualifier</u>	<u>Spike</u> <u>Added</u>	<u>MSD</u> <u>Result</u>	<u>MSD</u> <u>Qualifier</u>	<u>Unit</u>	<u>D</u>	<u>%Rec</u>	<u>Limits</u>	<u>RPD</u>	<u>RPD</u> <u>Limit</u>
C10-C28	<19		1620	1540		ug/L		95	70 - 130	3	20

<u>Surrogate</u>	<u>MSD</u> <u>%Recovery</u>	<u>MSD</u> <u>Qualifier</u>	<u>Limits</u>
<i>n-Octacosane (Surr)</i>	89		60 - 130

- 1
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QC Association Summary

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

Job ID: 380-130962-1
SDG: Weekly

GC/MS Semi VOA

Prep Batch: 129273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-130962-1	HALAWA WELLS P1	Total/NA	Water	525.2	
380-130962-2	KAAMILO WELLS	Total/NA	Water	525.2	
MB 380-129273/21-A	Method Blank	Total/NA	Water	525.2	
LCS 380-129273/23-A	Lab Control Sample	Total/NA	Water	525.2	
MRL 380-129273/22-A	Lab Control Sample	Total/NA	Water	525.2	
380-131022-AC-1-A MS	Matrix Spike	Total/NA	Water	525.2	
380-131022-AD-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	525.2	

Analysis Batch: 129391

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-130962-1	HALAWA WELLS P1	Total/NA	Water	525.2	129273
380-130962-2	KAAMILO WELLS	Total/NA	Water	525.2	129273
MB 380-129273/21-A	Method Blank	Total/NA	Water	525.2	129273
LCS 380-129273/23-A	Lab Control Sample	Total/NA	Water	525.2	129273
MRL 380-129273/22-A	Lab Control Sample	Total/NA	Water	525.2	129273
380-131022-AC-1-A MS	Matrix Spike	Total/NA	Water	525.2	129273
380-131022-AD-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	525.2	129273

Prep Batch: 524601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-130962-1	HALAWA WELLS P1	Total/NA	Water	625.1	
380-130962-2	KAAMILO WELLS	Total/NA	Water	625.1	
MB 570-524601/1-A	Method Blank	Total/NA	Water	625.1	
LCS 570-524601/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 570-524601/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	

Analysis Batch: 526704

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-130962-1	HALAWA WELLS P1	Total/NA	Water	625.1	524601
380-130962-2	KAAMILO WELLS	Total/NA	Water	625.1	524601
MB 570-524601/1-A	Method Blank	Total/NA	Water	625.1	524601

Analysis Batch: 527743

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-130962-1	HALAWA WELLS P1	Total/NA	Water	625.1 SIM	524601
380-130962-2	KAAMILO WELLS	Total/NA	Water	625.1 SIM	524601
MB 570-524601/1-A	Method Blank	Total/NA	Water	625.1 SIM	524601
LCS 570-524601/2-A	Lab Control Sample	Total/NA	Water	625.1 SIM	524601
LCSD 570-524601/3-A	Lab Control Sample Dup	Total/NA	Water	625.1 SIM	524601

GC VOA

Analysis Batch: 525353

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-130962-1	HALAWA WELLS P1	Total/NA	Water	8015B GRO LL	
380-130962-2	KAAMILO WELLS	Total/NA	Water	8015B GRO LL	
380-130962-3	TB HALAWA WELLS P1	Total/NA	Water	8015B GRO LL	
380-130962-4	TB KAAMILO WELLS	Total/NA	Water	8015B GRO LL	
MB 570-525353/6	Method Blank	Total/NA	Water	8015B GRO LL	
LCS 570-525353/4	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-525353/5	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	

Eurofins Eaton Analytical Pomona

QC Association Summary

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

Job ID: 380-130962-1
SDG: Weekly

GC VOA (Continued)

Analysis Batch: 525353 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MRL 570-525353/3	Lab Control Sample	Total/NA	Water	8015B GRO LL	
380-130371-C-3 MS	Matrix Spike	Total/NA	Water	8015B GRO LL	
380-130371-C-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8015B GRO LL	

GC Semi VOA

Prep Batch: 524661

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-130962-1	HALAWA WELLS P1	Total/NA	Water	3510C	
380-130962-2	KAAMILO WELLS	Total/NA	Water	3510C	
MB 570-524661/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-524661/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-524661/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-524661/4-A	Lab Control Sample	Total/NA	Water	3510C	
380-130371-B-3-A MS	Matrix Spike	Total/NA	Water	3510C	
380-130371-B-3-B MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

Analysis Batch: 526993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-130962-1	HALAWA WELLS P1	Total/NA	Water	8015B	524661
380-130962-2	KAAMILO WELLS	Total/NA	Water	8015B	524661
MB 570-524661/1-A	Method Blank	Total/NA	Water	8015B	524661
LCS 570-524661/2-A	Lab Control Sample	Total/NA	Water	8015B	524661
LCSD 570-524661/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	524661
MRL 570-524661/4-A	Lab Control Sample	Total/NA	Water	8015B	524661
380-130371-B-3-A MS	Matrix Spike	Total/NA	Water	8015B	524661
380-130371-B-3-B MSD	Matrix Spike Duplicate	Total/NA	Water	8015B	524661

Lab Chronicle

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

Job ID: 380-130962-1
SDG: Weekly

Client Sample ID: HALAWA WELLS P1

Lab Sample ID: 380-130962-1

Date Collected: 01/14/25 09:40

Matrix: Water

Date Received: 01/17/25 10:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			129273	OTM3	EA POM	01/21/25 06:08
Total/NA	Analysis	525.2		1	129391	UPAC	EA POM	01/21/25 17:07
Total/NA	Prep	625.1			524601	H1SH	EET CAL 4	01/20/25 13:18
Total/NA	Analysis	625.1		1	526704	PQS1	EET CAL 4	01/27/25 15:15
Total/NA	Prep	625.1			524601	H1SH	EET CAL 4	01/20/25 13:18
Total/NA	Analysis	625.1 SIM		1	527743	PQS1	EET CAL 4	01/29/25 18:17
Total/NA	Analysis	8015B GRO LL		1	525353	A9VE	EET CAL 4	01/22/25 17:10
Total/NA	Prep	3510C			524661	TVD6	EET CAL 4	01/20/25 15:09
Total/NA	Analysis	8015B		1	526993	E5RH	EET CAL 4	01/28/25 02:38

Client Sample ID: KAAMILO WELLS

Lab Sample ID: 380-130962-2

Date Collected: 01/14/25 10:10

Matrix: Water

Date Received: 01/17/25 10:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			129273	OTM3	EA POM	01/21/25 06:08
Total/NA	Analysis	525.2		1	129391	UPAC	EA POM	01/21/25 17:27
Total/NA	Prep	625.1			524601	H1SH	EET CAL 4	01/20/25 13:18
Total/NA	Analysis	625.1		1	526704	PQS1	EET CAL 4	01/27/25 15:38
Total/NA	Prep	625.1			524601	H1SH	EET CAL 4	01/20/25 13:18
Total/NA	Analysis	625.1 SIM		1	527743	PQS1	EET CAL 4	01/29/25 18:39
Total/NA	Analysis	8015B GRO LL		1	525353	A9VE	EET CAL 4	01/22/25 17:35
Total/NA	Prep	3510C			524661	TVD6	EET CAL 4	01/20/25 15:09
Total/NA	Analysis	8015B		1	526993	E5RH	EET CAL 4	01/28/25 02:59

Client Sample ID: TB HALAWA WELLS P1

Lab Sample ID: 380-130962-3

Date Collected: 01/14/25 09:40

Matrix: Water

Date Received: 01/17/25 10:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	525353	A9VE	EET CAL 4	01/22/25 21:25

Client Sample ID: TB KAAMILO WELLS

Lab Sample ID: 380-130962-4

Date Collected: 01/14/25 10:10

Matrix: Water

Date Received: 01/17/25 10:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	525353	A9VE	EET CAL 4	01/22/25 21:50

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 380-130962-1
 SDG: Weekly

Laboratory: Eurofins Eaton Analytical Pomona

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

Authority	Program	Identification Number	Expiration Date
Hawaii	State	CA00006	01-31-25

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	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
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

Eurofins Eaton Analytical Pomona

Accreditation/Certification Summary

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

Job ID: 380-130962-1
SDG: Weekly

Laboratory: Eurofins Calscience (Continued)

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

Authority	Program	Identification Number	Expiration Date
Kansas	NELAP	E-10420	07-31-25
Nevada	State	CA00111	07-31-25
Oregon	NELAP	4175	02-02-25
USDA	US Federal Programs	525-23-159-97150	06-08-26
Washington	State	C916	10-11-25

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Method Summary

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

Job ID: 380-130962-1
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: 380-130962-1
SDG: Weekly

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
380-130962-1	HALAWA WELLS P1	Water	01/14/25 09:40	01/17/25 10:28
380-130962-2	KAAMILO WELLS	Water	01/14/25 10:10	01/17/25 10:28
380-130962-3	TB HALAWA WELLS P1	Water	01/14/25 09:40	01/17/25 10:28
380-130962-4	TB KAAMILO WELLS	Water	01/14/25 10:10	01/17/25 10:28

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

Chain of Custody Record



Environment Testing
 America

Client Information Client Contact: K. Iwamoto Dr. Ron Fenstermacher Phone: 808-748-5840 City and County of Honolulu		Lab PM: Arada, Rachelle E-Mail: Rachelle.Arada@et.eurofinsus.com State of Origin:		Carrier Tracking No(s): COC No:					
Address: 630 South Beretania St. Chemistry Lab Honolulu State, Zip: Hawaii 96843 Phone: 808-748-5841 Email: RFENSTERMACHER@hbws.org		Due Date Requested: TAT Requested (days): Standard Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No PO #: C20525101 exp 05312023 WFO #:		Analysis Requested Preservation C: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:					
Project Name: RED HILL/HBWS Sites Event Desc: RUSH Weekly Red Hill Site: Hawaii Project #: 38001111 SSOW#:		Perform MS/MSD (Yes or No): Field Filtered Sample (Yes or No): 625 1, 625 1, SIM 80158_GRO_LL - (MOD) GRO 80158_DRO_LL_CS - HNL ranges C10-C24/C24-C36/C8-C18 525 2, PREC - (MOD) 525 Plus Plus TICs		Total Number of Containers:					
Sample Identification HALAWA WELLS P1 KAAMILO WELLS		Sample Date 1/14/25 1/14/25	Sample Time 0940 1010	Sample Type (C=Comp, G=grab) G G	Matrix (W=water, S=solid, O=oil, ST=Steam, A=Air) Water Water	R 2 2	RA 3 3	AQ 2 2	Special Instructions/Note: Page 2
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological									
Deliverable Requested: I II III IV Other (specify)									
Empty Kit Relinquished by:									
Relinquished by:		Date: 1/15/25		Method of Shipment: FEDEX 3714 5427 6665					
Relinquished by:		Date/Time: 10:28		Date/Time: 01/17/25					
Relinquished by:		Date/Time:		Date/Time:					
Custody Seals Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Custody Seal No:		Color Temperature(s) °C and Other Remarks: 3.1°-0.0°=1.9° 3.1°-0.0°=3.1° (See Table)					



Ver 01/16/2019

Eurofins Eaton Analytical Pomona

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

Chain of Custody Record



Loc: 380
130962
 Environment Testing

Client Information (Sub Contract Lab)		Sampler: N/A		Lab PM: Arada, Rachele		Carrier Tracking No(s): N/A		COC No: 380-183857.1																																																																				
Client Contact: Shipping/Receiving		Phone: N/A		E-Mail: Rachele.Arada@et.eurofins.com		State of Origin: Hawaii		Page: Page 1 of 1																																																																				
Company: Eurofins Environment Testing Southwest,				Accreditations Required (See note): State - Hawaii				Job #: 380-130962-1																																																																				
Address: 2841 Dow Avenue, Suite 100,		Due Date Requested: 1/30/2025		<table border="1"> <thead> <tr> <th colspan="10">Analysis Requested</th> </tr> <tr> <th>Field Filtered Sample (Yes or No)</th> <th>Perform MS/MSD (Yes or No)</th> <th>8015B_DRO_LL_CS/3510C_LL_HNL Ranges: C10-C24/C24-C36/C4-C18</th> <th>8015B_GRO_LL/5030C (MOD) GRO</th> <th>625.1_SIM/625_Prep (MOD) Extended PAH List</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>Total Number of containers</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>7</td> </tr> <tr> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>7</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>2</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>2</td> </tr> </tbody> </table>						Analysis Requested										Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015B_DRO_LL_CS/3510C_LL_HNL Ranges: C10-C24/C24-C36/C4-C18	8015B_GRO_LL/5030C (MOD) GRO	625.1_SIM/625_Prep (MOD) Extended PAH List						Total Number of containers			X	X	X						7			X	X	X						7					X						2					X						2	Preservation Codes: -	
Analysis Requested																																																																												
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City: Tustin		TAT Requested (days): N/A								Other: N/A																																																																		
State, Zip: CA, 92780		PO #: N/A								Special Instructions/Note: MRLs are needed. Confirm any hits >RL. MRLs are needed. Confirm any hits >RL. MRLs are needed. MRLs are needed.																																																																		
Phone: 714-895-5494(Tel)		WO #: N/A																																																																										
Email: N/A		Project #: 38001111																																																																										
Project Name: RED-HILL		SSOW#: N/A																																																																										
Site: Honolulu BWS Sites																																																																												
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HALAWA WELLS P1 (380-130962-1)		1/14/25		09:40 Hawaiian		G		Water		7																																																																		
KAAMILO WELLS (380-130962-2)		1/14/25		10:10 Hawaiian		G		Water		7																																																																		
TB HALAWA WELLS P1 (380-130962-3)		1/14/25		09:40 Hawaiian		G		Water		2																																																																		
TB KAAMILO WELLS (380-130962-4)		1/14/25		10:10 Hawaiian		G		Water		2																																																																		
										380-130962 Chain of Custody																																																																		
Note: Since laboratory accreditations are subject to change, Eurofins Eaton Analytical, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Eaton Analytical, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Eaton Analytical, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Eaton Analytical, LLC.																																																																												
Possible Hazard Identification					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)																																																																							
Unconfirmed					<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months																																																																							
Deliverable Requested: I, II, III, IV, Other (specify)			Primary Deliverable Rank: 2		Special Instructions/QC Requirements:																																																																							
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:																																																																						
Relinquished by: <i>[Signature]</i>		Date/Time: 1/18/25 1000		Company: <i>[Signature]</i>		Received by: <i>[Signature]</i>		Date/Time: 1/18/25 1000		Company: WP																																																																		
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Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:			Cooler Temperature(s) °C and Other Remarks: 3.0/3.8/4.4																																																																							

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-130962-1

SDG Number: Weekly

Login Number: 130962

List Number: 1

Creator: Edrosa, Rey

List Source: Eurofins Eaton Analytical Pomona

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



Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-130962-1

SDG Number: Weekly

Login Number: 130962

List Number: 2

Creator: Skinner, Alma D

List Source: Eurofins Calscience

List Creation: 01/20/25 09:08 AM

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.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.3
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

