

# ANALYTICAL REPORT

## PREPARED FOR

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630 South Beretania Street  
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## JOB DESCRIPTION

RED-HILL  
Weekly  
RUSH Weekly Red Hill

## JOB NUMBER

380-136981-1

# Eurofins Eaton Analytical Pomona

## Job Notes

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

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

## Compliance Statement

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

## Authorization



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# Definitions/Glossary

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

Job ID: 380-136981-1  
SDG: Weekly

## Qualifiers

### GC/MS Semi VOA

Qualifier	Qualifier Description
^3+	Reporting Limit Check Standard is outside acceptance limits, high biased
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.

### 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: 380-136981-1

**Job ID: 380-136981-1**

**Eurofins Eaton Analytical Pomona**

## Job Narrative 380-136981-1

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 2/21/2025 9:34 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.5°C and 0.9°C.

### GC/MS Semi VOA

Method 625.1\_SIM: Surrogate recovery for the following samples were outside the upper control limit: HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP065) (380-136981-1) and AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP400) (380-136981-2). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

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: 380-136981-1  
SDG: Weekly

**Client Sample ID: HALAWA WELLS UNITS 1 & 2 P1  
(331-206-TP065)**  
PWSID Number: HI0000331

**Lab Sample ID: 380-136981-1**

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Dieldrin	0.011		0.0096	ug/L	1		525.2	Total/NA

**Client Sample ID: AIEA WELLS PUMPS 1&2 (260) P2  
(331-203-TP400)**  
PWSID Number: HI0000331

**Lab Sample ID: 380-136981-2**

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Dieldrin	0.043		0.0098	ug/L	1		525.2	Total/NA
Heptachlor epoxide (isomer B)	0.015		0.0098	ug/L	1		525.2	Total/NA

**Client Sample ID: TB: HALAWA WELLS UNITS 1&2  
(331-206-TP065)**

**Lab Sample ID: 380-136981-3**

No Detections.

**Client Sample ID: TB: AIEA WELLS PUMPS 1&2 (260)  
(331-203-TP400)**

**Lab Sample ID: 380-136981-4**

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: 380-136981-1  
SDG: Weekly

**Client Sample ID: HALAWA WELLS UNITS 1 & 2 P1  
(331-206-TP065)**

**Lab Sample ID: 380-136981-1**

**Date Collected: 02/18/25 10:10**

**Matrix: Drinking Water**

**Date Received: 02/21/25 09:34**

**PWSID Number: HI0000331**

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.096		0.096	ug/L		02/25/25 07:06	02/26/25 10:21	1
2,4'-DDD	<0.096		0.096	ug/L		02/25/25 07:06	02/26/25 10:21	1
2,4'-DDE	<0.096		0.096	ug/L		02/25/25 07:06	02/26/25 10:21	1
2,4'-DDT	<0.096		0.096	ug/L		02/25/25 07:06	02/26/25 10:21	1
2,4-Dinitrotoluene	<0.096		0.096	ug/L		02/25/25 07:06	02/26/25 10:21	1
2,6-Dinitrotoluene	<0.096		0.096	ug/L		02/25/25 07:06	02/26/25 10:21	1
2-Methylnaphthalene	<0.096		0.096	ug/L		02/25/25 07:06	02/26/25 10:21	1
4,4'-DDD	<0.096		0.096	ug/L		02/25/25 07:06	02/26/25 10:21	1
4,4'-DDE	<0.096		0.096	ug/L		02/25/25 07:06	02/26/25 10:21	1
4,4'-DDT	<0.096		0.096	ug/L		02/25/25 07:06	02/26/25 10:21	1
Acenaphthene	<0.096		0.096	ug/L		02/25/25 07:06	02/26/25 10:21	1
Acenaphthylene	<0.096		0.096	ug/L		02/25/25 07:06	02/26/25 10:21	1
Acetochlor	<0.096		0.096	ug/L		02/25/25 07:06	02/26/25 10:21	1
Alachlor	<0.048		0.048	ug/L		02/25/25 07:06	02/26/25 10:21	1
alpha-BHC	<0.096		0.096	ug/L		02/25/25 07:06	02/26/25 10:21	1
alpha-Chlordane	<0.048		0.048	ug/L		02/25/25 07:06	02/26/25 10:21	1
Anthracene	<0.019		0.019	ug/L		02/25/25 07:06	02/26/25 10:21	1
Atrazine	<0.048		0.048	ug/L		02/25/25 07:06	02/26/25 10:21	1
Benz(a)anthracene	<0.048		0.048	ug/L		02/25/25 07:06	02/26/25 10:21	1
Benzo[a]pyrene	<0.019		0.019	ug/L		02/25/25 07:06	02/26/25 10:21	1
Benzo[b]fluoranthene	<0.019		0.019	ug/L		02/25/25 07:06	02/26/25 10:21	1
Benzo[g,h,i]perylene	<0.048		0.048	ug/L		02/25/25 07:06	02/26/25 10:21	1
Benzo[k]fluoranthene	<0.019		0.019	ug/L		02/25/25 07:06	02/26/25 10:21	1
beta-BHC	<0.096		0.096	ug/L		02/25/25 07:06	02/26/25 10:21	1
Bis(2-ethylhexyl) phthalate	<0.58		0.58	ug/L		02/25/25 07:06	02/26/25 10:21	1
Bromacil	<0.096		0.096	ug/L		02/25/25 07:06	02/26/25 10:21	1
Butachlor	<0.048		0.048	ug/L		02/25/25 07:06	02/26/25 10:21	1
Butylbenzylphthalate	<0.48		0.48	ug/L		02/25/25 07:06	02/26/25 10:21	1
Chlorobenzilate	<0.096		0.096	ug/L		02/25/25 07:06	02/26/25 10:21	1
Chloroneb	<0.096		0.096	ug/L		02/25/25 07:06	02/26/25 10:21	1
Chlorothalonil (Draconil, Bravo)	<0.096		0.096	ug/L		02/25/25 07:06	02/26/25 10:21	1
Chlorpyrifos	<0.048		0.048	ug/L		02/25/25 07:06	02/26/25 10:21	1
Chrysene	<0.019		0.019	ug/L		02/25/25 07:06	02/26/25 10:21	1
delta-BHC	<0.096		0.096	ug/L		02/25/25 07:06	02/26/25 10:21	1
Di(2-ethylhexyl)adipate	<0.58		0.58	ug/L		02/25/25 07:06	02/26/25 10:21	1
Dibenz(a,h)anthracene	<0.048		0.048	ug/L		02/25/25 07:06	02/26/25 10:21	1
Diclorvos (DDVP)	<0.048		0.048	ug/L		02/25/25 07:06	02/26/25 10:21	1
<b>Dieldrin</b>	<b>0.011</b>		0.0096	ug/L		02/25/25 07:06	02/26/25 10:21	1
Diethylphthalate	<0.48		0.48	ug/L		02/25/25 07:06	02/26/25 10:21	1
Dimethylphthalate	<0.48		0.48	ug/L		02/25/25 07:06	02/26/25 10:21	1
Di-n-butyl phthalate	<0.96		0.96	ug/L		02/25/25 07:06	02/26/25 10:21	1
Di-n-octyl phthalate	<0.096		0.096	ug/L		02/25/25 07:06	02/26/25 10:21	1
Endosulfan I (Alpha)	<0.096		0.096	ug/L		02/25/25 07:06	02/26/25 10:21	1
Endosulfan II (Beta)	<0.096		0.096	ug/L		02/25/25 07:06	02/26/25 10:21	1
Endosulfan sulfate	<0.096		0.096	ug/L		02/25/25 07:06	02/26/25 10:21	1
Endrin	<0.0096		0.0096	ug/L		02/25/25 07:06	02/26/25 10:21	1
Endrin aldehyde	<0.096		0.096	ug/L		02/25/25 07:06	02/26/25 10:21	1
EPTC	<0.096		0.096	ug/L		02/25/25 07:06	02/26/25 10:21	1

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# Client Sample Results

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

Job ID: 380-136981-1  
SDG: Weekly

**Client Sample ID: HALAWA WELLS UNITS 1 & 2 P1  
(331-206-TP065)**

**Lab Sample ID: 380-136981-1**

**Date Collected: 02/18/25 10:10**

**Matrix: Drinking Water**

**Date Received: 02/21/25 09:34**

**PWSID Number: HI0000331**

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.096		0.096	ug/L		02/25/25 07:06	02/26/25 10:21	1
Fluorene	<0.048		0.048	ug/L		02/25/25 07:06	02/26/25 10:21	1
gamma-Chlordane	<0.048		0.048	ug/L		02/25/25 07:06	02/26/25 10:21	1
Heptachlor	<0.0096	^3+	0.0096	ug/L		02/25/25 07:06	02/26/25 10:21	1
Heptachlor epoxide (isomer B)	<0.0096		0.0096	ug/L		02/25/25 07:06	02/26/25 10:21	1
Hexachlorobenzene	<0.048		0.048	ug/L		02/25/25 07:06	02/26/25 10:21	1
Hexachlorocyclopentadiene	<0.048		0.048	ug/L		02/25/25 07:06	02/26/25 10:21	1
Indeno[1,2,3-cd]pyrene	<0.048		0.048	ug/L		02/25/25 07:06	02/26/25 10:21	1
Isophorone	<0.096		0.096	ug/L		02/25/25 07:06	02/26/25 10:21	1
Lindane	<0.0096		0.0096	ug/L		02/25/25 07:06	02/26/25 10:21	1
Malathion	<0.096		0.096	ug/L		02/25/25 07:06	02/26/25 10:21	1
Methoxychlor	<0.048		0.048	ug/L		02/25/25 07:06	02/26/25 10:21	1
Metolachlor	<0.048		0.048	ug/L		02/25/25 07:06	02/26/25 10:21	1
Molinate	<0.096		0.096	ug/L		02/25/25 07:06	02/26/25 10:21	1
Naphthalene	<0.096		0.096	ug/L		02/25/25 07:06	02/26/25 10:21	1
Parathion	<0.096		0.096	ug/L		02/25/25 07:06	02/26/25 10:21	1
Pendimethalin (Penoxaline)	<0.096		0.096	ug/L		02/25/25 07:06	02/26/25 10:21	1
Phenanthrene	<0.038		0.038	ug/L		02/25/25 07:06	02/26/25 10:21	1
Propachlor	<0.048		0.048	ug/L		02/25/25 07:06	02/26/25 10:21	1
Pyrene	<0.048		0.048	ug/L		02/25/25 07:06	02/26/25 10:21	1
Simazine	<0.048		0.048	ug/L		02/25/25 07:06	02/26/25 10:21	1
Terbacil	<0.096		0.096	ug/L		02/25/25 07:06	02/26/25 10:21	1
Terbutylazine	<0.096		0.096	ug/L		02/25/25 07:06	02/26/25 10:21	1
Thiobencarb	<0.096		0.096	ug/L		02/25/25 07:06	02/26/25 10:21	1
Total Permethrin (mixed isomers)	<0.19		0.19	ug/L		02/25/25 07:06	02/26/25 10:21	1
trans-Nonachlor	<0.048		0.048	ug/L		02/25/25 07:06	02/26/25 10:21	1
Trifluralin	<0.096		0.096	ug/L		02/25/25 07:06	02/26/25 10:21	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	02/25/25 07:06	02/26/25 10:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	101		70 - 130	02/25/25 07:06	02/26/25 10:21	1
Perylene-d12	97		70 - 130	02/25/25 07:06	02/26/25 10:21	1
Triphenylphosphate	101		70 - 130	02/25/25 07:06	02/26/25 10:21	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.19		0.19	ug/L		02/24/25 05:42	02/27/25 14:27	1
2-Methylnaphthalene	<0.19		0.19	ug/L		02/24/25 05:42	02/27/25 14:27	1
Acenaphthene	<0.19		0.19	ug/L		02/24/25 05:42	02/27/25 14:27	1
Acenaphthylene	<0.19		0.19	ug/L		02/24/25 05:42	02/27/25 14:27	1
Anthracene	<0.19		0.19	ug/L		02/24/25 05:42	02/27/25 14:27	1
Benzo[a]anthracene	<0.19		0.19	ug/L		02/24/25 05:42	02/27/25 14:27	1
Benzo[a]pyrene	<0.19		0.19	ug/L		02/24/25 05:42	02/27/25 14:27	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		02/24/25 05:42	02/27/25 14:27	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		02/24/25 05:42	02/27/25 14:27	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		02/24/25 05:42	02/27/25 14:27	1
Chrysene	<0.19		0.19	ug/L		02/24/25 05:42	02/27/25 14:27	1

Eurofins Eaton Analytical Pomona



# Client Sample Results

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

Job ID: 380-136981-1  
SDG: Weekly

**Client Sample ID: HALAWA WELLS UNITS 1 & 2 P1  
(331-206-TP065)**

**Lab Sample ID: 380-136981-1**

**Date Collected: 02/18/25 10:10**

**Matrix: Drinking Water**

**Date Received: 02/21/25 09:34**

**PWSID Number: HI0000331**

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	<0.19		0.19	ug/L		02/24/25 05:42	02/27/25 14:27	1
Fluoranthene	<0.19		0.19	ug/L		02/24/25 05:42	02/27/25 14:27	1
Fluorene	<0.19		0.19	ug/L		02/24/25 05:42	02/27/25 14:27	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		02/24/25 05:42	02/27/25 14:27	1
Naphthalene	<0.19		0.19	ug/L		02/24/25 05:42	02/27/25 14:27	1
Phenanthrene	<0.19		0.19	ug/L		02/24/25 05:42	02/27/25 14:27	1
Pyrene	<0.19		0.19	ug/L		02/24/25 05:42	02/27/25 14:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	148	S1+	28 - 127			02/24/25 05:42	02/27/25 14:27	1
2-Fluorobiphenyl (Surr)	152	S1+	31 - 120			02/24/25 05:42	02/27/25 14:27	1
2-Fluorophenol (Surr)	84		17 - 120			02/24/25 05:42	02/27/25 14:27	1
Nitrobenzene-d5 (Surr)	155	S1+	27 - 120			02/24/25 05:42	02/27/25 14:27	1
Phenol-d6 (Surr)	53		10 - 120			02/24/25 05:42	02/27/25 14:27	1
p-Terphenyl-d14 (Surr)	158	S1+	45 - 120			02/24/25 05:42	02/27/25 14:27	1

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

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	02/24/25 05:42	02/27/25 14:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	134		33 - 139				02/24/25 05:42	02/27/25 14:57	1
2-Fluorobiphenyl (Surr)	159	S1+	33 - 126				02/24/25 05:42	02/27/25 14:57	1
2-Fluorophenol (Surr)	87		12 - 120				02/24/25 05:42	02/27/25 14:57	1
Nitrobenzene-d5 (Surr)	166	S1+	36 - 120				02/24/25 05:42	02/27/25 14:57	1
Phenol-d6 (Surr)	53		10 - 120				02/24/25 05:42	02/27/25 14:57	1
p-Terphenyl-d14 (Surr)	141	S1+	47 - 131				02/24/25 05:42	02/27/25 14:57	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			02/28/25 17:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		38 - 134				02/28/25 17:05	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<26		26	ug/L		02/23/25 13:30	02/24/25 20:26	1
Motor Oil Range Organics [C24-C36]	<26		26	ug/L		02/23/25 13:30	02/24/25 20:26	1
C8-C18	<26		26	ug/L		02/23/25 13:30	02/24/25 20:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	100		60 - 130			02/23/25 13:30	02/24/25 20:26	1

# Client Sample Results

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

Job ID: 380-136981-1  
SDG: Weekly

**Client Sample ID: AIEA WELLS PUMPS 1&2 (260) P2  
(331-203-TP400)**

**Lab Sample ID: 380-136981-2**

**Date Collected: 02/18/25 10:59**

**Matrix: Drinking Water**

**Date Received: 02/21/25 09:34**

**PWSID Number: HI0000331**

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.098		0.098	ug/L		02/26/25 09:10	02/27/25 16:04	1
2,4'-DDD	<0.098		0.098	ug/L		02/26/25 09:10	02/27/25 16:04	1
2,4'-DDE	<0.098		0.098	ug/L		02/26/25 09:10	02/27/25 16:04	1
2,4'-DDT	<0.098		0.098	ug/L		02/26/25 09:10	02/27/25 16:04	1
2,4-Dinitrotoluene	<0.098		0.098	ug/L		02/26/25 09:10	02/27/25 16:04	1
2,6-Dinitrotoluene	<0.098		0.098	ug/L		02/26/25 09:10	02/27/25 16:04	1
2-Methylnaphthalene	<0.098		0.098	ug/L		02/26/25 09:10	02/27/25 16:04	1
4,4'-DDD	<0.098		0.098	ug/L		02/26/25 09:10	02/27/25 16:04	1
4,4'-DDE	<0.098		0.098	ug/L		02/26/25 09:10	02/27/25 16:04	1
4,4'-DDT	<0.098		0.098	ug/L		02/26/25 09:10	02/27/25 16:04	1
Acenaphthene	<0.098		0.098	ug/L		02/26/25 09:10	02/27/25 16:04	1
Acenaphthylene	<0.098		0.098	ug/L		02/26/25 09:10	02/27/25 16:04	1
Acetochlor	<0.098		0.098	ug/L		02/26/25 09:10	02/27/25 16:04	1
Alachlor	<0.049		0.049	ug/L		02/26/25 09:10	02/27/25 16:04	1
alpha-BHC	<0.098		0.098	ug/L		02/26/25 09:10	02/27/25 16:04	1
alpha-Chlordane	<0.049		0.049	ug/L		02/26/25 09:10	02/27/25 16:04	1
Anthracene	<0.020		0.020	ug/L		02/26/25 09:10	02/27/25 16:04	1
Atrazine	<0.049		0.049	ug/L		02/26/25 09:10	02/27/25 16:04	1
Benz(a)anthracene	<0.049		0.049	ug/L		02/26/25 09:10	02/27/25 16:04	1
Benzo[a]pyrene	<0.020		0.020	ug/L		02/26/25 09:10	02/27/25 16:04	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		02/26/25 09:10	02/27/25 16:04	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		02/26/25 09:10	02/27/25 16:04	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		02/26/25 09:10	02/27/25 16:04	1
beta-BHC	<0.098		0.098	ug/L		02/26/25 09:10	02/27/25 16:04	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		02/26/25 09:10	02/27/25 16:04	1
Bromacil	<0.098		0.098	ug/L		02/26/25 09:10	02/27/25 16:04	1
Butachlor	<0.049		0.049	ug/L		02/26/25 09:10	02/27/25 16:04	1
Butylbenzylphthalate	<0.49		0.49	ug/L		02/26/25 09:10	02/27/25 16:04	1
Chlorobenzilate	<0.098		0.098	ug/L		02/26/25 09:10	02/27/25 16:04	1
Chloroneb	<0.098		0.098	ug/L		02/26/25 09:10	02/27/25 16:04	1
Chlorothalonil (Draconil, Bravo)	<0.098		0.098	ug/L		02/26/25 09:10	02/27/25 16:04	1
Chlorpyrifos	<0.049		0.049	ug/L		02/26/25 09:10	02/27/25 16:04	1
Chrysene	<0.020		0.020	ug/L		02/26/25 09:10	02/27/25 16:04	1
delta-BHC	<0.098		0.098	ug/L		02/26/25 09:10	02/27/25 16:04	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		02/26/25 09:10	02/27/25 16:04	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		02/26/25 09:10	02/27/25 16:04	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		02/26/25 09:10	02/27/25 16:04	1
<b>Dieldrin</b>	<b>0.043</b>		0.0098	ug/L		02/26/25 09:10	02/27/25 16:04	1
Diethylphthalate	<0.49		0.49	ug/L		02/26/25 09:10	02/27/25 16:04	1
Dimethylphthalate	<0.49		0.49	ug/L		02/26/25 09:10	02/27/25 16:04	1
Di-n-butyl phthalate	<0.98		0.98	ug/L		02/26/25 09:10	02/27/25 16:04	1
Di-n-octyl phthalate	<0.098		0.098	ug/L		02/26/25 09:10	02/27/25 16:04	1
Endosulfan I (Alpha)	<0.098		0.098	ug/L		02/26/25 09:10	02/27/25 16:04	1
Endosulfan II (Beta)	<0.098		0.098	ug/L		02/26/25 09:10	02/27/25 16:04	1
Endosulfan sulfate	<0.098		0.098	ug/L		02/26/25 09:10	02/27/25 16:04	1
Endrin	<0.0098		0.0098	ug/L		02/26/25 09:10	02/27/25 16:04	1
Endrin aldehyde	<0.098		0.098	ug/L		02/26/25 09:10	02/27/25 16:04	1
EPTC	<0.098		0.098	ug/L		02/26/25 09:10	02/27/25 16:04	1

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# Client Sample Results

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

Job ID: 380-136981-1  
SDG: Weekly

**Client Sample ID: AIEA WELLS PUMPS 1&2 (260) P2  
(331-203-TP400)**

**Lab Sample ID: 380-136981-2**

**Date Collected: 02/18/25 10:59**

**Matrix: Drinking Water**

**Date Received: 02/21/25 09:34**

**PWSID Number: HI0000331**

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.098		0.098	ug/L		02/26/25 09:10	02/27/25 16:04	1
Fluorene	<0.049		0.049	ug/L		02/26/25 09:10	02/27/25 16:04	1
gamma-Chlordane	<0.049		0.049	ug/L		02/26/25 09:10	02/27/25 16:04	1
Heptachlor	<0.0098		0.0098	ug/L		02/26/25 09:10	02/27/25 16:04	1
<b>Heptachlor epoxide (isomer B)</b>	<b>0.015</b>		0.0098	ug/L		02/26/25 09:10	02/27/25 16:04	1
Hexachlorobenzene	<0.049		0.049	ug/L		02/26/25 09:10	02/27/25 16:04	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		02/26/25 09:10	02/27/25 16:04	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		02/26/25 09:10	02/27/25 16:04	1
Isophorone	<0.098		0.098	ug/L		02/26/25 09:10	02/27/25 16:04	1
Lindane	<0.0098		0.0098	ug/L		02/26/25 09:10	02/27/25 16:04	1
Malathion	<0.098		0.098	ug/L		02/26/25 09:10	02/27/25 16:04	1
Methoxychlor	<0.049		0.049	ug/L		02/26/25 09:10	02/27/25 16:04	1
Metolachlor	<0.049		0.049	ug/L		02/26/25 09:10	02/27/25 16:04	1
Molinate	<0.098		0.098	ug/L		02/26/25 09:10	02/27/25 16:04	1
Naphthalene	<0.098		0.098	ug/L		02/26/25 09:10	02/27/25 16:04	1
Parathion	<0.098		0.098	ug/L		02/26/25 09:10	02/27/25 16:04	1
Pendimethalin (Penoxaline)	<0.098		0.098	ug/L		02/26/25 09:10	02/27/25 16:04	1
Phenanthrene	<0.039		0.039	ug/L		02/26/25 09:10	02/27/25 16:04	1
Propachlor	<0.049		0.049	ug/L		02/26/25 09:10	02/27/25 16:04	1
Pyrene	<0.049		0.049	ug/L		02/26/25 09:10	02/27/25 16:04	1
Simazine	<0.049		0.049	ug/L		02/26/25 09:10	02/27/25 16:04	1
Terbacil	<0.098		0.098	ug/L		02/26/25 09:10	02/27/25 16:04	1
Terbutylazine	<0.098		0.098	ug/L		02/26/25 09:10	02/27/25 16:04	1
Thiobencarb	<0.098		0.098	ug/L		02/26/25 09:10	02/27/25 16:04	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		02/26/25 09:10	02/27/25 16:04	1
trans-Nonachlor	<0.049		0.049	ug/L		02/26/25 09:10	02/27/25 16:04	1
Trifluralin	<0.098		0.098	ug/L		02/26/25 09:10	02/27/25 16:04	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	02/26/25 09:10	02/27/25 16:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	97		70 - 130	02/26/25 09:10	02/27/25 16:04	1
Perylene-d12	93		70 - 130	02/26/25 09:10	02/27/25 16:04	1
Triphenylphosphate	97		70 - 130	02/26/25 09:10	02/27/25 16:04	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		02/24/25 05:42	02/27/25 14:49	1
2-Methylnaphthalene	<0.19		0.19	ug/L		02/24/25 05:42	02/27/25 14:49	1
Acenaphthene	<0.19		0.19	ug/L		02/24/25 05:42	02/27/25 14:49	1
Acenaphthylene	<0.19		0.19	ug/L		02/24/25 05:42	02/27/25 14:49	1
Anthracene	<0.19		0.19	ug/L		02/24/25 05:42	02/27/25 14:49	1
Benzo[a]anthracene	<0.19		0.19	ug/L		02/24/25 05:42	02/27/25 14:49	1
Benzo[a]pyrene	<0.19		0.19	ug/L		02/24/25 05:42	02/27/25 14:49	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		02/24/25 05:42	02/27/25 14:49	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		02/24/25 05:42	02/27/25 14:49	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		02/24/25 05:42	02/27/25 14:49	1
Chrysene	<0.19		0.19	ug/L		02/24/25 05:42	02/27/25 14:49	1

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# Client Sample Results

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

Job ID: 380-136981-1  
SDG: Weekly

**Client Sample ID: AIEA WELLS PUMPS 1&2 (260) P2  
(331-203-TP400)**

**Lab Sample ID: 380-136981-2**

**Date Collected: 02/18/25 10:59**

**Matrix: Drinking Water**

**Date Received: 02/21/25 09:34**

**PWSID Number: HI0000331**

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	<0.19		0.19	ug/L		02/24/25 05:42	02/27/25 14:49	1
Fluoranthene	<0.19		0.19	ug/L		02/24/25 05:42	02/27/25 14:49	1
Fluorene	<0.19		0.19	ug/L		02/24/25 05:42	02/27/25 14:49	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		02/24/25 05:42	02/27/25 14:49	1
Naphthalene	<0.19		0.19	ug/L		02/24/25 05:42	02/27/25 14:49	1
Phenanthrene	<0.19		0.19	ug/L		02/24/25 05:42	02/27/25 14:49	1
Pyrene	<0.19		0.19	ug/L		02/24/25 05:42	02/27/25 14:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	142	S1+	28 - 127	02/24/25 05:42	02/27/25 14:49	1
2-Fluorobiphenyl (Surr)	149	S1+	31 - 120	02/24/25 05:42	02/27/25 14:49	1
2-Fluorophenol (Surr)	89		17 - 120	02/24/25 05:42	02/27/25 14:49	1
Nitrobenzene-d5 (Surr)	155	S1+	27 - 120	02/24/25 05:42	02/27/25 14:49	1
Phenol-d6 (Surr)	55		10 - 120	02/24/25 05:42	02/27/25 14:49	1
p-Terphenyl-d14 (Surr)	150	S1+	45 - 120	02/24/25 05:42	02/27/25 14:49	1

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

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	02/24/25 05:42	02/27/25 15:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	123		33 - 139	02/24/25 05:42	02/27/25 15:20	1
2-Fluorobiphenyl (Surr)	162	S1+	33 - 126	02/24/25 05:42	02/27/25 15:20	1
2-Fluorophenol (Surr)	88		12 - 120	02/24/25 05:42	02/27/25 15:20	1
Nitrobenzene-d5 (Surr)	143	S1+	36 - 120	02/24/25 05:42	02/27/25 15:20	1
Phenol-d6 (Surr)	49		10 - 120	02/24/25 05:42	02/27/25 15:20	1
p-Terphenyl-d14 (Surr)	118		47 - 131	02/24/25 05:42	02/27/25 15:20	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			02/28/25 15:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		38 - 134		02/28/25 15:47	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<26		26	ug/L		02/23/25 13:30	02/24/25 20:47	1
Motor Oil Range Organics [C24-C36]	<26		26	ug/L		02/23/25 13:30	02/24/25 20:47	1
C8-C18	<26		26	ug/L		02/23/25 13:30	02/24/25 20:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	86		60 - 130	02/23/25 13:30	02/24/25 20:47	1

# Client Sample Results

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

Job ID: 380-136981-1  
 SDG: Weekly

**Client Sample ID: TB: HALAWA WELLS UNITS 1&2  
 (331-206-TP065)**

**Lab Sample ID: 380-136981-3**

Date Collected: 02/18/25 10:10

Matrix: Water

Date Received: 02/21/25 09:34

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	<10		10	ug/L			02/28/25 17:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		38 - 134				02/28/25 17:31	1

**Client Sample ID: TB: AIEA WELLS PUMPS 1&2 (260)  
 (331-203-TP400)**

**Lab Sample ID: 380-136981-4**

Date Collected: 02/18/25 10:59

Matrix: Water

Date Received: 02/21/25 09:34

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	<10		10	ug/L			02/28/25 16:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	75		38 - 134				02/28/25 16:39	1

# Action Limit Summary

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

Job ID: 380-136981-1  
SDG: Weekly

**Client Sample ID: HALAWA WELLS UNITS 1 & 2 P1**  
**(331-206-TP065)**  
**PWSID Number: HI0000331**

**Lab Sample ID: 380-136981-1**

## 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	<0.048		ug/L	2	0.048	525.2	Total/NA
Atrazine	<0.048		ug/L	3	0.048	525.2	Total/NA
Benzo[a]pyrene	<0.019		ug/L	0.2	0.019	525.2	Total/NA
Bis(2-ethylhexyl) phthalate	<0.58		ug/L	6	0.58	525.2	Total/NA
Di(2-ethylhexyl)adipate	<0.58		ug/L	400	0.58	525.2	Total/NA
Endrin	<0.0096		ug/L	2	0.0096	525.2	Total/NA
Heptachlor	<0.0096	^3+	ug/L	0.4	0.0096	525.2	Total/NA
Heptachlor epoxide (isomer B)	<0.0096		ug/L	0.2	0.0096	525.2	Total/NA
Hexachlorobenzene	<0.048		ug/L	1	0.048	525.2	Total/NA
Hexachlorocyclopentadiene	<0.048		ug/L	50	0.048	525.2	Total/NA
Lindane	<0.0096		ug/L	0.2	0.0096	525.2	Total/NA
Methoxychlor	<0.048		ug/L	40	0.048	525.2	Total/NA
Simazine	<0.048		ug/L	4	0.048	525.2	Total/NA
Benzo[a]pyrene	<0.19		ug/L	0.2	0.19	625.1 SIM	Total/NA

**Client Sample ID: AIEA WELLS PUMPS 1&2 (260) P2**  
**(331-203-TP400)**  
**PWSID Number: HI0000331**

**Lab Sample ID: 380-136981-2**

## 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)	0.015		ug/L	0.2	0.0098	525.2	Total/NA
Hexachlorobenzene	<0.049		ug/L	1	0.049	525.2	Total/NA
Hexachlorocyclopentadiene	<0.049		ug/L	50	0.049	525.2	Total/NA
Lindane	<0.0098		ug/L	0.2	0.0098	525.2	Total/NA
Methoxychlor	<0.049		ug/L	40	0.049	525.2	Total/NA
Simazine	<0.049		ug/L	4	0.049	525.2	Total/NA
Benzo[a]pyrene	<0.19		ug/L	0.2	0.19	625.1 SIM	Total/NA

# Surrogate Summary

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

Job ID: 380-136981-1  
SDG: Weekly

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

Matrix: Drinking Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		2NMX (70-130)	PRY (70-130)	TPP (70-130)
380-136981-1	HALAWA WELLS UNITS 1 & 2 F	101	97	101
380-136981-2	AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP400)	97	93	97

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

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		2NMX (70-130)	PRY (70-130)	TPP (70-130)
380-135745-AJ-1-A MS	Matrix Spike	100	98	106
380-136977-B-1-A DU	Duplicate	99	99	103
380-137428-AD-1-A DU	Duplicate	101	100	109
380-137440-W-3-A MS	Matrix Spike	101	97	108
LCS 380-137708/23-A	Lab Control Sample	97	98	106
LCS 380-138013/23-A	Lab Control Sample	97	99	109
LCSD 380-138013/24-A	Lab Control Sample Dup	99	103	110
MB 380-137708/21-A	Method Blank	96	97	106
MB 380-138013/21-A	Method Blank	99	98	110
MRL 380-137708/22-A	Lab Control Sample	99	102	105
MRL 380-138013/22-A	Lab Control Sample	99	94	105

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

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

Matrix: Drinking Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (33-139)	FBP (33-126)	2FP (12-120)	NBZ (36-120)	PHL6 (10-120)	TPHd14 (47-131)
380-136981-1	HALAWA WELLS UNITS 1 & 2 F	134	159 S1+	87	166 S1+	53	141 S1+
380-136981-2	AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP400)	123	162 S1+	88	143 S1+	49	118

**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: 380-136981-1  
 SDG: Weekly

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (33-139)	FBP (33-126)	2FP (12-120)	NBZ (36-120)	PHL6 (10-120)	TPHd14 (47-131)
MB 570-537230/1-A	Method Blank	61	81	54	77	38	77

### 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: Drinking Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (28-127)	FBP (31-120)	2FP (17-120)	NBZ (27-120)	PHL6 (10-120)	TPHd14 (45-120)
380-136981-1	HALAWA WELLS UNITS 1 & 2 F	148 S1+	152 S1+	84	155 S1+	53	158 S1+
380-136981-1 MS	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	72	72	60	81	39	75
380-136981-1 MSD	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	70	74	55	72	37	75
380-136981-2	AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP400)	142 S1+	149 S1+	89	155 S1+	55	150 S1+

### 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)
LCS 570-537230/2-A	Lab Control Sample	74	81	63	73	43	80
LCSD 570-537230/3-A	Lab Control Sample Dup	74	79	57	71	40	82
MB 570-537230/1-A	Method Blank	70	68	46	70	31	75

### 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: 380-136981-1  
 SDG: Weekly

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

Matrix: Drinking Water

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (38-134)
380-136981-1	HALAWA WELLS UNITS 1 & 2 F	77
380-136981-1 MS	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	99
380-136981-1 MSD	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	98
380-136981-2	AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP400)	79

**Surrogate Legend**

BFB = 4-Bromofluorobenzene (Surr)

## 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)
380-136981-3	TB: HALAWA WELLS UNITS 1&	77
380-136981-4	TB: AIEA WELLS PUMPS 1&2 (260) (331-203-TP400)	75
LCS 570-539460/1011	Lab Control Sample	94
LCSD 570-539460/12	Lab Control Sample Dup	100
MB 570-539460/13	Method Blank	76
MRL 570-539460/1006	Lab Control Sample	76

**Surrogate Legend**

BFB = 4-Bromofluorobenzene (Surr)

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

Matrix: Drinking Water

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	OTCSN1 (60-130)
380-136981-1	HALAWA WELLS UNITS 1 & 2 F	100
380-136981-1 MS	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	97
380-136981-1 MSD	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	94
380-136981-2	AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP400)	86

**Surrogate Legend**

OTCSN = n-Octacosane (Surr)

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

Matrix: Water

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	OTCSN1 (60-130)
LCS 570-537151/2-A	Lab Control Sample	87
LCSD 570-537151/3-A	Lab Control Sample Dup	89
MB 570-537151/1-A	Method Blank	93
MRL 570-537151/4-A	Lab Control Sample	95

# Surrogate Summary

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

Job ID: 380-136981-1  
SDG: Weekly

## Surrogate Legend

OTCSN = n-Octacosane (Surr)

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

# QC Sample Results

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

Job ID: 380-136981-1  
SDG: Weekly

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

**Lab Sample ID: MB 380-137708/21-A**  
**Matrix: Water**  
**Analysis Batch: 137782**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 137708**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.099		0.099	ug/L		02/25/25 07:06	02/25/25 16:11	1
2,4'-DDD	<0.099		0.099	ug/L		02/25/25 07:06	02/25/25 16:11	1
2,4'-DDE	<0.099		0.099	ug/L		02/25/25 07:06	02/25/25 16:11	1
2,4'-DDT	<0.099		0.099	ug/L		02/25/25 07:06	02/25/25 16:11	1
2,4-Dinitrotoluene	<0.099		0.099	ug/L		02/25/25 07:06	02/25/25 16:11	1
2,6-Dinitrotoluene	<0.099		0.099	ug/L		02/25/25 07:06	02/25/25 16:11	1
2-Methylnaphthalene	<0.099		0.099	ug/L		02/25/25 07:06	02/25/25 16:11	1
4,4'-DDD	<0.099		0.099	ug/L		02/25/25 07:06	02/25/25 16:11	1
4,4'-DDE	<0.099		0.099	ug/L		02/25/25 07:06	02/25/25 16:11	1
4,4'-DDT	<0.099		0.099	ug/L		02/25/25 07:06	02/25/25 16:11	1
Acenaphthene	<0.099		0.099	ug/L		02/25/25 07:06	02/25/25 16:11	1
Acenaphthylene	<0.099		0.099	ug/L		02/25/25 07:06	02/25/25 16:11	1
Acetochlor	<0.099		0.099	ug/L		02/25/25 07:06	02/25/25 16:11	1
Alachlor	<0.050		0.050	ug/L		02/25/25 07:06	02/25/25 16:11	1
alpha-BHC	<0.099		0.099	ug/L		02/25/25 07:06	02/25/25 16:11	1
alpha-Chlordane	<0.050		0.050	ug/L		02/25/25 07:06	02/25/25 16:11	1
Anthracene	<0.020		0.020	ug/L		02/25/25 07:06	02/25/25 16:11	1
Atrazine	<0.050		0.050	ug/L		02/25/25 07:06	02/25/25 16:11	1
Benz(a)anthracene	<0.050		0.050	ug/L		02/25/25 07:06	02/25/25 16:11	1
Benzo[a]pyrene	<0.020		0.020	ug/L		02/25/25 07:06	02/25/25 16:11	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		02/25/25 07:06	02/25/25 16:11	1
Benzo[g,h,i]perylene	<0.050		0.050	ug/L		02/25/25 07:06	02/25/25 16:11	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		02/25/25 07:06	02/25/25 16:11	1
beta-BHC	<0.099		0.099	ug/L		02/25/25 07:06	02/25/25 16:11	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		02/25/25 07:06	02/25/25 16:11	1
Bromacil	<0.099		0.099	ug/L		02/25/25 07:06	02/25/25 16:11	1
Butachlor	<0.050		0.050	ug/L		02/25/25 07:06	02/25/25 16:11	1
Butylbenzylphthalate	<0.50		0.50	ug/L		02/25/25 07:06	02/25/25 16:11	1
Chlorobenzilate	<0.099		0.099	ug/L		02/25/25 07:06	02/25/25 16:11	1
Chloroneb	<0.099		0.099	ug/L		02/25/25 07:06	02/25/25 16:11	1
Chlorothalonil (Draconil, Bravo)	<0.099		0.099	ug/L		02/25/25 07:06	02/25/25 16:11	1
Chlorpyrifos	<0.050		0.050	ug/L		02/25/25 07:06	02/25/25 16:11	1
Chrysene	<0.020		0.020	ug/L		02/25/25 07:06	02/25/25 16:11	1
delta-BHC	<0.099		0.099	ug/L		02/25/25 07:06	02/25/25 16:11	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		02/25/25 07:06	02/25/25 16:11	1
Dibenz(a,h)anthracene	<0.050		0.050	ug/L		02/25/25 07:06	02/25/25 16:11	1
Diclorvos (DDVP)	<0.050		0.050	ug/L		02/25/25 07:06	02/25/25 16:11	1
Dieldrin	<0.0099		0.0099	ug/L		02/25/25 07:06	02/25/25 16:11	1
Diethylphthalate	<0.50		0.50	ug/L		02/25/25 07:06	02/25/25 16:11	1
Dimethylphthalate	<0.50		0.50	ug/L		02/25/25 07:06	02/25/25 16:11	1
Di-n-butyl phthalate	<0.99		0.99	ug/L		02/25/25 07:06	02/25/25 16:11	1
Di-n-octyl phthalate	<0.099		0.099	ug/L		02/25/25 07:06	02/25/25 16:11	1
Endosulfan I (Alpha)	<0.099		0.099	ug/L		02/25/25 07:06	02/25/25 16:11	1
Endosulfan II (Beta)	<0.099		0.099	ug/L		02/25/25 07:06	02/25/25 16:11	1
Endosulfan sulfate	<0.099		0.099	ug/L		02/25/25 07:06	02/25/25 16:11	1
Endrin	<0.0099		0.0099	ug/L		02/25/25 07:06	02/25/25 16:11	1
Endrin aldehyde	<0.099		0.099	ug/L		02/25/25 07:06	02/25/25 16:11	1
EPTC	<0.099		0.099	ug/L		02/25/25 07:06	02/25/25 16:11	1

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# QC Sample Results

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

Job ID: 380-136981-1  
SDG: Weekly

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

**Lab Sample ID: MB 380-137708/21-A**

**Matrix: Water**

**Analysis Batch: 137782**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 137708**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.099		0.099	ug/L		02/25/25 07:06	02/25/25 16:11	1
Fluorene	<0.050		0.050	ug/L		02/25/25 07:06	02/25/25 16:11	1
gamma-Chlordane	<0.050		0.050	ug/L		02/25/25 07:06	02/25/25 16:11	1
Heptachlor	<0.0099	^3+	0.0099	ug/L		02/25/25 07:06	02/25/25 16:11	1
Heptachlor epoxide (isomer B)	<0.0099		0.0099	ug/L		02/25/25 07:06	02/25/25 16:11	1
Hexachlorobenzene	<0.050		0.050	ug/L		02/25/25 07:06	02/25/25 16:11	1
Hexachlorocyclopentadiene	<0.050		0.050	ug/L		02/25/25 07:06	02/25/25 16:11	1
Indeno[1,2,3-cd]pyrene	<0.050		0.050	ug/L		02/25/25 07:06	02/25/25 16:11	1
Isophorone	<0.099		0.099	ug/L		02/25/25 07:06	02/25/25 16:11	1
Lindane	<0.0099		0.0099	ug/L		02/25/25 07:06	02/25/25 16:11	1
Malathion	<0.099		0.099	ug/L		02/25/25 07:06	02/25/25 16:11	1
Methoxychlor	<0.050		0.050	ug/L		02/25/25 07:06	02/25/25 16:11	1
Metolachlor	<0.050		0.050	ug/L		02/25/25 07:06	02/25/25 16:11	1
Molinate	<0.099		0.099	ug/L		02/25/25 07:06	02/25/25 16:11	1
Naphthalene	<0.099		0.099	ug/L		02/25/25 07:06	02/25/25 16:11	1
Parathion	<0.099		0.099	ug/L		02/25/25 07:06	02/25/25 16:11	1
Pendimethalin (Penoxaline)	<0.099		0.099	ug/L		02/25/25 07:06	02/25/25 16:11	1
Phenanthrene	<0.040		0.040	ug/L		02/25/25 07:06	02/25/25 16:11	1
Propachlor	<0.050		0.050	ug/L		02/25/25 07:06	02/25/25 16:11	1
Pyrene	<0.050		0.050	ug/L		02/25/25 07:06	02/25/25 16:11	1
Simazine	<0.050		0.050	ug/L		02/25/25 07:06	02/25/25 16:11	1
Terbacil	<0.099		0.099	ug/L		02/25/25 07:06	02/25/25 16:11	1
Terbutylazine	<0.099		0.099	ug/L		02/25/25 07:06	02/25/25 16:11	1
Thiobencarb	<0.099		0.099	ug/L		02/25/25 07:06	02/25/25 16:11	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		02/25/25 07:06	02/25/25 16:11	1
trans-Nonachlor	<0.050		0.050	ug/L		02/25/25 07:06	02/25/25 16:11	1
Trifluralin	<0.099		0.099	ug/L		02/25/25 07:06	02/25/25 16:11	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	0.633	T J	ug/L		2.65	N/A	02/25/25 07:06	02/25/25 16:11	1
Decane	1.97	T J N	ug/L		2.92	124-18-5	02/25/25 07:06	02/25/25 16:11	1
9-Octadecenamide, (Z)-	2.54	T J N	ug/L		8.26	301-02-0	02/25/25 07:06	02/25/25 16:11	1
13-Docosenamide, (Z)-	1.97	T J N	ug/L		10.93	112-84-5	02/25/25 07:06	02/25/25 16:11	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	96		70 - 130	02/25/25 07:06	02/25/25 16:11	1
Perylene-d12	97		70 - 130	02/25/25 07:06	02/25/25 16:11	1
Triphenylphosphate	106		70 - 130	02/25/25 07:06	02/25/25 16:11	1

**Lab Sample ID: LCS 380-137708/23-A**

**Matrix: Water**

**Analysis Batch: 137782**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 137708**

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	1.97		ug/L		99	70 - 130
2,4'-DDE	1.99	2.00		ug/L		101	70 - 130
2,4'-DDT	1.99	1.95		ug/L		98	70 - 130

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-136981-1  
SDG: Weekly

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

**Lab Sample ID: LCS 380-137708/23-A**  
**Matrix: Water**  
**Analysis Batch: 137782**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 137708**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4-Dinitrotoluene	1.99	2.02		ug/L		102	70 - 130
2,6-Dinitrotoluene	1.99	2.00		ug/L		100	70 - 130
2-Methylnaphthalene	1.99	1.85		ug/L		93	70 - 130
4,4'-DDD	1.99	1.97		ug/L		99	70 - 130
4,4'-DDE	1.99	2.03		ug/L		102	70 - 130
4,4'-DDT	1.99	2.04		ug/L		103	70 - 130
Acenaphthene	1.99	1.96		ug/L		98	70 - 130
Acenaphthylene	1.99	1.90		ug/L		96	70 - 130
Acetochlor	1.99	2.06		ug/L		104	70 - 130
Alachlor	1.99	2.13		ug/L		107	70 - 130
alpha-BHC	1.99	1.85		ug/L		93	70 - 130
alpha-Chlordane	1.99	1.81		ug/L		91	70 - 130
Anthracene	1.99	1.70		ug/L		85	70 - 130
Atrazine	1.99	2.10		ug/L		106	70 - 130
Benz(a)anthracene	1.99	1.91		ug/L		96	70 - 130
Benzo[a]pyrene	1.99	1.92		ug/L		97	70 - 130
Benzo[b]fluoranthene	1.99	2.13		ug/L		107	70 - 130
Benzo[g,h,i]perylene	1.99	2.00		ug/L		100	70 - 130
Benzo[k]fluoranthene	1.99	2.00		ug/L		101	70 - 130
beta-BHC	1.99	1.93		ug/L		97	70 - 130
Bis(2-ethylhexyl) phthalate	1.99	1.89		ug/L		95	70 - 130
Bromacil	1.99	2.08		ug/L		105	70 - 130
Butachlor	1.99	2.02		ug/L		102	70 - 130
Butylbenzylphthalate	1.99	2.12		ug/L		107	70 - 130
Chlorobenzilate	1.99	1.95		ug/L		98	70 - 130
Chloroneb	1.99	2.12		ug/L		106	70 - 130
Chlorothalonil (Draconil, Bravo)	1.99	2.00		ug/L		101	70 - 130
Chlorpyrifos	1.99	2.05		ug/L		103	70 - 130
Chrysene	1.99	1.87		ug/L		94	70 - 130
delta-BHC	1.99	1.88		ug/L		94	70 - 130
Di(2-ethylhexyl)adipate	1.99	2.07		ug/L		104	70 - 130
Dibenz(a,h)anthracene	1.99	1.94		ug/L		97	70 - 130
Diclorvos (DDVP)	1.99	1.96		ug/L		98	70 - 130
Dieldrin	1.99	1.98		ug/L		100	70 - 130
Diethylphthalate	1.99	1.93		ug/L		97	70 - 130
Dimethylphthalate	1.99	1.95		ug/L		98	70 - 130
Di-n-butyl phthalate	3.98	4.11		ug/L		103	70 - 130
Di-n-octyl phthalate	1.99	1.79		ug/L		90	70 - 130
Endosulfan I (Alpha)	1.99	1.89		ug/L		95	70 - 130
Endosulfan II (Beta)	1.99	1.87		ug/L		94	70 - 130
Endosulfan sulfate	1.99	2.07		ug/L		104	70 - 130
Endrin	1.99	2.12		ug/L		106	70 - 130
Endrin aldehyde	1.99	1.90		ug/L		96	60 - 130
EPTC	1.99	1.94		ug/L		98	70 - 130
Fluoranthene	1.99	2.02		ug/L		102	70 - 130
Fluorene	1.99	1.89		ug/L		95	70 - 130
gamma-Chlordane	1.99	1.84		ug/L		93	70 - 130
Heptachlor	1.99	2.05		ug/L		103	70 - 130
Heptachlor epoxide (isomer B)	1.99	1.93		ug/L		97	70 - 130

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-136981-1  
SDG: Weekly

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

**Lab Sample ID: LCS 380-137708/23-A**  
**Matrix: Water**  
**Analysis Batch: 137782**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 137708**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Hexachlorobenzene	1.99	1.92		ug/L		96	70 - 130
Hexachlorocyclopentadiene	1.99	2.10		ug/L		106	70 - 130
Indeno[1,2,3-cd]pyrene	1.99	1.97		ug/L		99	70 - 130
Isophorone	1.99	1.82		ug/L		91	70 - 130
Lindane	1.99	1.95		ug/L		98	70 - 130
Malathion	1.99	2.02		ug/L		102	70 - 130
Methoxychlor	1.99	1.99		ug/L		100	70 - 130
Metolachlor	1.99	2.14		ug/L		107	70 - 130
Molinate	1.99	1.97		ug/L		99	70 - 130
Naphthalene	1.99	1.92		ug/L		96	70 - 130
Parathion	1.99	2.01		ug/L		101	70 - 130
Pendimethalin (Penoxaline)	1.99	1.95		ug/L		98	70 - 130
Phenanthrene	1.99	1.88		ug/L		95	70 - 130
Propachlor	1.99	2.04		ug/L		103	70 - 130
Pyrene	1.99	1.99		ug/L		100	70 - 130
Simazine	1.99	2.11		ug/L		106	70 - 130
Terbacil	1.99	2.19		ug/L		110	70 - 130
Terbutylazine	1.99	2.14		ug/L		107	70 - 130
Thiobencarb	1.99	2.00		ug/L		101	70 - 130
trans-Nonachlor	1.99	1.87		ug/L		94	70 - 130
Trifluralin	1.99	1.73		ug/L		87	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Nitro-m-xylene	97		70 - 130
Perylene-d12	98		70 - 130
Triphenylphosphate	106		70 - 130

**Lab Sample ID: MRL 380-137708/22-A**  
**Matrix: Water**  
**Analysis Batch: 137782**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 137708**

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	0.0991	0.106		ug/L		107	50 - 150
2,4'-DDD	0.0991	0.0902	J	ug/L		91	50 - 150
2,4'-DDE	0.0991	0.0989	J	ug/L		100	50 - 150
2,4'-DDT	0.0991	0.113		ug/L		114	50 - 150
2,4-Dinitrotoluene	0.0991	0.111		ug/L		112	50 - 150
2,6-Dinitrotoluene	0.0991	0.111		ug/L		112	50 - 150
2-Methylnaphthalene	0.0991	0.103		ug/L		104	50 - 150
4,4'-DDD	0.0991	0.105		ug/L		106	50 - 150
4,4'-DDE	0.0991	0.103		ug/L		104	50 - 150
4,4'-DDT	0.0991	0.125		ug/L		126	50 - 150
Acenaphthene	0.0991	0.0900	J	ug/L		91	50 - 150
Acenaphthylene	0.0991	0.0969	J	ug/L		98	50 - 150
Acetochlor	0.0991	0.115		ug/L		116	50 - 150
Alachlor	0.0495	0.0502		ug/L		101	50 - 150
alpha-BHC	0.0991	0.110		ug/L		111	50 - 150
alpha-Chlordane	0.0248	<0.029		ug/L		102	50 - 150

# QC Sample Results

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

Job ID: 380-136981-1  
SDG: Weekly

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

**Lab Sample ID: MRL 380-137708/22-A**  
**Matrix: Water**  
**Analysis Batch: 137782**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 137708**

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Anthracene	0.0198	0.0223		ug/L		113	50 - 150
Atrazine	0.0495	0.0518		ug/L		105	50 - 150
Benz(a)anthracene	0.0495	0.0566		ug/L		114	50 - 150
Benzo[a]pyrene	0.0198	0.0247		ug/L		125	50 - 150
Benzo[b]fluoranthene	0.0198	0.0201		ug/L		102	50 - 150
Benzo[g,h,i]perylene	0.0495	0.0479	J	ug/L		97	50 - 150
Benzo[k]fluoranthene	0.0198	0.0246		ug/L		124	50 - 150
beta-BHC	0.0991	0.122		ug/L		123	50 - 150
Bis(2-ethylhexyl) phthalate	0.594	0.572	J	ug/L		96	50 - 150
Bromacil	0.0991	0.121		ug/L		122	50 - 150
Butachlor	0.0495	0.0655		ug/L		132	50 - 150
Butylbenzylphthalate	0.495	0.596		ug/L		120	50 - 150
Chlorobenzilate	0.0991	0.110		ug/L		111	50 - 150
Chloroneb	0.0991	0.109		ug/L		110	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0991	0.108		ug/L		109	50 - 150
Chlorpyrifos	0.0495	0.0541		ug/L		109	50 - 150
Chrysene	0.0198	0.0201		ug/L		102	50 - 150
delta-BHC	0.0991	0.106		ug/L		107	50 - 150
Di(2-ethylhexyl)adipate	0.594	0.703		ug/L		118	50 - 150
Dibenz(a,h)anthracene	0.0495	0.0446	J	ug/L		90	50 - 150
Diclorvos (DDVP)	0.0495	0.0585		ug/L		118	50 - 150
Dieldrin	0.00991	0.0122		ug/L		123	50 - 150
Diethylphthalate	0.495	0.510		ug/L		103	50 - 150
Dimethylphthalate	0.495	0.523		ug/L		106	50 - 150
Di-n-butyl phthalate	0.495	0.707	J	ug/L		143	49 - 243
Di-n-octyl phthalate	0.0991	0.0936	J	ug/L		94	50 - 150
Endosulfan I (Alpha)	0.0991	0.0937	J	ug/L		95	50 - 150
Endosulfan II (Beta)	0.0991	0.102		ug/L		103	50 - 150
Endosulfan sulfate	0.0991	0.118		ug/L		119	50 - 150
Endrin	0.00991	0.0125		ug/L		126	50 - 150
Endrin aldehyde	0.0991	0.114		ug/L		115	50 - 150
EPTC	0.0991	0.0954	J	ug/L		96	50 - 150
Fluoranthene	0.0991	0.103		ug/L		104	50 - 150
Fluorene	0.0495	<0.050		ug/L		100	50 - 150
gamma-Chlordane	0.0248	0.0240	J	ug/L		97	50 - 150
Heptachlor	0.00991	0.0190	^3+	ug/L		192	50 - 150
Heptachlor epoxide (isomer B)	0.00991	0.0120		ug/L		122	50 - 150
Hexachlorobenzene	0.0495	0.0457	J	ug/L		92	50 - 150
Hexachlorocyclopentadiene	0.0495	0.0483	J	ug/L		98	50 - 150
Indeno[1,2,3-cd]pyrene	0.0495	0.0487	J	ug/L		98	50 - 150
Isophorone	0.0991	0.113		ug/L		114	50 - 150
Lindane	0.00991	0.0118		ug/L		119	50 - 150
Malathion	0.0991	0.120		ug/L		121	50 - 150
Methoxychlor	0.0495	0.0579		ug/L		117	50 - 150
Metolachlor	0.0495	0.0566		ug/L		114	50 - 150
Molinate	0.0991	0.104		ug/L		105	50 - 150
Naphthalene	0.0991	0.0936	J	ug/L		94	50 - 150
Parathion	0.0991	0.111		ug/L		112	50 - 150
Pendimethalin (Penoxaline)	0.0991	0.113		ug/L		114	50 - 150

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-136981-1  
SDG: Weekly

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

**Lab Sample ID: MRL 380-137708/22-A**  
**Matrix: Water**  
**Analysis Batch: 137782**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 137708**

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Phenanthrene	0.0396	0.0389	J	ug/L		98	50 - 150
Propachlor	0.0495	0.0526		ug/L		106	50 - 150
Pyrene	0.0495	0.0503		ug/L		102	50 - 150
Simazine	0.0495	0.0490	J	ug/L		99	50 - 150
Terbacil	0.0991	0.105		ug/L		106	50 - 150
Terbutylazine	0.0991	0.105		ug/L		106	50 - 150
Thiobencarb	0.0991	0.102		ug/L		103	50 - 150
trans-Nonachlor	0.0248	0.0263	J	ug/L		106	50 - 150
Trifluralin	0.0991	0.108		ug/L		109	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
2-Nitro-m-xylene	99		70 - 130
Perylene-d12	102		70 - 130
Triphenylphosphate	105		70 - 130

**Lab Sample ID: 380-135745-AJ-1-A MS**  
**Matrix: Water**  
**Analysis Batch: 137782**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 137708**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.096		1.93	1.84		ug/L		96	70 - 130
2,4'-DDD	<0.096		1.93	2.01		ug/L		104	70 - 130
2,4'-DDE	<0.096		1.93	2.06		ug/L		107	70 - 130
2,4'-DDT	<0.096		1.93	2.03		ug/L		105	70 - 130
2,4-Dinitrotoluene	<0.096		1.93	2.17		ug/L		112	70 - 130
2,6-Dinitrotoluene	<0.096		1.93	2.13		ug/L		110	70 - 130
2-Methylnaphthalene	<0.096		1.93	1.89		ug/L		98	70 - 130
4,4'-DDD	<0.096		1.93	2.03		ug/L		105	70 - 130
4,4'-DDE	<0.096		1.93	1.98		ug/L		102	70 - 130
4,4'-DDT	<0.096		1.93	2.10		ug/L		109	70 - 130
Acenaphthene	<0.096		1.93	1.97		ug/L		102	70 - 130
Acenaphthylene	<0.096		1.93	1.90		ug/L		98	70 - 130
Acetochlor	<0.096		1.93	2.13		ug/L		110	70 - 130
Alachlor	<0.048		1.93	2.11		ug/L		109	70 - 130
alpha-BHC	<0.096		1.93	1.88		ug/L		97	70 - 130
alpha-Chlordane	<0.048		1.93	1.86		ug/L		96	70 - 130
Anthracene	<0.019	F1	1.93	0.862	F1	ug/L		45	70 - 130
Atrazine	<0.048		1.93	2.04		ug/L		106	70 - 130
Benz(a)anthracene	<0.048		1.93	1.72		ug/L		89	70 - 130
Benzo[a]pyrene	<0.019		1.93	1.55		ug/L		81	70 - 130
Benzo[b]fluoranthene	<0.019		1.93	2.21		ug/L		114	70 - 130
Benzo[g,h,i]perylene	<0.048		1.93	2.03		ug/L		105	70 - 130
Benzo[k]fluoranthene	<0.019		1.93	1.97		ug/L		102	70 - 130
beta-BHC	<0.096		1.93	1.96		ug/L		102	70 - 130
Bis(2-ethylhexyl) phthalate	<0.58		1.93	1.87		ug/L		97	70 - 130
Bromacil	<0.096		1.93	2.13		ug/L		110	70 - 130
Butachlor	<0.048		1.93	2.17		ug/L		112	70 - 130
Butylbenzylphthalate	<0.48		1.93	2.16		ug/L		112	70 - 130



# QC Sample Results

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

Job ID: 380-136981-1  
SDG: Weekly

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

**Lab Sample ID: 380-135745-AJ-1-A MS**  
**Matrix: Water**  
**Analysis Batch: 137782**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 137708**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
Chlorobenzilate	<0.096		1.93	2.22		ug/L		115	70 - 130
Chloroneb	<0.096		1.93	1.94		ug/L		100	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.096		1.93	2.03		ug/L		105	70 - 130
Chlorpyrifos	<0.048		1.93	2.04		ug/L		106	70 - 130
Chrysene	<0.019		1.93	1.87		ug/L		97	70 - 130
delta-BHC	<0.096		1.93	1.90		ug/L		98	70 - 130
Di(2-ethylhexyl)adipate	<0.58		1.93	2.00		ug/L		103	70 - 130
Dibenz(a,h)anthracene	<0.048		1.93	1.99		ug/L		103	70 - 130
Diclorvos (DDVP)	<0.048		1.93	2.02		ug/L		105	70 - 130
Dieldrin	<0.0096		1.93	2.02		ug/L		105	70 - 130
Diethylphthalate	<0.48		1.93	1.98		ug/L		102	70 - 130
Dimethylphthalate	<0.48		1.93	1.96		ug/L		102	70 - 130
Di-n-butyl phthalate	<0.96		3.86	4.10		ug/L		101	70 - 130
Di-n-octyl phthalate	<0.096		1.93	1.75		ug/L		91	70 - 130
Endosulfan I (Alpha)	<0.096		1.93	1.94		ug/L		100	70 - 130
Endosulfan II (Beta)	<0.096		1.93	1.89		ug/L		98	70 - 130
Endosulfan sulfate	<0.096		1.93	2.05		ug/L		106	70 - 130
Endrin	<0.0096		1.93	2.15		ug/L		111	70 - 130
Endrin aldehyde	<0.096		1.93	1.76		ug/L		91	60 - 130
EPTC	<0.096		1.93	2.00		ug/L		104	70 - 130
Fluoranthene	<0.096		1.93	2.00		ug/L		104	70 - 130
Fluorene	<0.048		1.93	1.92		ug/L		99	70 - 130
gamma-Chlordane	<0.048		1.93	1.84		ug/L		96	70 - 130
Heptachlor	<0.0096	^3+	1.93	2.11		ug/L		109	70 - 130
Heptachlor epoxide (isomer B)	<0.0096		1.93	1.95		ug/L		101	70 - 130
Hexachlorobenzene	<0.048		1.93	1.92		ug/L		99	70 - 130
Hexachlorocyclopentadiene	<0.048		1.93	2.22		ug/L		113	70 - 130
Indeno[1,2,3-cd]pyrene	<0.048		1.93	2.10		ug/L		109	70 - 130
Isophorone	<0.096		1.93	1.86		ug/L		97	70 - 130
Lindane	<0.0096		1.93	2.00		ug/L		104	70 - 130
Malathion	<0.096		1.93	2.07		ug/L		107	70 - 130
Methoxychlor	<0.048		1.93	2.23		ug/L		115	70 - 130
Metolachlor	<0.048		1.93	2.16		ug/L		112	70 - 130
Molinate	<0.096		1.93	2.01		ug/L		104	70 - 130
Naphthalene	<0.096		1.93	1.93		ug/L		100	70 - 130
Parathion	<0.096		1.93	2.18		ug/L		113	70 - 130
Pendimethalin (Penoxaline)	<0.096		1.93	2.23		ug/L		115	70 - 130
Phenanthrene	<0.039		1.93	1.88		ug/L		97	70 - 130
Propachlor	<0.048		1.93	2.13		ug/L		110	70 - 130
Pyrene	<0.048		1.93	1.95		ug/L		101	70 - 130
Simazine	<0.048		1.93	2.01		ug/L		104	70 - 130
Terbacil	<0.096		1.93	2.19		ug/L		114	70 - 130
Terbutylazine	<0.096		1.93	2.16		ug/L		112	70 - 130
Thiobencarb	<0.096		1.93	2.05		ug/L		106	70 - 130
trans-Nonachlor	<0.048		1.93	1.86		ug/L		96	70 - 130
Trifluralin	<0.096		1.93	1.97		ug/L		102	70 - 130

# QC Sample Results

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

Job ID: 380-136981-1  
SDG: Weekly

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

**Lab Sample ID: 380-135745-AJ-1-A MS**  
**Matrix: Water**  
**Analysis Batch: 137782**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 137708**

<i>Surrogate</i>	<i>%Recovery</i>	<i>MS MS Qualifier</i>	<i>Limits</i>
2-Nitro-m-xylene	100		70 - 130
Perylene-d12	98		70 - 130
Triphenylphosphate	106		70 - 130

**Lab Sample ID: 380-136977-B-1-A DU**  
**Matrix: Water**  
**Analysis Batch: 137782**

**Client Sample ID: Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 137708**

<b>Analyte</b>	<b>Sample Result</b>	<b>Sample Qualifier</b>	<b>DU Result</b>	<b>DU Qualifier</b>	<b>Unit</b>	<b>D</b>	<b>RPD</b>	<b>Limit</b>
1-Methylnaphthalene	<0.097		<0.097		ug/L		NC	20
2,4'-DDD	<0.097		<0.097		ug/L		NC	20
2,4'-DDE	<0.097		<0.097		ug/L		NC	20
2,4'-DDT	<0.097		<0.097		ug/L		NC	20
2,4-Dinitrotoluene	<0.097		<0.097		ug/L		NC	20
2,6-Dinitrotoluene	<0.097		<0.097		ug/L		NC	20
2-Methylnaphthalene	<0.097		<0.097		ug/L		NC	20
4,4'-DDD	<0.097		<0.097		ug/L		NC	20
4,4'-DDE	<0.097		<0.097		ug/L		NC	20
4,4'-DDT	<0.097		<0.097		ug/L		NC	20
Acenaphthene	<0.097		<0.097		ug/L		NC	20
Acenaphthylene	<0.097		<0.097		ug/L		NC	20
Acetochlor	<0.097		<0.097		ug/L		NC	20
Alachlor	<0.048		<0.048		ug/L		NC	20
alpha-BHC	<0.097		<0.097		ug/L		NC	20
alpha-Chlordane	<0.048		<0.048		ug/L		NC	20
Anthracene	<0.019		<0.019		ug/L		NC	20
Atrazine	<0.048		<0.048		ug/L		NC	20
Benz(a)anthracene	<0.048		<0.048		ug/L		NC	20
Benzo[a]pyrene	<0.019		<0.019		ug/L		NC	20
Benzo[b]fluoranthene	<0.019		<0.019		ug/L		NC	20
Benzo[g,h,i]perylene	<0.048		<0.048		ug/L		NC	20
Benzo[k]fluoranthene	<0.019		<0.019		ug/L		NC	20
beta-BHC	<0.097		<0.097		ug/L		NC	20
Bis(2-ethylhexyl) phthalate	<0.58		<0.58		ug/L		NC	20
Bromacil	<0.097		<0.097		ug/L		NC	20
Butachlor	<0.048		<0.048		ug/L		NC	20
Butylbenzylphthalate	<0.48		<0.48		ug/L		NC	20
Chlorobenzilate	<0.097		<0.097		ug/L		NC	20
Chloroneb	<0.097		<0.097		ug/L		NC	20
Chlorothalonil (Draconil, Bravo)	<0.097		<0.097		ug/L		NC	20
Chlorpyrifos	<0.048		<0.048		ug/L		NC	20
Chrysene	<0.019		<0.019		ug/L		NC	20
delta-BHC	<0.097		<0.097		ug/L		NC	20
Di(2-ethylhexyl)adipate	<0.58		<0.58		ug/L		NC	20
Dibenz(a,h)anthracene	<0.048		<0.048		ug/L		NC	20
Diclorvos (DDVP)	<0.048		<0.048		ug/L		NC	20
Dieldrin	0.030		0.0281		ug/L		6	20
Diethylphthalate	<0.48		<0.48		ug/L		NC	20

# QC Sample Results

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

Job ID: 380-136981-1  
SDG: Weekly

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

**Lab Sample ID: 380-136977-B-1-A DU**  
**Matrix: Water**  
**Analysis Batch: 137782**

**Client Sample ID: Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 137708**

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Dimethylphthalate	<0.48		<0.48		ug/L		NC	20
Di-n-butyl phthalate	<0.97		<0.97		ug/L		NC	20
Di-n-octyl phthalate	<0.097		<0.097		ug/L		NC	20
Endosulfan I (Alpha)	<0.097		<0.097		ug/L		NC	20
Endosulfan II (Beta)	<0.097		<0.097		ug/L		NC	20
Endosulfan sulfate	<0.097		<0.097		ug/L		NC	20
Endrin	<0.0097		<0.0097		ug/L		NC	20
Endrin aldehyde	<0.097		<0.097		ug/L		NC	20
EPTC	<0.097		<0.097		ug/L		NC	20
Fluoranthene	<0.097		<0.097		ug/L		NC	20
Fluorene	<0.048		<0.048		ug/L		NC	20
gamma-Chlordane	<0.048		<0.048		ug/L		NC	20
Heptachlor	<0.0097	^3+	<0.0097		ug/L		NC	20
Heptachlor epoxide (isomer B)	<0.0097		<0.0097		ug/L		NC	20
Hexachlorobenzene	<0.048		<0.048		ug/L		NC	20
Hexachlorocyclopentadiene	<0.048		<0.048		ug/L		NC	20
Indeno[1,2,3-cd]pyrene	<0.048		<0.048		ug/L		NC	20
Isophorone	<0.097		<0.097		ug/L		NC	20
Lindane	<0.0097		<0.0097		ug/L		NC	20
Malathion	<0.097		<0.097		ug/L		NC	20
Methoxychlor	<0.048		<0.048		ug/L		NC	20
Metolachlor	<0.048		<0.048		ug/L		NC	20
Molinate	<0.097		<0.097		ug/L		NC	20
Naphthalene	<0.097		<0.097		ug/L		NC	20
Parathion	<0.097		<0.097		ug/L		NC	20
Pendimethalin (Penoxaline)	<0.097		<0.097		ug/L		NC	20
Phenanthrene	<0.039		<0.039		ug/L		NC	20
Propachlor	<0.048		<0.048		ug/L		NC	20
Pyrene	<0.048		<0.048		ug/L		NC	20
Simazine	<0.048		<0.048		ug/L		NC	20
Terbacil	<0.097		<0.097		ug/L		NC	20
Terbutylazine	<0.097		<0.097		ug/L		NC	20
Thiobencarb	<0.097		<0.097		ug/L		NC	20
Total Permethrin (mixed isomers)	<0.19		<0.19		ug/L		NC	20
trans-Nonachlor	<0.048		<0.048		ug/L		NC	20
Trifluralin	<0.097		<0.097		ug/L		NC	20

Surrogate	DU	DU	Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	99		70 - 130
Perylene-d12	99		70 - 130
Triphenylphosphate	103		70 - 130

**Lab Sample ID: MB 380-138013/21-A**  
**Matrix: Water**  
**Analysis Batch: 138419**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 138013**

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1-Methylnaphthalene	<0.097		0.097	ug/L		02/26/25 09:10	02/27/25 13:21	1

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# QC Sample Results

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

Job ID: 380-136981-1  
 SDG: Weekly

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

**Lab Sample ID: MB 380-138013/21-A**  
**Matrix: Water**  
**Analysis Batch: 138419**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 138013**

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
2,4'-DDD	<0.097		0.097	ug/L		02/26/25 09:10	02/27/25 13:21	1
2,4'-DDE	<0.097		0.097	ug/L		02/26/25 09:10	02/27/25 13:21	1
2,4'-DDT	<0.097		0.097	ug/L		02/26/25 09:10	02/27/25 13:21	1
2,4-Dinitrotoluene	<0.097		0.097	ug/L		02/26/25 09:10	02/27/25 13:21	1
2,6-Dinitrotoluene	<0.097		0.097	ug/L		02/26/25 09:10	02/27/25 13:21	1
2-Methylnaphthalene	<0.097		0.097	ug/L		02/26/25 09:10	02/27/25 13:21	1
4,4'-DDD	<0.097		0.097	ug/L		02/26/25 09:10	02/27/25 13:21	1
4,4'-DDE	<0.097		0.097	ug/L		02/26/25 09:10	02/27/25 13:21	1
4,4'-DDT	<0.097		0.097	ug/L		02/26/25 09:10	02/27/25 13:21	1
Acenaphthene	<0.097		0.097	ug/L		02/26/25 09:10	02/27/25 13:21	1
Acenaphthylene	<0.097		0.097	ug/L		02/26/25 09:10	02/27/25 13:21	1
Acetochlor	<0.097		0.097	ug/L		02/26/25 09:10	02/27/25 13:21	1
Alachlor	<0.049		0.049	ug/L		02/26/25 09:10	02/27/25 13:21	1
alpha-BHC	<0.097		0.097	ug/L		02/26/25 09:10	02/27/25 13:21	1
alpha-Chlordane	<0.049		0.049	ug/L		02/26/25 09:10	02/27/25 13:21	1
Anthracene	<0.019		0.019	ug/L		02/26/25 09:10	02/27/25 13:21	1
Atrazine	<0.049		0.049	ug/L		02/26/25 09:10	02/27/25 13:21	1
Benz(a)anthracene	<0.049		0.049	ug/L		02/26/25 09:10	02/27/25 13:21	1
Benzo[a]pyrene	<0.019		0.019	ug/L		02/26/25 09:10	02/27/25 13:21	1
Benzo[b]fluoranthene	<0.019		0.019	ug/L		02/26/25 09:10	02/27/25 13:21	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		02/26/25 09:10	02/27/25 13:21	1
Benzo[k]fluoranthene	<0.019		0.019	ug/L		02/26/25 09:10	02/27/25 13:21	1
beta-BHC	<0.097		0.097	ug/L		02/26/25 09:10	02/27/25 13:21	1
Bis(2-ethylhexyl) phthalate	<0.58		0.58	ug/L		02/26/25 09:10	02/27/25 13:21	1
Bromacil	<0.097		0.097	ug/L		02/26/25 09:10	02/27/25 13:21	1
Butachlor	<0.049		0.049	ug/L		02/26/25 09:10	02/27/25 13:21	1
Butylbenzylphthalate	<0.49		0.49	ug/L		02/26/25 09:10	02/27/25 13:21	1
Chlorobenzilate	<0.097		0.097	ug/L		02/26/25 09:10	02/27/25 13:21	1
Chloroneb	<0.097		0.097	ug/L		02/26/25 09:10	02/27/25 13:21	1
Chlorothalonil (Draconil, Bravo)	<0.097		0.097	ug/L		02/26/25 09:10	02/27/25 13:21	1
Chlorpyrifos	<0.049		0.049	ug/L		02/26/25 09:10	02/27/25 13:21	1
Chrysene	<0.019		0.019	ug/L		02/26/25 09:10	02/27/25 13:21	1
delta-BHC	<0.097		0.097	ug/L		02/26/25 09:10	02/27/25 13:21	1
Di(2-ethylhexyl)adipate	<0.58		0.58	ug/L		02/26/25 09:10	02/27/25 13:21	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		02/26/25 09:10	02/27/25 13:21	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		02/26/25 09:10	02/27/25 13:21	1
Dieldrin	<0.0097		0.0097	ug/L		02/26/25 09:10	02/27/25 13:21	1
Diethylphthalate	<0.49		0.49	ug/L		02/26/25 09:10	02/27/25 13:21	1
Dimethylphthalate	<0.49		0.49	ug/L		02/26/25 09:10	02/27/25 13:21	1
Di-n-butyl phthalate	<0.97		0.97	ug/L		02/26/25 09:10	02/27/25 13:21	1
Di-n-octyl phthalate	<0.097		0.097	ug/L		02/26/25 09:10	02/27/25 13:21	1
Endosulfan I (Alpha)	<0.097		0.097	ug/L		02/26/25 09:10	02/27/25 13:21	1
Endosulfan II (Beta)	<0.097		0.097	ug/L		02/26/25 09:10	02/27/25 13:21	1
Endosulfan sulfate	<0.097		0.097	ug/L		02/26/25 09:10	02/27/25 13:21	1
Endrin	<0.0097		0.0097	ug/L		02/26/25 09:10	02/27/25 13:21	1
Endrin aldehyde	<0.097		0.097	ug/L		02/26/25 09:10	02/27/25 13:21	1
EPTC	<0.097		0.097	ug/L		02/26/25 09:10	02/27/25 13:21	1
Fluoranthene	<0.097		0.097	ug/L		02/26/25 09:10	02/27/25 13:21	1
Fluorene	<0.049		0.049	ug/L		02/26/25 09:10	02/27/25 13:21	1

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# QC Sample Results

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

Job ID: 380-136981-1  
SDG: Weekly

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

**Lab Sample ID: MB 380-138013/21-A**  
**Matrix: Water**  
**Analysis Batch: 138419**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 138013**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
gamma-Chlordane	<0.049		0.049	ug/L		02/26/25 09:10	02/27/25 13:21	1
Heptachlor	<0.0097		0.0097	ug/L		02/26/25 09:10	02/27/25 13:21	1
Heptachlor epoxide (isomer B)	<0.0097		0.0097	ug/L		02/26/25 09:10	02/27/25 13:21	1
Hexachlorobenzene	<0.049		0.049	ug/L		02/26/25 09:10	02/27/25 13:21	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		02/26/25 09:10	02/27/25 13:21	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		02/26/25 09:10	02/27/25 13:21	1
Isophorone	<0.097		0.097	ug/L		02/26/25 09:10	02/27/25 13:21	1
Lindane	<0.0097		0.0097	ug/L		02/26/25 09:10	02/27/25 13:21	1
Malathion	<0.097		0.097	ug/L		02/26/25 09:10	02/27/25 13:21	1
Methoxychlor	<0.049		0.049	ug/L		02/26/25 09:10	02/27/25 13:21	1
Metolachlor	<0.049		0.049	ug/L		02/26/25 09:10	02/27/25 13:21	1
Molinate	<0.097		0.097	ug/L		02/26/25 09:10	02/27/25 13:21	1
Naphthalene	<0.097		0.097	ug/L		02/26/25 09:10	02/27/25 13:21	1
Parathion	<0.097		0.097	ug/L		02/26/25 09:10	02/27/25 13:21	1
Pendimethalin (Penoxaline)	<0.097		0.097	ug/L		02/26/25 09:10	02/27/25 13:21	1
Phenanthrene	<0.039		0.039	ug/L		02/26/25 09:10	02/27/25 13:21	1
Propachlor	<0.049		0.049	ug/L		02/26/25 09:10	02/27/25 13:21	1
Pyrene	<0.049		0.049	ug/L		02/26/25 09:10	02/27/25 13:21	1
Simazine	<0.049		0.049	ug/L		02/26/25 09:10	02/27/25 13:21	1
Terbacil	<0.097		0.097	ug/L		02/26/25 09:10	02/27/25 13:21	1
Terbutylazine	<0.097		0.097	ug/L		02/26/25 09:10	02/27/25 13:21	1
Thiobencarb	<0.097		0.097	ug/L		02/26/25 09:10	02/27/25 13:21	1
Total Permethrin (mixed isomers)	<0.19		0.19	ug/L		02/26/25 09:10	02/27/25 13:21	1
trans-Nonachlor	<0.049		0.049	ug/L		02/26/25 09:10	02/27/25 13:21	1
Trifluralin	<0.097		0.097	ug/L		02/26/25 09:10	02/27/25 13:21	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	0.554	T J	ug/L		4.65	N/A	02/26/25 09:10	02/27/25 13:21	1
9-Octadecenamamide, (Z)-	3.65	T J N	ug/L		7.76	301-02-0	02/26/25 09:10	02/27/25 13:21	1
Unknown	0.585	T J	ug/L		9.76	N/A	02/26/25 09:10	02/27/25 13:21	1
13-Docosenamamide, (Z)-	3.55	T J N	ug/L		10.25	112-84-5	02/26/25 09:10	02/27/25 13:21	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	99		70 - 130	02/26/25 09:10	02/27/25 13:21	1
Perylene-d12	98		70 - 130	02/26/25 09:10	02/27/25 13:21	1
Triphenylphosphate	110		70 - 130	02/26/25 09:10	02/27/25 13:21	1

**Lab Sample ID: LCS 380-138013/23-A**  
**Matrix: Water**  
**Analysis Batch: 138419**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 138013**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	1.95	1.71		ug/L		88	70 - 130
2,4'-DDD	1.95	2.06		ug/L		106	70 - 130
2,4'-DDE	1.95	1.97		ug/L		101	70 - 130
2,4'-DDT	1.95	2.06		ug/L		106	70 - 130
2,4-Dinitrotoluene	1.95	1.90		ug/L		98	70 - 130
2,6-Dinitrotoluene	1.95	1.88		ug/L		97	70 - 130

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-136981-1  
SDG: Weekly

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

**Lab Sample ID: LCS 380-138013/23-A**  
**Matrix: Water**  
**Analysis Batch: 138419**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 138013**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Methylnaphthalene	1.95	1.76		ug/L		91	70 - 130
4,4'-DDD	1.95	2.06		ug/L		106	70 - 130
4,4'-DDE	1.95	1.98		ug/L		102	70 - 130
4,4'-DDT	1.95	2.15		ug/L		111	70 - 130
Acenaphthene	1.95	1.88		ug/L		97	70 - 130
Acenaphthylene	1.95	1.91		ug/L		98	70 - 130
Acetochlor	1.95	1.97		ug/L		101	70 - 130
Alachlor	1.95	2.07		ug/L		107	70 - 130
alpha-BHC	1.95	1.96		ug/L		101	70 - 130
alpha-Chlordane	1.95	1.98		ug/L		102	70 - 130
Anthracene	1.95	1.78		ug/L		91	70 - 130
Atrazine	1.95	2.16		ug/L		111	70 - 130
Benz(a)anthracene	1.95	2.05		ug/L		105	70 - 130
Benzo[a]pyrene	1.95	2.02		ug/L		104	70 - 130
Benzo[b]fluoranthene	1.95	1.94		ug/L		100	70 - 130
Benzo[g,h,i]perylene	1.95	2.05		ug/L		105	70 - 130
Benzo[k]fluoranthene	1.95	2.09		ug/L		107	70 - 130
beta-BHC	1.95	2.01		ug/L		103	70 - 130
Bis(2-ethylhexyl) phthalate	1.95	1.92		ug/L		99	70 - 130
Bromacil	1.95	1.97		ug/L		101	70 - 130
Butachlor	1.95	2.14		ug/L		110	70 - 130
Butylbenzylphthalate	1.95	2.24		ug/L		115	70 - 130
Chlorobenzilate	1.95	2.05		ug/L		105	70 - 130
Chloroneb	1.95	2.06		ug/L		106	70 - 130
Chlorothalonil (Draconil, Bravo)	1.95	2.18		ug/L		112	70 - 130
Chlorpyrifos	1.95	2.04		ug/L		105	70 - 130
Chrysene	1.95	1.87		ug/L		96	70 - 130
delta-BHC	1.95	1.87		ug/L		96	70 - 130
Di(2-ethylhexyl)adipate	1.95	2.25		ug/L		116	70 - 130
Dibenz(a,h)anthracene	1.95	2.02		ug/L		104	70 - 130
Diclorvos (DDVP)	1.95	1.87		ug/L		96	70 - 130
Dieldrin	1.95	1.98		ug/L		102	70 - 130
Diethylphthalate	1.95	2.02		ug/L		104	70 - 130
Dimethylphthalate	1.95	1.98		ug/L		102	70 - 130
Di-n-butyl phthalate	3.89	4.34		ug/L		111	70 - 130
Di-n-octyl phthalate	1.95	1.87		ug/L		96	70 - 130
Endosulfan I (Alpha)	1.95	1.96		ug/L		101	70 - 130
Endosulfan II (Beta)	1.95	2.16		ug/L		111	70 - 130
Endosulfan sulfate	1.95	2.01		ug/L		103	70 - 130
Endrin	1.95	1.95		ug/L		100	70 - 130
Endrin aldehyde	1.95	1.95		ug/L		100	60 - 130
EPTC	1.95	1.98		ug/L		101	70 - 130
Fluoranthene	1.95	2.08		ug/L		107	70 - 130
Fluorene	1.95	1.94		ug/L		100	70 - 130
gamma-Chlordane	1.95	1.93		ug/L		99	70 - 130
Heptachlor	1.95	1.98		ug/L		102	70 - 130
Heptachlor epoxide (isomer B)	1.95	2.00		ug/L		103	70 - 130
Hexachlorobenzene	1.95	1.91		ug/L		98	70 - 130
Hexachlorocyclopentadiene	1.95	2.00		ug/L		103	70 - 130

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-136981-1  
SDG: Weekly

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

**Lab Sample ID: LCS 380-138013/23-A**  
**Matrix: Water**  
**Analysis Batch: 138419**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 138013**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Indeno[1,2,3-cd]pyrene	1.95	1.94		ug/L		100	70 - 130
Isophorone	1.95	1.93		ug/L		99	70 - 130
Lindane	1.95	1.74		ug/L		89	70 - 130
Malathion	1.95	2.17		ug/L		111	70 - 130
Methoxychlor	1.95	1.95		ug/L		100	70 - 130
Metolachlor	1.95	2.14		ug/L		110	70 - 130
Molinate	1.95	2.03		ug/L		104	70 - 130
Naphthalene	1.95	1.91		ug/L		98	70 - 130
Parathion	1.95	2.03		ug/L		104	70 - 130
Pendimethalin (Penoxaline)	1.95	2.07		ug/L		106	70 - 130
Phenanthrene	1.95	1.84		ug/L		95	70 - 130
Propachlor	1.95	1.98		ug/L		102	70 - 130
Pyrene	1.95	2.08		ug/L		107	70 - 130
Simazine	1.95	2.06		ug/L		106	70 - 130
Terbacil	1.95	1.85		ug/L		95	70 - 130
Terbutylazine	1.95	2.12		ug/L		109	70 - 130
Thiobencarb	1.95	2.09		ug/L		107	70 - 130
trans-Nonachlor	1.95	1.98		ug/L		102	70 - 130
Trifluralin	1.95	1.93		ug/L		99	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Nitro-m-xylene	97		70 - 130
Perylene-d12	99		70 - 130
Triphenylphosphate	109		70 - 130

**Lab Sample ID: LCSD 380-138013/24-A**  
**Matrix: Water**  
**Analysis Batch: 138419**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 138013**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	1.93	1.70		ug/L		88	70 - 130	0	20
2,4'-DDD	1.93	2.05		ug/L		106	70 - 130	0	20
2,4'-DDE	1.93	1.98		ug/L		103	70 - 130	0	20
2,4'-DDT	1.93	2.08		ug/L		108	70 - 130	1	20
2,4-Dinitrotoluene	1.93	2.00		ug/L		103	70 - 130	5	20
2,6-Dinitrotoluene	1.93	1.96		ug/L		101	70 - 130	4	20
2-Methylnaphthalene	1.93	1.75		ug/L		91	70 - 130	1	20
4,4'-DDD	1.93	2.08		ug/L		108	70 - 130	1	20
4,4'-DDE	1.93	2.02		ug/L		105	70 - 130	2	20
4,4'-DDT	1.93	2.21		ug/L		115	70 - 130	3	20
Acenaphthene	1.93	1.88		ug/L		97	70 - 130	0	20
Acenaphthylene	1.93	1.95		ug/L		101	70 - 130	2	20
Acetochlor	1.93	2.04		ug/L		105	70 - 130	3	20
Alachlor	1.93	2.09		ug/L		108	70 - 130	1	20
alpha-BHC	1.93	1.95		ug/L		101	70 - 130	1	20
alpha-Chlordane	1.93	2.01		ug/L		104	70 - 130	2	20
Anthracene	1.93	1.82		ug/L		94	70 - 130	2	20
Atrazine	1.93	2.20		ug/L		114	70 - 130	2	20

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-136981-1  
SDG: Weekly

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

**Lab Sample ID: LCSD 380-138013/24-A**  
**Matrix: Water**  
**Analysis Batch: 138419**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 138013**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Benz(a)anthracene	1.93	2.04		ug/L		106	70 - 130	1	20	
Benzo[a]pyrene	1.93	1.98		ug/L		103	70 - 130	2	20	
Benzo[b]fluoranthene	1.93	2.10		ug/L		109	70 - 130	8	20	
Benzo[g,h,i]perylene	1.93	2.12		ug/L		110	70 - 130	3	20	
Benzo[k]fluoranthene	1.93	1.94		ug/L		100	70 - 130	8	20	
beta-BHC	1.93	2.07		ug/L		107	70 - 130	3	20	
Bis(2-ethylhexyl) phthalate	1.93	2.13		ug/L		110	70 - 130	10	20	
Bromacil	1.93	2.05		ug/L		106	70 - 130	4	20	
Butachlor	1.93	2.17		ug/L		112	70 - 130	1	20	
Butylbenzylphthalate	1.93	2.30		ug/L		119	70 - 130	3	20	
Chlorobenzilate	1.93	2.04		ug/L		106	70 - 130	0	20	
Chloroneb	1.93	2.08		ug/L		108	70 - 130	1	20	
Chlorothalonil (Draconil, Bravo)	1.93	2.22		ug/L		115	70 - 130	2	20	
Chlorpyrifos	1.93	2.08		ug/L		108	70 - 130	2	20	
Chrysene	1.93	1.93		ug/L		100	70 - 130	3	20	
delta-BHC	1.93	1.91		ug/L		99	70 - 130	2	20	
Di(2-ethylhexyl)adipate	1.93	2.33		ug/L		121	70 - 130	3	20	
Dibenz(a,h)anthracene	1.93	2.04		ug/L		106	70 - 130	1	20	
Diclorvos (DDVP)	1.93	1.91		ug/L		99	70 - 130	2	20	
Dieldrin	1.93	1.95		ug/L		101	70 - 130	2	20	
Diethylphthalate	1.93	2.06		ug/L		107	70 - 130	2	20	
Dimethylphthalate	1.93	2.02		ug/L		105	70 - 130	2	20	
Di-n-butyl phthalate	3.86	4.45		ug/L		115	70 - 130	2	20	
Di-n-octyl phthalate	1.93	2.04		ug/L		106	70 - 130	9	20	
Endosulfan I (Alpha)	1.93	2.01		ug/L		104	70 - 130	2	20	
Endosulfan II (Beta)	1.93	2.24		ug/L		116	70 - 130	4	20	
Endosulfan sulfate	1.93	2.03		ug/L		105	70 - 130	1	20	
Endrin	1.93	1.97		ug/L		102	70 - 130	1	20	
Endrin aldehyde	1.93	1.94		ug/L		100	60 - 130	1	20	
EPTC	1.93	1.98		ug/L		103	70 - 130	0	20	
Fluoranthene	1.93	2.07		ug/L		107	70 - 130	1	20	
Fluorene	1.93	1.92		ug/L		100	70 - 130	1	20	
gamma-Chlordane	1.93	1.94		ug/L		100	70 - 130	0	20	
Heptachlor	1.93	1.96		ug/L		101	70 - 130	1	20	
Heptachlor epoxide (isomer B)	1.93	1.99		ug/L		103	70 - 130	0	20	
Hexachlorobenzene	1.93	1.86		ug/L		96	70 - 130	3	20	
Hexachlorocyclopentadiene	1.93	1.99		ug/L		103	70 - 130	0	20	
Indeno[1,2,3-cd]pyrene	1.93	2.08		ug/L		108	70 - 130	7	20	
Isophorone	1.93	1.95		ug/L		101	70 - 130	1	20	
Lindane	1.93	1.73		ug/L		89	70 - 130	1	20	
Malathion	1.93	2.26		ug/L		117	70 - 130	4	20	
Methoxychlor	1.93	2.02		ug/L		105	70 - 130	3	20	
Metolachlor	1.93	2.18		ug/L		113	70 - 130	2	20	
Molinate	1.93	2.05		ug/L		106	70 - 130	1	20	
Naphthalene	1.93	1.89		ug/L		98	70 - 130	1	20	
Parathion	1.93	2.05		ug/L		106	70 - 130	1	20	
Pendimethalin (Penoxaline)	1.93	2.08		ug/L		108	70 - 130	1	20	
Phenanthrene	1.93	1.81		ug/L		94	70 - 130	2	20	
Propachlor	1.93	2.02		ug/L		105	70 - 130	2	20	

Eurofins Eaton Analytical Pomona



# QC Sample Results

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

Job ID: 380-136981-1  
SDG: Weekly

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

**Lab Sample ID: LCSD 380-138013/24-A**  
**Matrix: Water**  
**Analysis Batch: 138419**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 138013**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Pyrene	1.93	2.06		ug/L		107	70 - 130	1	20	
Simazine	1.93	2.16		ug/L		112	70 - 130	5	20	
Terbacil	1.93	1.94		ug/L		100	70 - 130	5	20	
Terbutylazine	1.93	2.15		ug/L		111	70 - 130	1	20	
Thiobencarb	1.93	2.12		ug/L		110	70 - 130	1	20	
trans-Nonachlor	1.93	1.99		ug/L		103	70 - 130	0	20	
Trifluralin	1.93	1.99		ug/L		103	70 - 130	3	20	

  

Surrogate	%Recovery	LCSD Qualifier	Limits
Perylene-d12	103		70 - 130
Triphenylphosphate	110		70 - 130

**Lab Sample ID: MRL 380-138013/22-A**  
**Matrix: Water**  
**Analysis Batch: 138419**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 138013**

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec	
							Limits	RPD
1-Methylnaphthalene	0.0972	0.101		ug/L		104	50 - 150	
2,4'-DDD	0.0972	0.0933	J	ug/L		96	50 - 150	
2,4'-DDE	0.0972	0.100		ug/L		103	50 - 150	
2,4'-DDT	0.0972	0.0992		ug/L		102	50 - 150	
2,4-Dinitrotoluene	0.0972	0.117		ug/L		120	50 - 150	
2,6-Dinitrotoluene	0.0972	0.108		ug/L		112	50 - 150	
2-Methylnaphthalene	0.0972	0.0971		ug/L		100	50 - 150	
4,4'-DDD	0.0972	0.106		ug/L		109	50 - 150	
4,4'-DDE	0.0972	0.103		ug/L		106	50 - 150	
4,4'-DDT	0.0972	0.104		ug/L		107	50 - 150	
Acenaphthene	0.0972	0.0939	J	ug/L		97	50 - 150	
Acenaphthylene	0.0972	0.0923	J	ug/L		95	50 - 150	
Acetochlor	0.0972	0.114		ug/L		117	50 - 150	
Alachlor	0.0486	0.0491		ug/L		101	50 - 150	
alpha-BHC	0.0972	0.117		ug/L		120	50 - 150	
alpha-Chlordane	0.0243	0.0282	J	ug/L		116	50 - 150	
Anthracene	0.0194	0.0227		ug/L		117	50 - 150	
Atrazine	0.0486	0.0548		ug/L		113	50 - 150	
Benz(a)anthracene	0.0486	0.0566		ug/L		117	50 - 150	
Benzo[a]pyrene	0.0194	0.0192		ug/L		99	50 - 150	
Benzo[b]fluoranthene	0.0194	0.0177	J	ug/L		91	50 - 150	
Benzo[g,h,i]perylene	0.0486	0.0429	J	ug/L		88	50 - 150	
Benzo[k]fluoranthene	0.0194	0.0192		ug/L		99	50 - 150	
beta-BHC	0.0972	0.120		ug/L		123	50 - 150	
Bis(2-ethylhexyl) phthalate	0.583	0.574	J	ug/L		98	50 - 150	
Bromacil	0.0972	0.0828	J	ug/L		85	50 - 150	
Butachlor	0.0486	0.0498		ug/L		103	50 - 150	
Butylbenzylphthalate	0.486	0.571		ug/L		118	50 - 150	
Chlorobenzilate	0.0972	0.0935	J	ug/L		96	50 - 150	
Chloroneb	0.0972	0.0875	J	ug/L		90	50 - 150	

# QC Sample Results

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

Job ID: 380-136981-1  
SDG: Weekly

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

**Lab Sample ID: MRL 380-138013/22-A**  
**Matrix: Water**  
**Analysis Batch: 138419**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 138013**

Analyte	Spike Added	MRL	MRL	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Chlorothalonil (Draconil, Bravo)	0.0972	0.0900	J	ug/L		93	50 - 150
Chlorpyrifos	0.0486	0.0522		ug/L		107	50 - 150
Chrysene	0.0194	0.0205		ug/L		106	50 - 150
delta-BHC	0.0972	0.104		ug/L		108	50 - 150
Di(2-ethylhexyl)adipate	0.583	0.694		ug/L		119	50 - 150
Dibenz(a,h)anthracene	0.0486	0.0472	J	ug/L		97	50 - 150
Diclorvos (DDVP)	0.0486	0.0567		ug/L		117	50 - 150
Dieldrin	0.00972	0.0124		ug/L		127	50 - 150
Diethylphthalate	0.486	0.524		ug/L		108	50 - 150
Dimethylphthalate	0.486	0.521		ug/L		107	50 - 150
Di-n-butyl phthalate	0.486	0.695	J	ug/L		143	49 - 243
Di-n-octyl phthalate	0.0972	0.0918	J	ug/L		94	50 - 150
Endosulfan I (Alpha)	0.0972	0.141		ug/L		145	50 - 150
Endosulfan II (Beta)	0.0972	0.116		ug/L		120	50 - 150
Endosulfan sulfate	0.0972	0.108		ug/L		111	50 - 150
Endrin	0.00972	0.0140		ug/L		144	50 - 150
Endrin aldehyde	0.0972	0.100		ug/L		103	50 - 150
EPTC	0.0972	0.0991		ug/L		102	50 - 150
Fluoranthene	0.0972	0.102		ug/L		105	50 - 150
Fluorene	0.0486	0.0498		ug/L		103	50 - 150
gamma-Chlordane	0.0243	0.0261	J	ug/L		107	50 - 150
Heptachlor	0.00972	0.0115		ug/L		119	50 - 150
Heptachlor epoxide (isomer B)	0.00972	0.0104		ug/L		107	50 - 150
Hexachlorobenzene	0.0486	0.0428	J	ug/L		88	50 - 150
Hexachlorocyclopentadiene	0.0486	0.0435	J	ug/L		90	50 - 150
Indeno[1,2,3-cd]pyrene	0.0486	0.0439	J	ug/L		90	50 - 150
Isophorone	0.0972	0.118		ug/L		121	50 - 150
Lindane	0.00972	0.0135		ug/L		139	50 - 150
Malathion	0.0972	0.0926	J	ug/L		95	50 - 150
Methoxychlor	0.0486	0.0547		ug/L		113	50 - 150
Metolachlor	0.0486	0.0573		ug/L		118	50 - 150
Molinate	0.0972	0.108		ug/L		111	50 - 150
Naphthalene	0.0972	0.0981		ug/L		101	50 - 150
Parathion	0.0972	0.0864	J	ug/L		89	50 - 150
Pendimethalin (Penoxaline)	0.0972	0.0953	J	ug/L		98	50 - 150
Phenanthrene	0.0389	0.0419		ug/L		108	50 - 150
Propachlor	0.0486	0.0526		ug/L		108	50 - 150
Pyrene	0.0486	0.0486	J	ug/L		100	50 - 150
Simazine	0.0486	0.0542		ug/L		111	50 - 150
Terbacil	0.0972	0.0904	J	ug/L		93	50 - 150
Terbutylazine	0.0972	0.105		ug/L		108	50 - 150
Thiobencarb	0.0972	0.102		ug/L		105	50 - 150
trans-Nonachlor	0.0243	<0.025		ug/L		102	50 - 150
Trifluralin	0.0972	0.0987		ug/L		102	50 - 150

Surrogate	MRL		Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	99		70 - 130
Perylene-d12	94		70 - 130

# QC Sample Results

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

Job ID: 380-136981-1  
SDG: Weekly

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

**Lab Sample ID: MRL 380-138013/22-A**  
**Matrix: Water**  
**Analysis Batch: 138419**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 138013**

Surrogate	MRL %Recovery	MRL Qualifier	Limits
Triphenylphosphate	105		70 - 130

**Lab Sample ID: 380-137440-W-3-A MS**  
**Matrix: Water**  
**Analysis Batch: 138419**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 138013**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
1-Methylnaphthalene	<0.096		1.94	1.75		ug/L		90	70 - 130
2,4'-DDD	<0.096		1.94	2.00		ug/L		103	70 - 130
2,4'-DDE	<0.096		1.94	1.90		ug/L		98	70 - 130
2,4'-DDT	<0.096		1.94	1.92		ug/L		99	70 - 130
2,4-Dinitrotoluene	<0.096		1.94	2.05		ug/L		106	70 - 130
2,6-Dinitrotoluene	<0.096		1.94	2.01		ug/L		104	70 - 130
2-Methylnaphthalene	<0.096		1.94	1.80		ug/L		92	70 - 130
4,4'-DDD	<0.096		1.94	2.02		ug/L		104	70 - 130
4,4'-DDE	<0.096		1.94	1.83		ug/L		95	70 - 130
4,4'-DDT	<0.096		1.94	1.96		ug/L		101	70 - 130
Acenaphthene	<0.096		1.94	1.91		ug/L		98	70 - 130
Acenaphthylene	<0.096		1.94	1.96		ug/L		101	70 - 130
Acetochlor	<0.096		1.94	2.11		ug/L		109	70 - 130
Alachlor	<0.048		1.94	2.07		ug/L		107	70 - 130
alpha-BHC	<0.096		1.94	1.95		ug/L		101	70 - 130
alpha-Chlordane	<0.048		1.94	1.95		ug/L		101	70 - 130
Anthracene	<0.019	F1	1.94	1.06	F1	ug/L		55	70 - 130
Atrazine	<0.048		1.94	2.07		ug/L		107	70 - 130
Benz(a)anthracene	<0.048		1.94	1.80		ug/L		93	70 - 130
Benzo[a]pyrene	<0.019		1.94	1.67		ug/L		86	70 - 130
Benzo[b]fluoranthene	<0.019		1.94	2.02		ug/L		104	70 - 130
Benzo[g,h,i]perylene	<0.048		1.94	2.03		ug/L		105	70 - 130
Benzo[k]fluoranthene	<0.019		1.94	1.99		ug/L		103	70 - 130
beta-BHC	<0.096		1.94	2.00		ug/L		103	70 - 130
Bis(2-ethylhexyl) phthalate	<0.58		1.94	1.78		ug/L		92	70 - 130
Bromacil	<0.096		1.94	2.03		ug/L		105	70 - 130
Butachlor	<0.048		1.94	2.17		ug/L		112	70 - 130
Butylbenzylphthalate	<0.48		1.94	2.28		ug/L		118	70 - 130
Chlorobenzilate	<0.096		1.94	2.03		ug/L		105	70 - 130
Chloroneb	<0.096		1.94	1.98		ug/L		102	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.096		1.94	2.19		ug/L		113	70 - 130
Chlorpyrifos	<0.048		1.94	2.06		ug/L		106	70 - 130
Chrysene	<0.019		1.94	1.94		ug/L		100	70 - 130
delta-BHC	<0.096		1.94	1.91		ug/L		98	70 - 130
Di(2-ethylhexyl)adipate	<0.58		1.94	1.92		ug/L		99	70 - 130
Dibenz(a,h)anthracene	<0.048		1.94	1.95		ug/L		100	70 - 130
Diclorvos (DDVP)	<0.048		1.94	1.94		ug/L		100	70 - 130
Dieldrin	<0.0096		1.94	2.04		ug/L		105	70 - 130
Diethylphthalate	<0.48		1.94	2.05		ug/L		106	70 - 130
Dimethylphthalate	<0.48		1.94	2.05		ug/L		106	70 - 130
Di-n-butyl phthalate	<0.96		3.88	4.40		ug/L		108	70 - 130

# QC Sample Results

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

Job ID: 380-136981-1  
SDG: Weekly

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

**Lab Sample ID: 380-137440-W-3-A MS**  
**Matrix: Water**  
**Analysis Batch: 138419**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 138013**

Analyte	Sample	Sample Qualifier	Spike Added	MS	MS	Unit	D	%Rec	%Rec Limits
	Result			Result	Qualifier				
Di-n-octyl phthalate	<0.096		1.94	1.60		ug/L		82	70 - 130
Endosulfan I (Alpha)	<0.096		1.94	2.05		ug/L		106	70 - 130
Endosulfan II (Beta)	<0.096		1.94	2.02		ug/L		104	70 - 130
Endosulfan sulfate	<0.096		1.94	2.05		ug/L		106	70 - 130
Endrin	<0.0096		1.94	2.00		ug/L		103	70 - 130
Endrin aldehyde	<0.096		1.94	1.79		ug/L		92	60 - 130
EPTC	<0.096		1.94	2.03		ug/L		105	70 - 130
Fluoranthene	<0.096		1.94	2.09		ug/L		108	70 - 130
Fluorene	<0.048		1.94	1.94		ug/L		100	70 - 130
gamma-Chlordane	<0.048		1.94	1.92		ug/L		99	70 - 130
Heptachlor	<0.0096		1.94	2.03		ug/L		105	70 - 130
Heptachlor epoxide (isomer B)	<0.0096		1.94	2.03		ug/L		105	70 - 130
Hexachlorobenzene	<0.048		1.94	1.88		ug/L		97	70 - 130
Hexachlorocyclopentadiene	<0.048		1.94	2.07		ug/L		107	70 - 130
Indeno[1,2,3-cd]pyrene	<0.048		1.94	1.98		ug/L		102	70 - 130
Isophorone	<0.096		1.94	1.97		ug/L		101	70 - 130
Lindane	<0.0096		1.94	1.71		ug/L		88	70 - 130
Malathion	<0.096		1.94	2.24		ug/L		116	70 - 130
Methoxychlor	<0.048		1.94	2.24		ug/L		116	70 - 130
Metolachlor	<0.048		1.94	2.18		ug/L		112	70 - 130
Molinate	<0.096		1.94	2.06		ug/L		106	70 - 130
Naphthalene	<0.096		1.94	1.95		ug/L		100	70 - 130
Parathion	<0.096		1.94	2.08		ug/L		107	70 - 130
Pendimethalin (Penoxaline)	<0.096		1.94	2.17		ug/L		112	70 - 130
Phenanthrene	<0.039		1.94	1.85		ug/L		95	70 - 130
Propachlor	<0.048		1.94	2.05		ug/L		106	70 - 130
Pyrene	<0.048		1.94	2.06		ug/L		106	70 - 130
Simazine	<0.048		1.94	2.09		ug/L		108	70 - 130
Terbacil	<0.096		1.94	1.94		ug/L		100	70 - 130
Terbutylazine	<0.096		1.94	2.12		ug/L		109	70 - 130
Thiobencarb	<0.096		1.94	2.13		ug/L		110	70 - 130
trans-Nonachlor	<0.048		1.94	1.93		ug/L		100	70 - 130
Trifluralin	<0.096		1.94	2.04		ug/L		105	70 - 130

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	101		70 - 130
Perylene-d12	97		70 - 130
Triphenylphosphate	108		70 - 130

**Lab Sample ID: 380-137428-AD-1-A DU**  
**Matrix: Water**  
**Analysis Batch: 138419**

**Client Sample ID: Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 138013**

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

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-136981-1  
SDG: Weekly

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

**Lab Sample ID: 380-137428-AD-1-A DU**  
**Matrix: Water**  
**Analysis Batch: 138419**

**Client Sample ID: Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 138013**

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

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-136981-1  
SDG: Weekly

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

**Lab Sample ID: 380-137428-AD-1-A DU**  
**Matrix: Water**  
**Analysis Batch: 138419**

**Client Sample ID: Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 138013**

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Hexachlorobenzene	<0.049		<0.049		ug/L		NC	20
Hexachlorocyclopentadiene	<0.049		<0.049		ug/L		NC	20
Indeno[1,2,3-cd]pyrene	<0.049		<0.049		ug/L		NC	20
Isophorone	<0.098		<0.098		ug/L		NC	20
Lindane	<0.0098		<0.0098		ug/L		NC	20
Malathion	<0.098		<0.098		ug/L		NC	20
Methoxychlor	<0.049		<0.049		ug/L		NC	20
Metolachlor	<0.049		<0.049		ug/L		NC	20
Molinate	<0.098		<0.098		ug/L		NC	20
Naphthalene	<0.098		<0.098		ug/L		NC	20
Parathion	<0.098		<0.098		ug/L		NC	20
Pendimethalin (Penoxaline)	<0.098		<0.098		ug/L		NC	20
Phenanthrene	<0.039		<0.039		ug/L		NC	20
Propachlor	<0.049		<0.049		ug/L		NC	20
Pyrene	<0.049		<0.049		ug/L		NC	20
Simazine	<0.049		<0.049		ug/L		NC	20
Terbacil	<0.098		<0.098		ug/L		NC	20
Terbutylazine	<0.098		<0.098		ug/L		NC	20
Thiobencarb	<0.098		<0.098		ug/L		NC	20
Total Permethrin (mixed isomers)	<0.20		<0.20		ug/L		NC	20
trans-Nonachlor	<0.049		<0.049		ug/L		NC	20
Trifluralin	<0.098		<0.098		ug/L		NC	20

Surrogate	DU	DU	Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	101		70 - 130
Perylene-d12	100		70 - 130
Triphenylphosphate	109		70 - 130

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

**Lab Sample ID: MB 570-537230/1-A**  
**Matrix: Water**  
**Analysis Batch: 538945**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 537230**

Tentatively Identified Compound	MB	MB	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
	Est. Result	Qualifier							
Tentatively Identified Compound	None		ug/L			N/A	02/24/25 05:42	02/27/25 14:35	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4,6-Tribromophenol (Surr)	61		33 - 139	02/24/25 05:42	02/27/25 14:35	1
2-Fluorobiphenyl (Surr)	81		33 - 126	02/24/25 05:42	02/27/25 14:35	1
2-Fluorophenol (Surr)	54		12 - 120	02/24/25 05:42	02/27/25 14:35	1
Nitrobenzene-d5 (Surr)	77		36 - 120	02/24/25 05:42	02/27/25 14:35	1
Phenol-d6 (Surr)	38		10 - 120	02/24/25 05:42	02/27/25 14:35	1
p-Terphenyl-d14 (Surr)	77		47 - 131	02/24/25 05:42	02/27/25 14:35	1

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-136981-1  
SDG: Weekly

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

**Lab Sample ID: MB 570-537230/1-A**  
**Matrix: Water**  
**Analysis Batch: 538414**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 537230**

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1-Methylnaphthalene	<0.20		0.20	ug/L		02/24/25 05:42	02/26/25 09:33	1
2-Methylnaphthalene	<0.20		0.20	ug/L		02/24/25 05:42	02/26/25 09:33	1
Acenaphthene	<0.20		0.20	ug/L		02/24/25 05:42	02/26/25 09:33	1
Acenaphthylene	<0.20		0.20	ug/L		02/24/25 05:42	02/26/25 09:33	1
Anthracene	<0.20		0.20	ug/L		02/24/25 05:42	02/26/25 09:33	1
Benzo[a]anthracene	<0.20		0.20	ug/L		02/24/25 05:42	02/26/25 09:33	1
Benzo[a]pyrene	<0.20		0.20	ug/L		02/24/25 05:42	02/26/25 09:33	1
Benzo[b]fluoranthene	<0.20		0.20	ug/L		02/24/25 05:42	02/26/25 09:33	1
Benzo[g,h,i]perylene	<0.20		0.20	ug/L		02/24/25 05:42	02/26/25 09:33	1
Benzo[k]fluoranthene	<0.20		0.20	ug/L		02/24/25 05:42	02/26/25 09:33	1
Chrysene	<0.20		0.20	ug/L		02/24/25 05:42	02/26/25 09:33	1
Dibenz(a,h)anthracene	<0.20		0.20	ug/L		02/24/25 05:42	02/26/25 09:33	1
Fluoranthene	<0.20		0.20	ug/L		02/24/25 05:42	02/26/25 09:33	1
Fluorene	<0.20		0.20	ug/L		02/24/25 05:42	02/26/25 09:33	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20	ug/L		02/24/25 05:42	02/26/25 09:33	1
Naphthalene	<0.20		0.20	ug/L		02/24/25 05:42	02/26/25 09:33	1
Phenanthrene	<0.20		0.20	ug/L		02/24/25 05:42	02/26/25 09:33	1
Pyrene	<0.20		0.20	ug/L		02/24/25 05:42	02/26/25 09:33	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4,6-Tribromophenol (Surr)	70		28 - 127	02/24/25 05:42	02/26/25 09:33	1
2-Fluorobiphenyl (Surr)	68		31 - 120	02/24/25 05:42	02/26/25 09:33	1
2-Fluorophenol (Surr)	46		17 - 120	02/24/25 05:42	02/26/25 09:33	1
Nitrobenzene-d5 (Surr)	70		27 - 120	02/24/25 05:42	02/26/25 09:33	1
Phenol-d6 (Surr)	31		10 - 120	02/24/25 05:42	02/26/25 09:33	1
p-Terphenyl-d14 (Surr)	75		45 - 120	02/24/25 05:42	02/26/25 09:33	1

**Lab Sample ID: LCS 570-537230/2-A**  
**Matrix: Water**  
**Analysis Batch: 538414**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 537230**

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
1-Methylnaphthalene	20.0	13.9		ug/L		70	47 - 120
2-Methylnaphthalene	20.0	15.9		ug/L		79	43 - 120
Acenaphthene	20.0	17.2		ug/L		86	60 - 132
Acenaphthylene	20.0	16.5		ug/L		83	54 - 126
Anthracene	20.0	16.9		ug/L		84	43 - 120
Benzo[a]anthracene	20.0	16.9		ug/L		84	42 - 133
Benzo[a]pyrene	20.0	17.7		ug/L		89	32 - 148
Benzo[b]fluoranthene	20.0	17.1		ug/L		86	42 - 140
Benzo[g,h,i]perylene	20.0	16.2		ug/L		81	1 - 195
Benzo[k]fluoranthene	20.0	17.3		ug/L		86	25 - 146
Chrysene	20.0	16.0		ug/L		80	44 - 140
Dibenz(a,h)anthracene	20.0	17.0		ug/L		85	1 - 200
Fluoranthene	20.0	17.9		ug/L		89	43 - 121
Fluorene	20.0	17.4		ug/L		87	70 - 120
Indeno[1,2,3-cd]pyrene	20.0	17.1		ug/L		86	1 - 151
Naphthalene	20.0	14.5		ug/L		73	36 - 120

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-136981-1  
SDG: Weekly

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

**Lab Sample ID: LCS 570-537230/2-A**  
**Matrix: Water**  
**Analysis Batch: 538414**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 537230**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phenanthrene	20.0	16.7		ug/L		84	65 - 120
Pyrene	20.0	17.0		ug/L		85	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	74		28 - 127
2-Fluorobiphenyl (Surr)	81		31 - 120
2-Fluorophenol (Surr)	63		17 - 120
Nitrobenzene-d5 (Surr)	73		27 - 120
Phenol-d6 (Surr)	43		10 - 120
p-Terphenyl-d14 (Surr)	80		45 - 120

**Lab Sample ID: LCSD 570-537230/3-A**  
**Matrix: Water**  
**Analysis Batch: 538414**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 537230**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	20.0	14.2		ug/L		71	47 - 120	2	20
2-Methylnaphthalene	20.0	16.0		ug/L		80	43 - 120	1	20
Acenaphthene	20.0	16.5		ug/L		83	60 - 132	4	29
Acenaphthylene	20.0	15.9		ug/L		79	54 - 126	4	45
Anthracene	20.0	16.5		ug/L		82	43 - 120	2	40
Benzo[a]anthracene	20.0	16.2		ug/L		81	42 - 133	4	32
Benzo[a]pyrene	20.0	16.7		ug/L		84	32 - 148	6	43
Benzo[b]fluoranthene	20.0	16.4		ug/L		82	42 - 140	5	43
Benzo[g,h,i]perylene	20.0	15.1		ug/L		76	1 - 195	7	61
Benzo[k]fluoranthene	20.0	16.2		ug/L		81	25 - 146	6	38
Chrysene	20.0	15.6		ug/L		78	44 - 140	3	53
Dibenz(a,h)anthracene	20.0	16.0		ug/L		80	1 - 200	6	75
Fluoranthene	20.0	16.1		ug/L		81	43 - 121	10	40
Fluorene	20.0	16.7		ug/L		83	70 - 120	4	23
Indeno[1,2,3-cd]pyrene	20.0	16.2		ug/L		81	1 - 151	5	60
Naphthalene	20.0	14.0		ug/L		70	36 - 120	4	39
Phenanthrene	20.0	16.0		ug/L		80	65 - 120	4	24
Pyrene	20.0	17.0		ug/L		85	70 - 120	0	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	74		28 - 127
2-Fluorobiphenyl (Surr)	79		31 - 120
2-Fluorophenol (Surr)	57		17 - 120
Nitrobenzene-d5 (Surr)	71		27 - 120
Phenol-d6 (Surr)	40		10 - 120
p-Terphenyl-d14 (Surr)	82		45 - 120



# QC Sample Results

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

Job ID: 380-136981-1  
SDG: Weekly

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

**Lab Sample ID: 380-136981-1 MS**

**Client Sample ID: HALAWA WELLS UNITS 1 & 2 (331-206-TP065)**

**Matrix: Drinking Water**

**Prep Type: Total/NA**

**Analysis Batch: 538930**

**Prep Batch: 537230**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
1-Methylnaphthalene	<0.19		19.1	14.9		ug/L		78	36 - 120
2-Methylnaphthalene	<0.19		19.1	16.4		ug/L		86	32 - 124
Acenaphthene	<0.19		19.1	15.2		ug/L		79	47 - 145
Acenaphthylene	<0.19		19.1	14.3		ug/L		75	33 - 145
Anthracene	<0.19		19.1	15.0		ug/L		79	27 - 133
Benzo[a]anthracene	<0.19		19.1	15.4		ug/L		81	33 - 143
Benzo[a]pyrene	<0.19		19.1	15.4		ug/L		80	17 - 163
Benzo[b]fluoranthene	<0.19		19.1	15.3		ug/L		80	24 - 159
Benzo[g,h,i]perylene	<0.19		19.1	14.4		ug/L		75	1 - 219
Benzo[k]fluoranthene	<0.19		19.1	15.3		ug/L		80	11 - 162
Chrysene	<0.19		19.1	14.8		ug/L		77	17 - 168
Dibenz(a,h)anthracene	<0.19		19.1	15.1		ug/L		79	1 - 227
Fluoranthene	<0.19		19.1	15.5		ug/L		81	26 - 137
Fluorene	<0.19		19.1	15.3		ug/L		80	59 - 121
Indeno[1,2,3-cd]pyrene	<0.19		19.1	15.4		ug/L		80	1 - 171
Naphthalene	<0.19		19.1	16.3		ug/L		85	21 - 133
Phenanthrene	<0.19		19.1	15.0		ug/L		79	54 - 120
Pyrene	<0.19		19.1	15.2		ug/L		80	52 - 120

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	72		28 - 127
2-Fluorobiphenyl (Surr)	72		31 - 120
2-Fluorophenol (Surr)	60		17 - 120
Nitrobenzene-d5 (Surr)	81		27 - 120
Phenol-d6 (Surr)	39		10 - 120
p-Terphenyl-d14 (Surr)	75		45 - 120

**Lab Sample ID: 380-136981-1 MSD**

**Client Sample ID: HALAWA WELLS UNITS 1 & 2 (331-206-TP065)**

**Matrix: Drinking Water**

**Prep Type: Total/NA**

**Analysis Batch: 538930**

**Prep Batch: 537230**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
	Result	Qualifier	Added	Result	Qualifier						
1-Methylnaphthalene	<0.19		19.2	13.6		ug/L		71	36 - 120	9	30
2-Methylnaphthalene	<0.19		19.2	15.1		ug/L		79	32 - 124	8	30
Acenaphthene	<0.19		19.2	15.1		ug/L		79	47 - 145	0	48
Acenaphthylene	<0.19		19.2	14.3		ug/L		74	33 - 145	0	74
Anthracene	<0.19		19.2	14.8		ug/L		77	27 - 133	2	66
Benzo[a]anthracene	<0.19		19.2	14.5		ug/L		76	33 - 143	6	53
Benzo[a]pyrene	<0.19		19.2	14.6		ug/L		76	17 - 163	6	72
Benzo[b]fluoranthene	<0.19		19.2	14.9		ug/L		78	24 - 159	3	71
Benzo[g,h,i]perylene	<0.19		19.2	13.8		ug/L		72	1 - 219	4	97
Benzo[k]fluoranthene	<0.19		19.2	14.4		ug/L		75	11 - 162	6	63
Chrysene	<0.19		19.2	14.3		ug/L		74	17 - 168	3	87
Dibenz(a,h)anthracene	<0.19		19.2	14.5		ug/L		75	1 - 227	5	126
Fluoranthene	<0.19		19.2	15.2		ug/L		80	26 - 137	2	66
Fluorene	<0.19		19.2	15.3		ug/L		80	59 - 121	0	38
Indeno[1,2,3-cd]pyrene	<0.19		19.2	14.7		ug/L		77	1 - 171	5	99
Naphthalene	<0.19		19.2	13.9		ug/L		73	21 - 133	15	65

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-136981-1  
SDG: Weekly

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

**Lab Sample ID: 380-136981-1 MSD**  
**Matrix: Drinking Water**  
**Analysis Batch: 538930**

**Client Sample ID: HALAWA WELLS UNITS 1 & 2 (331-206-TP065)**  
**Prep Type: Total/NA**  
**Prep Batch: 537230**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenanthrene	<0.19		19.2	14.7		ug/L		77	54 - 120	2	39
Pyrene	<0.19		19.2	15.3		ug/L		80	52 - 120	0	49
<b>MSD MSD</b>											
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>								
2,4,6-Tribromophenol (Surr)	70		28 - 127								
2-Fluorobiphenyl (Surr)	74		31 - 120								
2-Fluorophenol (Surr)	55		17 - 120								
Nitrobenzene-d5 (Surr)	72		27 - 120								
Phenol-d6 (Surr)	37		10 - 120								
p-Terphenyl-d14 (Surr)	75		45 - 120								

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

**Lab Sample ID: MB 570-539460/13**  
**Matrix: Water**  
**Analysis Batch: 539460**

**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			02/28/25 15:09	1
<b>MB MB</b>								
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>		
4-Bromofluorobenzene (Surr)	76		38 - 134		02/28/25 15:09	1		

**Lab Sample ID: LCS 570-539460/1011**  
**Matrix: Water**  
**Analysis Batch: 539460**

**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	447		ug/L		112	78 - 120
<b>LCS LCS</b>							
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				
4-Bromofluorobenzene (Surr)	94		38 - 134				

**Lab Sample ID: LCSD 570-539460/12**  
**Matrix: Water**  
**Analysis Batch: 539460**

**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	462		ug/L		115	78 - 120	3	10
<b>LCSD LCSD</b>									
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>						
4-Bromofluorobenzene (Surr)	100		38 - 134						

# QC Sample Results

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

Job ID: 380-136981-1  
SDG: Weekly

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

**Lab Sample ID: MRL 570-539460/1006**  
**Matrix: Water**  
**Analysis Batch: 539460**

**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	11.2		ug/L		112	50 - 150
<b>Surrogate</b>		<b>MRL %Recovery</b>	<b>MRL Qualifier</b>				<b>Limits</b>
4-Bromofluorobenzene (Surr)		76					38 - 134

**Lab Sample ID: 380-136981-1 MS**  
**Matrix: Drinking Water**  
**Analysis Batch: 539460**

**Client Sample ID: HALAWA WELLS UNITS 1 & 2 (331-206-TP065)**  
**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	441		ug/L		110	68 - 122
<b>Surrogate</b>		<b>MS %Recovery</b>		<b>MS Qualifier</b>					<b>Limits</b>
4-Bromofluorobenzene (Surr)		99							38 - 134

**Lab Sample ID: 380-136981-1 MSD**  
**Matrix: Drinking Water**  
**Analysis Batch: 539460**

**Client Sample ID: HALAWA WELLS UNITS 1 & 2 (331-206-TP065)**  
**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	468		ug/L		117	68 - 122	6	18
<b>Surrogate</b>		<b>MSD %Recovery</b>		<b>MSD Qualifier</b>					<b>Limits</b>		
4-Bromofluorobenzene (Surr)		98							38 - 134		

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

**Lab Sample ID: MB 570-537151/1-A**  
**Matrix: Water**  
**Analysis Batch: 537607**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 537151**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<25		25	ug/L		02/23/25 13:21	02/24/25 18:40	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		02/23/25 13:21	02/24/25 18:40	1
C8-C18	<25		25	ug/L		02/23/25 13:21	02/24/25 18:40	1
<b>Surrogate</b>		<b>MB %Recovery</b>	<b>MB Qualifier</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
n-Octacosane (Surr)		93				02/23/25 13:21	02/24/25 18:40	1

**Lab Sample ID: LCS 570-537151/2-A**  
**Matrix: Water**  
**Analysis Batch: 537607**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 537151**

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

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-136981-1  
SDG: Weekly

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

**Lab Sample ID: LCS 570-537151/2-A**  
**Matrix: Water**  
**Analysis Batch: 537607**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 537151**

	LCS %Recovery	LCS Qualifier	Limits
<i>Surrogate</i> <i>n-Octacosane (Surr)</i>	87		60 - 130

**Lab Sample ID: LCSD 570-537151/3-A**  
**Matrix: Water**  
**Analysis Batch: 537607**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 537151**

	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Analyte C10-C28	1600	1460		ug/L		91	56 - 127	7	23

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

**Lab Sample ID: MRL 570-537151/4-A**  
**Matrix: Water**  
**Analysis Batch: 537607**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 537151**

	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Analyte C10-C28	0.0200	<0.020		mg/L		83	50 - 150

	MRL %Recovery	MRL Qualifier	Limits
<i>Surrogate</i> <i>n-Octacosane (Surr)</i>	95		60 - 130

**Lab Sample ID: 380-136981-1 MS**  
**Matrix: Drinking Water**  
**Analysis Batch: 537607**

**Client Sample ID: HALAWA WELLS UNITS 1 & 2 (331-206-TP065)**  
**Prep Type: Total/NA**  
**Prep Batch: 537151**

	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Analyte C10-C28	<26		1640	1560		ug/L		95	70 - 130

	MS %Recovery	MS Qualifier	Limits
<i>Surrogate</i> <i>n-Octacosane (Surr)</i>	97		60 - 130

**Lab Sample ID: 380-136981-1 MSD**  
**Matrix: Drinking Water**  
**Analysis Batch: 537607**

**Client Sample ID: HALAWA WELLS UNITS 1 & 2 (331-206-TP065)**  
**Prep Type: Total/NA**  
**Prep Batch: 537151**

	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Analyte C10-C28	<26		1650	1600		ug/L		97	70 - 130	2	20

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

# QC Association Summary

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

Job ID: 380-136981-1  
SDG: Weekly

## GC/MS Semi VOA

### Prep Batch: 137708

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-136981-1	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP0)	Total/NA	Drinking Water	525.2	
MB 380-137708/21-A	Method Blank	Total/NA	Water	525.2	
LCS 380-137708/23-A	Lab Control Sample	Total/NA	Water	525.2	
MRL 380-137708/22-A	Lab Control Sample	Total/NA	Water	525.2	
380-135745-AJ-1-A MS	Matrix Spike	Total/NA	Water	525.2	
380-136977-B-1-A DU	Duplicate	Total/NA	Water	525.2	

### Analysis Batch: 137782

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 380-137708/21-A	Method Blank	Total/NA	Water	525.2	137708
LCS 380-137708/23-A	Lab Control Sample	Total/NA	Water	525.2	137708
MRL 380-137708/22-A	Lab Control Sample	Total/NA	Water	525.2	137708
380-135745-AJ-1-A MS	Matrix Spike	Total/NA	Water	525.2	137708
380-136977-B-1-A DU	Duplicate	Total/NA	Water	525.2	137708

### Analysis Batch: 138007

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-136981-1	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP0)	Total/NA	Drinking Water	525.2	137708

### Prep Batch: 138013

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-136981-2	AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP	Total/NA	Drinking Water	525.2	
MB 380-138013/21-A	Method Blank	Total/NA	Water	525.2	
LCS 380-138013/23-A	Lab Control Sample	Total/NA	Water	525.2	
LCSD 380-138013/24-A	Lab Control Sample Dup	Total/NA	Water	525.2	
MRL 380-138013/22-A	Lab Control Sample	Total/NA	Water	525.2	
380-137440-W-3-A MS	Matrix Spike	Total/NA	Water	525.2	
380-137428-AD-1-A DU	Duplicate	Total/NA	Water	525.2	

### Analysis Batch: 138419

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-136981-2	AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP	Total/NA	Drinking Water	525.2	138013
MB 380-138013/21-A	Method Blank	Total/NA	Water	525.2	138013
LCS 380-138013/23-A	Lab Control Sample	Total/NA	Water	525.2	138013
LCSD 380-138013/24-A	Lab Control Sample Dup	Total/NA	Water	525.2	138013
MRL 380-138013/22-A	Lab Control Sample	Total/NA	Water	525.2	138013
380-137440-W-3-A MS	Matrix Spike	Total/NA	Water	525.2	138013
380-137428-AD-1-A DU	Duplicate	Total/NA	Water	525.2	138013

### Prep Batch: 537230

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-136981-1	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP0)	Total/NA	Drinking Water	625.1	
380-136981-2	AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP	Total/NA	Drinking Water	625.1	
MB 570-537230/1-A	Method Blank	Total/NA	Water	625.1	
LCS 570-537230/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 570-537230/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	
380-136981-1 MS	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Total/NA	Drinking Water	625.1	
380-136981-1 MSD	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Total/NA	Drinking Water	625.1	

# QC Association Summary

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

Job ID: 380-136981-1  
SDG: Weekly

## GC/MS Semi VOA

### Analysis Batch: 538414

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-537230/1-A	Method Blank	Total/NA	Water	625.1 SIM	537230
LCS 570-537230/2-A	Lab Control Sample	Total/NA	Water	625.1 SIM	537230
LCSD 570-537230/3-A	Lab Control Sample Dup	Total/NA	Water	625.1 SIM	537230

### Analysis Batch: 538930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-136981-1	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP065)	Total/NA	Drinking Water	625.1 SIM	537230
380-136981-2	AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP065)	Total/NA	Drinking Water	625.1 SIM	537230
380-136981-1 MS	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Total/NA	Drinking Water	625.1 SIM	537230
380-136981-1 MSD	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Total/NA	Drinking Water	625.1 SIM	537230

### Analysis Batch: 538945

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-136981-1	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP065)	Total/NA	Drinking Water	625.1	537230
380-136981-2	AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP065)	Total/NA	Drinking Water	625.1	537230
MB 570-537230/1-A	Method Blank	Total/NA	Water	625.1	537230

## GC VOA

### Analysis Batch: 539460

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-136981-1	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP065)	Total/NA	Drinking Water	8015B GRO LL	
380-136981-2	AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP065)	Total/NA	Drinking Water	8015B GRO LL	
380-136981-3	TB: HALAWA WELLS UNITS 1&2 (331-206-TP065)	Total/NA	Water	8015B GRO LL	
380-136981-4	TB: AIEA WELLS PUMPS 1&2 (260) (331-203-TP065)	Total/NA	Water	8015B GRO LL	
MB 570-539460/13	Method Blank	Total/NA	Water	8015B GRO LL	
LCS 570-539460/1011	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-539460/12	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	
MRL 570-539460/1006	Lab Control Sample	Total/NA	Water	8015B GRO LL	
380-136981-1 MS	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Total/NA	Drinking Water	8015B GRO LL	
380-136981-1 MSD	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Total/NA	Drinking Water	8015B GRO LL	

## GC Semi VOA

### Prep Batch: 537151

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-136981-1	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP065)	Total/NA	Drinking Water	3510C	
380-136981-2	AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP065)	Total/NA	Drinking Water	3510C	
MB 570-537151/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-537151/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-537151/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-537151/4-A	Lab Control Sample	Total/NA	Water	3510C	
380-136981-1 MS	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Total/NA	Drinking Water	3510C	
380-136981-1 MSD	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Total/NA	Drinking Water	3510C	

### Analysis Batch: 537607

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-136981-1	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP065)	Total/NA	Drinking Water	8015B	537151
380-136981-2	AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP065)	Total/NA	Drinking Water	8015B	537151
MB 570-537151/1-A	Method Blank	Total/NA	Water	8015B	537151
LCS 570-537151/2-A	Lab Control Sample	Total/NA	Water	8015B	537151
LCSD 570-537151/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	537151

Eurofins Eaton Analytical Pomona

# QC Association Summary

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

Job ID: 380-136981-1  
SDG: Weekly

## GC Semi VOA (Continued)

### Analysis Batch: 537607 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MRL 570-537151/4-A	Lab Control Sample	Total/NA	Water	8015B	537151
380-136981-1 MS	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Total/NA	Drinking Water	8015B	537151
380-136981-1 MSD	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Total/NA	Drinking Water	8015B	537151

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# Lab Chronicle

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

Job ID: 380-136981-1  
SDG: Weekly

**Client Sample ID: HALAWA WELLS UNITS 1 & 2 P1  
(331-206-TP065)**

**Lab Sample ID: 380-136981-1**

**Date Collected: 02/18/25 10:10**

**Matrix: Drinking Water**

**Date Received: 02/21/25 09:34**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			137708	OTM3	EA POM	02/25/25 07:06
Total/NA	Analysis	525.2		1	138007	UPAC	EA POM	02/26/25 10:21
Total/NA	Prep	625.1			537230	H1SH	EET CAL 4	02/24/25 05:42
Total/NA	Analysis	625.1		1	538945	CG	EET CAL 4	02/27/25 14:57
Total/NA	Prep	625.1			537230	H1SH	EET CAL 4	02/24/25 05:42
Total/NA	Analysis	625.1 SIM		1	538930	PQS1	EET CAL 4	02/27/25 14:27
Total/NA	Analysis	8015B GRO LL		1	539460	A9VE	EET CAL 4	02/28/25 17:05
Total/NA	Prep	3510C			537151	TVD6	EET CAL 4	02/23/25 13:30
Total/NA	Analysis	8015B		1	537607	H6FE	EET CAL 4	02/24/25 20:26

**Client Sample ID: AIEA WELLS PUMPS 1&2 (260) P2  
(331-203-TP400)**

**Lab Sample ID: 380-136981-2**

**Date Collected: 02/18/25 10:59**

**Matrix: Drinking Water**

**Date Received: 02/21/25 09:34**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			138013	KRD3	EA POM	02/26/25 09:10
Total/NA	Analysis	525.2		1	138419	Q8LA	EA POM	02/27/25 16:04
Total/NA	Prep	625.1			537230	H1SH	EET CAL 4	02/24/25 05:42
Total/NA	Analysis	625.1		1	538945	CG	EET CAL 4	02/27/25 15:20
Total/NA	Prep	625.1			537230	H1SH	EET CAL 4	02/24/25 05:42
Total/NA	Analysis	625.1 SIM		1	538930	PQS1	EET CAL 4	02/27/25 14:49
Total/NA	Analysis	8015B GRO LL		1	539460	A9VE	EET CAL 4	02/28/25 15:47
Total/NA	Prep	3510C			537151	TVD6	EET CAL 4	02/23/25 13:30
Total/NA	Analysis	8015B		1	537607	H6FE	EET CAL 4	02/24/25 20:47

**Client Sample ID: TB: HALAWA WELLS UNITS 1&2  
(331-206-TP065)**

**Lab Sample ID: 380-136981-3**

**Date Collected: 02/18/25 10:10**

**Matrix: Water**

**Date Received: 02/21/25 09:34**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	539460	A9VE	EET CAL 4	02/28/25 17:31

**Client Sample ID: TB: AIEA WELLS PUMPS 1&2 (260)  
(331-203-TP400)**

**Lab Sample ID: 380-136981-4**

**Date Collected: 02/18/25 10:59**

**Matrix: Water**

**Date Received: 02/21/25 09:34**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	539460	A9VE	EET CAL 4	02/28/25 16:39



# Lab Chronicle

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

Job ID: 380-136981-1  
SDG: Weekly

**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

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# Accreditation/Certification Summary

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

Job ID: 380-136981-1  
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 *
<p>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.</p>			
Analysis Method	Prep Method	Matrix	Analyte
525.2	525.2	Drinking Water	1-Methylnaphthalene
525.2	525.2	Drinking Water	2,4'-DDD
525.2	525.2	Drinking Water	2,4'-DDE
525.2	525.2	Drinking Water	2,4'-DDT
525.2	525.2	Drinking Water	2,4-Dinitrotoluene
525.2	525.2	Drinking Water	2,6-Dinitrotoluene
525.2	525.2	Drinking Water	2-Methylnaphthalene
525.2	525.2	Drinking Water	4,4'-DDD
525.2	525.2	Drinking Water	4,4'-DDE
525.2	525.2	Drinking Water	4,4' DDT
525.2	525.2	Drinking Water	Acetochlor
525.2	525.2	Drinking Water	alpha-BHC
525.2	525.2	Drinking Water	alpha-Chlordane
525.2	525.2	Drinking Water	beta-BHC
525.2	525.2	Drinking Water	Chlorobenzilate
525.2	525.2	Drinking Water	Chloroneb
525.2	525.2	Drinking Water	Chlorothalonil (Draconil, Bravo)
525.2	525.2	Drinking Water	Chlorpyrifos
525.2	525.2	Drinking Water	delta-BHC
525.2	525.2	Drinking Water	Diclorvos (DDVP)
525.2	525.2	Drinking Water	Endosulfan I (Alpha)
525.2	525.2	Drinking Water	Endosulfan II (Beta)
525.2	525.2	Drinking Water	Endosulfan sulfate
525.2	525.2	Drinking Water	Endrin aldehyde
525.2	525.2	Drinking Water	EPTC
525.2	525.2	Drinking Water	gamma-Chlordane
525.2	525.2	Drinking Water	Isophorone
525.2	525.2	Drinking Water	Malathion
525.2	525.2	Drinking Water	Parathion
525.2	525.2	Drinking Water	Pendimethalin (Penoxaline)
525.2	525.2	Drinking Water	Terbacil
525.2	525.2	Drinking Water	Terbutylazine
525.2	525.2	Drinking Water	Total Permethrin (mixed isomers)
525.2	525.2	Drinking Water	trans-Nonachlor

## Laboratory: Eurofins Calscience

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

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	7296.01	11-30-26
Arizona	State	AZ0830	11-16-25
Arkansas DEQ	State	88-01672	07-02-25
California	Los Angeles County Sanitation Districts	9257304	07-31-26
California	SCAQMD LAP	17LA0919	11-30-25
California	State	3082	07-31-25

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Eaton Analytical Pomona

# Accreditation/Certification Summary

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

Job ID: 380-136981-1  
SDG: Weekly

## Laboratory: Eurofins Calscience (Continued)

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

Authority	Program	Identification Number	Expiration Date
Kansas	NELAP	E-10420	07-31-25
Nevada	State	CA00111	07-31-25
Oregon	NELAP	4175	02-02-26
USDA	US Federal Programs	525-23-159-97150	06-08-26
Utah	NELAP	CA001112025-8	02-28-26
Washington	State	C916	10-11-25

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# Method Summary

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

Job ID: 380-136981-1  
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: 380-136981-1  
SDG: Weekly

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	PWSID Number
380-136981-1	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP065)	Drinking Water	02/18/25 10:10	02/21/25 09:34	HI0000331
380-136981-2	AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP400)	Drinking Water	02/18/25 10:59	02/21/25 09:34	HI0000331
380-136981-3	TB: HALAWA WELLS UNITS 1&2 (331-206-TP065)	Water	02/18/25 10:10	02/21/25 09:34	
380-136981-4	TB: AIEA WELLS PUMPS 1&2 (260) (331-203-TP400)	Water	02/18/25 10:59	02/21/25 09:34	

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**Chain of Custody Record**

<b>Client Information</b>		Lab P#: Arada Rachelle		Carrier Tracking No(s):		COC No: 380-28005-2757 1	
Sampler: bailey		E-Mail: Rachelle.Arada@et.eurofins.com		State of Origin:		Page: Page 1 of 1	
Phone: +1 808 748 5840		PWSID:		Job #:		Preservation Codes: R - NaThioSO4 RA - NaThio/HCl Q - NaZSO3 QA - NaZSO3/HCl Y - Trizma I - NH4 Acetate	
City & County of Honolulu		Due Date Requested		<b>Analysis Requested</b>			
Address: 630 South Beretania Street Chemistry Lab		TAT Requested (days):		Total Number of Containers			
City: Honolulu		Compliance Project: Δ Yes Δ No		537 1_DW_PREC - 637 1 Full List			
State Zip: HI, 96843		PO #: C20525101 exp 05312023		537 2_PREC - (MOD) 525plus Plus TICs			
Phone: 808-748-5840 (Tel)		WO #:		8015B_DRO_LL_CS - HNL Ranges C10-C24/C24-C38/C8-C18			
Email: kiwamoto@hbws.org		Project #: 38001111		8015B_GRO_LL - (MOD) GRO			
Project Name: RED-HILL/HBWS Sites Event Desc: RUSH Weekly Red Hill		SSOW#:		625 1_625 1_SIM			
Site: Hawaii		Sample Date		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)	
Sample Identification		Sample Time		Sample Type (C=Comp, G=grab)		Ration (RA) Q (QA) Y (I)	
Halawa Wells Units 1 & 2 P1		18-Feb-2025		G		X 4 5 4 2	
Halawa Wells Units 1 & 2 (Matrix Spike)						X X X	
Halawa Wells Units 1 & 2 (Matrix Spike Duplicate)						X X X	
TB: Halawa Wells Units 1 & 2		18-Feb-2025				2	
Aiea Wells Pumps 1&2 (260) PZ		18-Feb-2025		G		2 3 2 2	
Aiea Wells Pumps 1&2 (260) (Matrix Spike)							
Aiea Wells Pumps 1&2 (Matrix Spike Duplicate)		18-Feb-2025		G		2	
TB: Aiea Wells Pumps 1&2 (260)							
Possible Hazard Identification		Date		Time		Special Instructions/Note:	
<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		18-Feb-2025		10:00		Special Instructions/Note: 380-136981 COC	
Deliverable Requested I, II, III, IV Other (specify)		Date		Time		Special Instructions/Note:	
Empty Kit Relinquished by:		Date		Time		Special Instructions/Note:	
Relinquished by:		Date		Time		Special Instructions/Note:	
Custody Seals Intact: Δ Yes Δ No		Date		Time		Special Instructions/Note:	



**Eurofins Eaton Analytical Pomona**

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

**Chain of Custody Record**



eurofins | Environ

Loc: 380  
**136981**

<b>Client Information (Sub Contract Lab)</b>		Sampler: N/A	Lab PM: Arada, Rachelle	Carrier Tracking No(s): N/A	COC No: 380-193209.1
Client Contact: Shipping/Receiving		Phone: N/A	E-Mail: Rachelle.Arada@et.eurofinsus.com	State of Origin: Hawaii	Page: Page 1 of 1
Company: Eurofins Environment Testing Southwest			Accreditations Required (See note): State - Hawaii		Job #: 380-136981-1
Address: 2841 Dow Avenue, Suite 100, Tustin, CA, 92780		Due Date Requested: 3/6/2025	Analysis Requested		Preservation Codes:
City: Tustin		TAT Requested (days): N/A			
State, Zip: CA, 92780		PO #: N/A	<p>380-136981 Chain of Custody</p>		Other: N/A
Phone: 714-895-5494(Tel)		WO #: N/A			
Email: N/A		Project #: 38001111	Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 8015B_DRO_LL_CS1510C_LL_HNL_Ranges: C10-C24/C24-C36/C8-C18 625.1_S1M626_Prep (MOD) Extended PAH List 625.1625_Prep (MOD) Tentatively Identified Compounds (Hold) 8015B_GRO_LL5030C (MOD) GRO		Total Number of Containers
Project Name: RED-HILL		SSOW#: N/A			
Site: Honolulu BWS Sites					
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Solid, Other)	Special Instructions/Note:
Preservation Code:					
HALAWA WELLS UNITS 1 & 2 (331-206-TP065) (380-136981-1)	2/18/25	10:10 Hawaiian	G	Water	MRLs are needed. Confirm any hits >RL.
HALAWA WELLS UNITS 1 & 2 (331-206-TP065) (380-136981-1M)	2/18/25	10:10 Hawaiian	G	Water	MRLs are needed. Confirm any hits >RL.
HALAWA WELLS UNITS 1 & 2 (331-206-TP065) (380-136981-1M)	2/18/25	10:10 Hawaiian	G	Water	MRLs are needed. Confirm any hits >RL.
AIEA WELLS PUMPS 1&2 (260) (331-203-TP400) (380-136981-2)	2/18/25	10:59 Hawaiian	G	Water	MRLs are needed. Confirm any hits >RL.
TB: HALAWA WELLS UNITS 1&2 (331-206-TP065) (380-136981)	2/18/25	10:10 Hawaiian	G	Water	MRLs are needed.
TB: AIEA WELLS PUMPS 1&2 (260) (331-203-TP400) (380-136981)	2/18/25	10:59 Hawaiian	G	Water	MRLs are needed.

Note: Since laboratory accreditations are subject to change, Eurofins Eaton Analytical, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Eaton Analytical, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Eaton Analytical, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Eaton Analytical, LLC.

<b>Possible Hazard Identification</b>		<b>Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)</b>	
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)		Special Instructions/QC Requirements:	
Primary Deliverable Rank: 2			
Empty Kit Relinquished by:		Date:	
Relinquished by: <i>[Signature]</i>		Date/Time: 2/22/25 1035	
Relinquished by: <i>[Signature]</i>		Date/Time: 2/22/25 1035	
Relinquished by: <i>[Signature]</i>		Date/Time: 2-22-25 11:20	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:	
		Cooler Temperature(s) °C and Other Remarks: 2/2.3 salt	

## Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-136981-1

SDG Number: Weekly

**Login Number: 136981**

**List Number: 1**

**Creator: Ngo, Theodore**

**List Source: Eurofins Eaton Analytical Pomona**

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





# Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-136981-1

SDG Number: Weekly

**Login Number: 136981**

**List Number: 2**

**Creator: Nguyen, Jenny**

**List Source: Eurofins Calscience**

**List Creation: 02/22/25 01:10 PM**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> 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	2.3
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?	False	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	

