

# ANALYTICAL REPORT

## PREPARED FOR

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City & County of Honolulu  
630 South Beretania Street  
Public Service Bldg. Room 310  
Honolulu, Hawaii 96843

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## JOB DESCRIPTION

RED-HILL  
525.2  
RUSH Weekly Red Hill

## JOB NUMBER

380-79348-1

# 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: 380-79348-1  
SDG: 525.2

## 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.

### 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.
α	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: 380-79348-1

**Job ID: 380-79348-1**

**Eurofins Eaton Analytical Pomona**

## Job Narrative 380-79348-1

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 are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample 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 sample was received on 1/19/2024 11:00 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.1°C

### GC/MS Semi VOA

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: 380-79348-1  
SDG: 525.2

**Client Sample ID: MOANALUA WELLS**  
**PWSID Number: HI0000331**

**Lab Sample ID: 380-79348-1**

No Detections.

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

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: 380-79348-1  
SDG: 525.2

**Client Sample ID: MOANALUA WELLS**

**Lab Sample ID: 380-79348-1**

Date Collected: 01/16/24 10:30

Matrix: Drinking Water

Date Received: 01/19/24 11:00

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		01/21/24 14:30	01/22/24 15:35	1
2,4'-DDD	<0.098		0.098	ug/L		01/21/24 14:30	01/22/24 15:35	1
2,4'-DDE	<0.098		0.098	ug/L		01/21/24 14:30	01/22/24 15:35	1
2,4'-DDT	<0.098		0.098	ug/L		01/21/24 14:30	01/22/24 15:35	1
2,4-Dinitrotoluene	<0.098		0.098	ug/L		01/21/24 14:30	01/22/24 15:35	1
2,6-Dinitrotoluene	<0.098		0.098	ug/L		01/21/24 14:30	01/22/24 15:35	1
2-Methylnaphthalene	<0.098		0.098	ug/L		01/21/24 14:30	01/22/24 15:35	1
4,4'-DDD	<0.098		0.098	ug/L		01/21/24 14:30	01/22/24 15:35	1
4,4'-DDE	<0.098		0.098	ug/L		01/21/24 14:30	01/22/24 15:35	1
4,4'-DDT	<0.098		0.098	ug/L		01/21/24 14:30	01/22/24 15:35	1
Acenaphthene	<0.098		0.098	ug/L		01/21/24 14:30	01/22/24 15:35	1
Acenaphthylene	<0.098		0.098	ug/L		01/21/24 14:30	01/22/24 15:35	1
Acetochlor	<0.098		0.098	ug/L		01/21/24 14:30	01/22/24 15:35	1
Alachlor	<0.049		0.049	ug/L		01/21/24 14:30	01/22/24 15:35	1
alpha-BHC	<0.098		0.098	ug/L		01/21/24 14:30	01/22/24 15:35	1
alpha-Chlordane	<0.049		0.049	ug/L		01/21/24 14:30	01/22/24 15:35	1
Anthracene	<0.020		0.020	ug/L		01/21/24 14:30	01/22/24 15:35	1
Atrazine	<0.049		0.049	ug/L		01/21/24 14:30	01/22/24 15:35	1
Benz(a)anthracene	<0.049		0.049	ug/L		01/21/24 14:30	01/22/24 15:35	1
Benzo[a]pyrene	<0.020		0.020	ug/L		01/21/24 14:30	01/22/24 15:35	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		01/21/24 14:30	01/22/24 15:35	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		01/21/24 14:30	01/22/24 15:35	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		01/21/24 14:30	01/22/24 15:35	1
beta-BHC	<0.098		0.098	ug/L		01/21/24 14:30	01/22/24 15:35	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		01/21/24 14:30	01/22/24 15:35	1
Bromacil	<0.098		0.098	ug/L		01/21/24 14:30	01/22/24 15:35	1
Butachlor	<0.049		0.049	ug/L		01/21/24 14:30	01/22/24 15:35	1
Butylbenzylphthalate	<0.49		0.49	ug/L		01/21/24 14:30	01/22/24 15:35	1
Chlorobenzilate	<0.098		0.098	ug/L		01/21/24 14:30	01/22/24 15:35	1
Chloroneb	<0.098		0.098	ug/L		01/21/24 14:30	01/22/24 15:35	1
Chlorothalonil (Draconil, Bravo)	<0.098	^3+	0.098	ug/L		01/21/24 14:30	01/22/24 15:35	1
Chlorpyrifos	<0.049		0.049	ug/L		01/21/24 14:30	01/22/24 15:35	1
Chrysene	<0.020		0.020	ug/L		01/21/24 14:30	01/22/24 15:35	1
delta-BHC	<0.098		0.098	ug/L		01/21/24 14:30	01/22/24 15:35	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		01/21/24 14:30	01/22/24 15:35	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		01/21/24 14:30	01/22/24 15:35	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		01/21/24 14:30	01/22/24 15:35	1
Dieldrin	<0.20		0.20	ug/L		01/21/24 14:30	01/22/24 15:35	1
Diethylphthalate	<0.49		0.49	ug/L		01/21/24 14:30	01/22/24 15:35	1
Dimethylphthalate	<0.49		0.49	ug/L		01/21/24 14:30	01/22/24 15:35	1
Di-n-butyl phthalate	<0.98		0.98	ug/L		01/21/24 14:30	01/22/24 15:35	1
Di-n-octyl phthalate	<0.098		0.098	ug/L		01/21/24 14:30	01/22/24 15:35	1
Endosulfan I (Alpha)	<0.098		0.098	ug/L		01/21/24 14:30	01/22/24 15:35	1
Endosulfan II (Beta)	<0.098		0.098	ug/L		01/21/24 14:30	01/22/24 15:35	1
Endosulfan sulfate	<0.098		0.098	ug/L		01/21/24 14:30	01/22/24 15:35	1
Endrin	<0.098		0.098	ug/L		01/21/24 14:30	01/22/24 15:35	1
Endrin aldehyde	<0.098		0.098	ug/L		01/21/24 14:30	01/22/24 15:35	1
EPTC	<0.098		0.098	ug/L		01/21/24 14:30	01/22/24 15:35	1
Fluoranthene	<0.098		0.098	ug/L		01/21/24 14:30	01/22/24 15:35	1

Eurofins Eaton Analytical Pomona

# Client Sample Results

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

Job ID: 380-79348-1  
SDG: 525.2

**Client Sample ID: MOANALUA WELLS**

**Lab Sample ID: 380-79348-1**

Date Collected: 01/16/24 10:30

Matrix: Drinking Water

Date Received: 01/19/24 11:00

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	<0.049		0.049	ug/L		01/21/24 14:30	01/22/24 15:35	1
gamma-Chlordane	<0.049		0.049	ug/L		01/21/24 14:30	01/22/24 15:35	1
Heptachlor	<0.039		0.039	ug/L		01/21/24 14:30	01/22/24 15:35	1
Heptachlor epoxide (isomer B)	<0.049		0.049	ug/L		01/21/24 14:30	01/22/24 15:35	1
Hexachlorobenzene	<0.049		0.049	ug/L		01/21/24 14:30	01/22/24 15:35	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		01/21/24 14:30	01/22/24 15:35	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		01/21/24 14:30	01/22/24 15:35	1
Isophorone	<0.49		0.49	ug/L		01/21/24 14:30	01/22/24 15:35	1
Lindane	<0.039		0.039	ug/L		01/21/24 14:30	01/22/24 15:35	1
Malathion	<0.098		0.098	ug/L		01/21/24 14:30	01/22/24 15:35	1
Methoxychlor	<0.098		0.098	ug/L		01/21/24 14:30	01/22/24 15:35	1
Metolachlor	<0.049		0.049	ug/L		01/21/24 14:30	01/22/24 15:35	1
Molinate	<0.098		0.098	ug/L		01/21/24 14:30	01/22/24 15:35	1
Naphthalene	<0.29		0.29	ug/L		01/21/24 14:30	01/22/24 15:35	1
Parathion	<0.098		0.098	ug/L		01/21/24 14:30	01/22/24 15:35	1
Pendimethalin (Penoxaline)	<0.098		0.098	ug/L		01/21/24 14:30	01/22/24 15:35	1
Phenanthrene	<0.039		0.039	ug/L		01/21/24 14:30	01/22/24 15:35	1
Propachlor	<0.049		0.049	ug/L		01/21/24 14:30	01/22/24 15:35	1
Pyrene	<0.049		0.049	ug/L		01/21/24 14:30	01/22/24 15:35	1
Simazine	<0.049		0.049	ug/L		01/21/24 14:30	01/22/24 15:35	1
Terbacil	<0.098		0.098	ug/L		01/21/24 14:30	01/22/24 15:35	1
Terbutylazine	<0.098		0.098	ug/L		01/21/24 14:30	01/22/24 15:35	1
Thiobencarb	<0.20		0.20	ug/L		01/21/24 14:30	01/22/24 15:35	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		01/21/24 14:30	01/22/24 15:35	1
trans-Nonachlor	<0.049		0.049	ug/L		01/21/24 14:30	01/22/24 15:35	1
Trifluralin	<0.098		0.098	ug/L		01/21/24 14:30	01/22/24 15:35	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	01/21/24 14:30	01/22/24 15:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	93		70 - 130	01/21/24 14:30	01/22/24 15:35	1
Perylene-d12	102		70 - 130	01/21/24 14:30	01/22/24 15:35	1
Triphenylphosphate	101		70 - 130	01/21/24 14:30	01/22/24 15:35	1



# Action Limit Summary

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

Job ID: 380-79348-1  
SDG: 525.2

**Client Sample ID: MOANALUA WELLS**

**Lab Sample ID: 380-79348-1**

**PWSID Number: HI0000331**

## Compliance Check

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

Analyte	Result	Qualifier	Unit	EPAMCL	RL	Method	Prep Type
				Limit			
Alachlor	<0.049		ug/L	2	0.049	525.2	Total/NA
Atrazine	<0.049		ug/L	3	0.049	525.2	Total/NA
Benzo[a]pyrene	<0.020		ug/L	0.2	0.020	525.2	Total/NA
Bis(2-ethylhexyl) phthalate	<0.59		ug/L	6	0.59	525.2	Total/NA
Di(2-ethylhexyl)adipate	<0.59		ug/L	400	0.59	525.2	Total/NA
Endrin	<0.098		ug/L	2	0.098	525.2	Total/NA
Heptachlor	<0.039		ug/L	0.4	0.039	525.2	Total/NA
Heptachlor epoxide (isomer B)	<0.049		ug/L	0.2	0.049	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	<0.039		ug/L	0.2	0.039	525.2	Total/NA
Methoxychlor	<0.098		ug/L	40	0.098	525.2	Total/NA
Simazine	<0.049		ug/L	4	0.049	525.2	Total/NA

# Surrogate Summary

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

Job ID: 380-79348-1  
SDG: 525.2

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

Matrix: Drinking Water

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	2NMX (70-130)	PRY (70-130)	TPP (70-130)
380-79348-1	MOANALUA WELLS	93	102	101

#### Surrogate Legend

2NMX = 2-Nitro-m-xylene

PRY = Perylene-d12

TPP = Triphenylphosphate

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

Matrix: Water

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	2NMX (70-130)	PRY (70-130)	TPP (70-130)
380-79297-W-1-A MS	Matrix Spike	93	102	116
380-79337-J-1-A DU	Duplicate	97	100	105
LCS 380-72487/23-A	Lab Control Sample	94	104	109
MB 380-72487/21-A	Method Blank	100	95	104
MRL 380-72487/22-A	Lab Control Sample	96	102	105

#### Surrogate Legend

2NMX = 2-Nitro-m-xylene

PRY = Perylene-d12

TPP = Triphenylphosphate

# QC Sample Results

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

Job ID: 380-79348-1  
 SDG: 525.2

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

**Lab Sample ID: MB 380-72487/21-A**  
**Matrix: Water**  
**Analysis Batch: 72549**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 72487**

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1-Methylnaphthalene	<0.099		0.099	ug/L		01/21/24 14:30	01/22/24 13:36	1
2,4'-DDD	<0.099		0.099	ug/L		01/21/24 14:30	01/22/24 13:36	1
2,4'-DDE	<0.099		0.099	ug/L		01/21/24 14:30	01/22/24 13:36	1
2,4'-DDT	<0.099		0.099	ug/L		01/21/24 14:30	01/22/24 13:36	1
2,4-Dinitrotoluene	<0.099		0.099	ug/L		01/21/24 14:30	01/22/24 13:36	1
2,6-Dinitrotoluene	<0.099		0.099	ug/L		01/21/24 14:30	01/22/24 13:36	1
2-Methylnaphthalene	<0.099		0.099	ug/L		01/21/24 14:30	01/22/24 13:36	1
4,4'-DDD	<0.099		0.099	ug/L		01/21/24 14:30	01/22/24 13:36	1
4,4'-DDE	<0.099		0.099	ug/L		01/21/24 14:30	01/22/24 13:36	1
4,4'-DDT	<0.099		0.099	ug/L		01/21/24 14:30	01/22/24 13:36	1
Acenaphthene	<0.099		0.099	ug/L		01/21/24 14:30	01/22/24 13:36	1
Acenaphthylene	<0.099		0.099	ug/L		01/21/24 14:30	01/22/24 13:36	1
Acetochlor	<0.099		0.099	ug/L		01/21/24 14:30	01/22/24 13:36	1
Alachlor	<0.049		0.049	ug/L		01/21/24 14:30	01/22/24 13:36	1
alpha-BHC	<0.099		0.099	ug/L		01/21/24 14:30	01/22/24 13:36	1
alpha-Chlordane	<0.049		0.049	ug/L		01/21/24 14:30	01/22/24 13:36	1
Anthracene	<0.020		0.020	ug/L		01/21/24 14:30	01/22/24 13:36	1
Atrazine	<0.049		0.049	ug/L		01/21/24 14:30	01/22/24 13:36	1
Benz(a)anthracene	<0.049		0.049	ug/L		01/21/24 14:30	01/22/24 13:36	1
Benzo[a]pyrene	<0.020		0.020	ug/L		01/21/24 14:30	01/22/24 13:36	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		01/21/24 14:30	01/22/24 13:36	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		01/21/24 14:30	01/22/24 13:36	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		01/21/24 14:30	01/22/24 13:36	1
beta-BHC	<0.099		0.099	ug/L		01/21/24 14:30	01/22/24 13:36	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		01/21/24 14:30	01/22/24 13:36	1
Bromacil	<0.099		0.099	ug/L		01/21/24 14:30	01/22/24 13:36	1
Butachlor	<0.049		0.049	ug/L		01/21/24 14:30	01/22/24 13:36	1
Butylbenzylphthalate	<0.49		0.49	ug/L		01/21/24 14:30	01/22/24 13:36	1
Chlorobenzilate	<0.099		0.099	ug/L		01/21/24 14:30	01/22/24 13:36	1
Chloroneb	<0.099		0.099	ug/L		01/21/24 14:30	01/22/24 13:36	1
Chlorothalonil (Draconil, Bravo)	<0.099		0.099	ug/L		01/21/24 14:30	01/22/24 13:36	1
Chlorpyrifos	<0.049		0.049	ug/L		01/21/24 14:30	01/22/24 13:36	1
Chrysene	<0.020		0.020	ug/L		01/21/24 14:30	01/22/24 13:36	1
delta-BHC	<0.099		0.099	ug/L		01/21/24 14:30	01/22/24 13:36	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		01/21/24 14:30	01/22/24 13:36	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		01/21/24 14:30	01/22/24 13:36	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		01/21/24 14:30	01/22/24 13:36	1
Dieldrin	<0.20		0.20	ug/L		01/21/24 14:30	01/22/24 13:36	1
Diethylphthalate	<0.49		0.49	ug/L		01/21/24 14:30	01/22/24 13:36	1
Dimethylphthalate	<0.49		0.49	ug/L		01/21/24 14:30	01/22/24 13:36	1
Di-n-butyl phthalate	<0.99		0.99	ug/L		01/21/24 14:30	01/22/24 13:36	1
Di-n-octyl phthalate	<0.099		0.099	ug/L		01/21/24 14:30	01/22/24 13:36	1
Endosulfan I (Alpha)	<0.099		0.099	ug/L		01/21/24 14:30	01/22/24 13:36	1
Endosulfan II (Beta)	<0.099		0.099	ug/L		01/21/24 14:30	01/22/24 13:36	1
Endosulfan sulfate	<0.099		0.099	ug/L		01/21/24 14:30	01/22/24 13:36	1
Endrin	<0.099		0.099	ug/L		01/21/24 14:30	01/22/24 13:36	1
Endrin aldehyde	<0.099		0.099	ug/L		01/21/24 14:30	01/22/24 13:36	1
EPTC	<0.099		0.099	ug/L		01/21/24 14:30	01/22/24 13:36	1

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-79348-1  
SDG: 525.2

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

**Lab Sample ID: MB 380-72487/21-A**  
**Matrix: Water**  
**Analysis Batch: 72549**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 72487**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.099		0.099	ug/L		01/21/24 14:30	01/22/24 13:36	1
Fluorene	<0.049		0.049	ug/L		01/21/24 14:30	01/22/24 13:36	1
gamma-Chlordane	<0.049		0.049	ug/L		01/21/24 14:30	01/22/24 13:36	1
Heptachlor	<0.039		0.039	ug/L		01/21/24 14:30	01/22/24 13:36	1
Heptachlor epoxide (isomer B)	<0.049		0.049	ug/L		01/21/24 14:30	01/22/24 13:36	1
Hexachlorobenzene	<0.049		0.049	ug/L		01/21/24 14:30	01/22/24 13:36	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		01/21/24 14:30	01/22/24 13:36	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		01/21/24 14:30	01/22/24 13:36	1
Isophorone	<0.49		0.49	ug/L		01/21/24 14:30	01/22/24 13:36	1
Lindane	<0.039		0.039	ug/L		01/21/24 14:30	01/22/24 13:36	1
Malathion	<0.099		0.099	ug/L		01/21/24 14:30	01/22/24 13:36	1
Methoxychlor	<0.099		0.099	ug/L		01/21/24 14:30	01/22/24 13:36	1
Metolachlor	<0.049		0.049	ug/L		01/21/24 14:30	01/22/24 13:36	1
Molinate	<0.099		0.099	ug/L		01/21/24 14:30	01/22/24 13:36	1
Naphthalene	<0.30		0.30	ug/L		01/21/24 14:30	01/22/24 13:36	1
Parathion	<0.099		0.099	ug/L		01/21/24 14:30	01/22/24 13:36	1
Pendimethalin (Penoxaline)	<0.099		0.099	ug/L		01/21/24 14:30	01/22/24 13:36	1
Phenanthrene	<0.039		0.039	ug/L		01/21/24 14:30	01/22/24 13:36	1
Propachlor	<0.049		0.049	ug/L		01/21/24 14:30	01/22/24 13:36	1
Pyrene	<0.049		0.049	ug/L		01/21/24 14:30	01/22/24 13:36	1
Simazine	<0.049		0.049	ug/L		01/21/24 14:30	01/22/24 13:36	1
Terbacil	<0.099		0.099	ug/L		01/21/24 14:30	01/22/24 13:36	1
Terbutylazine	<0.099		0.099	ug/L		01/21/24 14:30	01/22/24 13:36	1
Thiobencarb	<0.20		0.20	ug/L		01/21/24 14:30	01/22/24 13:36	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		01/21/24 14:30	01/22/24 13:36	1
trans-Nonachlor	<0.049		0.049	ug/L		01/21/24 14:30	01/22/24 13:36	1
Trifluralin	<0.099		0.099	ug/L		01/21/24 14:30	01/22/24 13:36	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Decane	2.56	T J N	ug/L		2.35	124-18-5	01/21/24 14:30	01/22/24 13:36	1
Cyclopentasiloxane, decamethyl-	0.795	T J N	ug/L		2.64	541-02-6	01/21/24 14:30	01/22/24 13:36	1
n-Hexadecanoic acid	0.611	T J N	ug/L		5.78	57-10-3	01/21/24 14:30	01/22/24 13:36	1
9-Octadecenamamide, (Z)-	0.738	T J N	ug/L		7.45	301-02-0	01/21/24 14:30	01/22/24 13:36	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	100		70 - 130	01/21/24 14:30	01/22/24 13:36	1
Perylene-d12	95		70 - 130	01/21/24 14:30	01/22/24 13:36	1
Triphenylphosphate	104		70 - 130	01/21/24 14:30	01/22/24 13:36	1

**Lab Sample ID: LCS 380-72487/23-A**  
**Matrix: Water**  
**Analysis Batch: 72549**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 72487**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	1.97	1.95		ug/L		99	70 - 130
2,4'-DDD	1.97	2.02		ug/L		102	70 - 130
2,4'-DDE	1.97	2.07		ug/L		105	70 - 130
2,4'-DDT	1.97	2.07		ug/L		105	70 - 130

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-79348-1  
SDG: 525.2

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

**Lab Sample ID: LCS 380-72487/23-A**  
**Matrix: Water**  
**Analysis Batch: 72549**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 72487**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4-Dinitrotoluene	1.97	2.06		ug/L		105	70 - 130
2,6-Dinitrotoluene	1.97	1.96		ug/L		100	70 - 130
2-Methylnaphthalene	1.97	2.03		ug/L		103	70 - 130
4,4'-DDD	1.97	2.03		ug/L		103	70 - 130
4,4'-DDE	1.97	1.92		ug/L		97	70 - 130
4,4'-DDT	1.97	1.95		ug/L		99	70 - 130
Acenaphthene	1.97	1.80		ug/L		91	70 - 130
Acenaphthylene	1.97	1.77		ug/L		90	70 - 130
Acetochlor	1.97	1.74		ug/L		88	70 - 130
Alachlor	1.97	2.11		ug/L		107	70 - 130
alpha-BHC	1.97	1.87		ug/L		95	70 - 130
alpha-Chlordane	1.97	2.23		ug/L		113	70 - 130
Anthracene	1.97	2.00		ug/L		102	70 - 130
Atrazine	1.97	2.24		ug/L		114	70 - 130
Benz(a)anthracene	1.97	2.02		ug/L		103	70 - 130
Benzo[a]pyrene	1.97	2.05		ug/L		104	70 - 130
Benzo[b]fluoranthene	1.97	2.05		ug/L		104	70 - 130
Benzo[g,h,i]perylene	1.97	1.99		ug/L		101	70 - 130
Benzo[k]fluoranthene	1.97	2.16		ug/L		110	70 - 130
beta-BHC	1.97	1.93		ug/L		98	70 - 130
Bis(2-ethylhexyl) phthalate	1.97	1.63		ug/L		83	70 - 130
Bromacil	1.97	2.23		ug/L		113	70 - 130
Butachlor	1.97	2.19		ug/L		111	70 - 130
Butylbenzylphthalate	1.97	2.14		ug/L		109	70 - 130
Chlorobenzilate	1.97	2.15		ug/L		109	70 - 130
Chloroneb	1.97	2.00		ug/L		102	70 - 130
Chlorothalonil (Draconil, Bravo)	1.97	2.13		ug/L		108	70 - 130
Chlorpyrifos	1.97	2.13		ug/L		108	70 - 130
Chrysene	1.97	1.92		ug/L		97	70 - 130
delta-BHC	1.97	1.79		ug/L		91	70 - 130
Di(2-ethylhexyl)adipate	1.97	2.00		ug/L		101	70 - 130
Dibenz(a,h)anthracene	1.97	2.03		ug/L		103	70 - 130
Diclorvos (DDVP)	1.97	1.72		ug/L		87	70 - 130
Dieldrin	1.97	2.03		ug/L		103	70 - 130
Diethylphthalate	1.97	1.98		ug/L		101	70 - 130
Dimethylphthalate	1.97	1.95		ug/L		99	70 - 130
Di-n-butyl phthalate	3.94	4.37		ug/L		111	70 - 130
Di-n-octyl phthalate	1.97	1.40		ug/L		71	70 - 130
Endosulfan I (Alpha)	1.97	1.93		ug/L		98	70 - 130
Endosulfan II (Beta)	1.97	2.02		ug/L		103	70 - 130
Endosulfan sulfate	1.97	2.32		ug/L		118	70 - 130
Endrin	1.97	2.13		ug/L		108	70 - 130
Endrin aldehyde	1.97	1.98		ug/L		101	70 - 130
EPTC	1.97	2.15		ug/L		109	70 - 130
Fluoranthene	1.97	2.09		ug/L		106	70 - 130
Fluorene	1.97	2.02		ug/L		103	70 - 130
gamma-Chlordane	1.97	2.27		ug/L		115	70 - 130
Heptachlor	1.97	1.79		ug/L		91	70 - 130
Heptachlor epoxide (isomer B)	1.97	2.18		ug/L		111	70 - 130

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# QC Sample Results

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

Job ID: 380-79348-1  
SDG: 525.2

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

**Lab Sample ID: LCS 380-72487/23-A**  
**Matrix: Water**  
**Analysis Batch: 72549**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 72487**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Hexachlorobenzene	1.97	2.14		ug/L		109	70 - 130
Hexachlorocyclopentadiene	1.97	2.17		ug/L		110	70 - 130
Indeno[1,2,3-cd]pyrene	1.97	2.04		ug/L		104	70 - 130
Isophorone	1.97	1.67		ug/L		85	70 - 130
Lindane	1.97	1.98		ug/L		100	70 - 130
Malathion	1.97	2.26		ug/L		115	70 - 130
Methoxychlor	1.97	1.84		ug/L		93	70 - 130
Metolachlor	1.97	2.14		ug/L		109	70 - 130
Molinate	1.97	2.02		ug/L		102	70 - 130
Naphthalene	1.97	1.85		ug/L		94	70 - 130
Parathion	1.97	1.94		ug/L		99	70 - 130
Pendimethalin (Penoxaline)	1.97	2.10		ug/L		107	70 - 130
Phenanthrene	1.97	1.92		ug/L		98	70 - 130
Propachlor	1.97	2.01		ug/L		102	70 - 130
Pyrene	1.97	2.09		ug/L		106	70 - 130
Simazine	1.97	2.33		ug/L		119	70 - 130
Terbacil	1.97	2.05		ug/L		104	70 - 130
Terbutylazine	1.97	2.18		ug/L		111	70 - 130
Thiobencarb	1.97	1.91		ug/L		97	70 - 130
trans-Nonachlor	1.97	2.08		ug/L		105	70 - 130
Trifluralin	1.97	2.43		ug/L		124	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Nitro-m-xylene	94		70 - 130
Perylene-d12	104		70 - 130
Triphenylphosphate	109		70 - 130

**Lab Sample ID: MRL 380-72487/22-A**  
**Matrix: Water**  
**Analysis Batch: 72549**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 72487**

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	0.0985	0.111		ug/L		113	50 - 150
2,4'-DDD	0.0985	0.112		ug/L		114	50 - 150
2,4'-DDE	0.0985	0.0960	J	ug/L		97	50 - 150
2,4'-DDT	0.0985	0.0811	J	ug/L		82	50 - 150
2,4-Dinitrotoluene	0.0985	0.0803	J	ug/L		81	50 - 150
2,6-Dinitrotoluene	0.0985	0.0921	J	ug/L		94	50 - 150
2-Methylnaphthalene	0.0985	0.109		ug/L		110	50 - 150
4,4'-DDD	0.0985	0.0897	J	ug/L		91	50 - 150
4,4'-DDE	0.0985	0.130		ug/L		132	50 - 150
4,4'-DDT	0.0985	0.112		ug/L		113	50 - 150
Acenaphthene	0.0985	0.0896	J	ug/L		91	50 - 150
Acenaphthylene	0.0985	0.0796	J	ug/L		81	50 - 150
Acetochlor	0.0492	0.0374	J	ug/L		76	50 - 150
Alachlor	0.0492	0.0569		ug/L		116	50 - 150
alpha-BHC	0.0985	0.0945	J	ug/L		96	50 - 150
alpha-Chlordane	0.0246	<0.029		ug/L		108	50 - 150

# QC Sample Results

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

Job ID: 380-79348-1  
SDG: 525.2

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

**Lab Sample ID: MRL 380-72487/22-A**  
**Matrix: Water**  
**Analysis Batch: 72549**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 72487**

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Anthracene	0.0197	<0.019		ug/L		94	50 - 150
Atrazine	0.0492	0.0485	J	ug/L		98	50 - 150
Benz(a)anthracene	0.0492	0.0453	J	ug/L		92	50 - 150
Benzo[a]pyrene	0.0197	0.0159	J	ug/L		81	50 - 150
Benzo[b]fluoranthene	0.0197	0.0182	J	ug/L		92	50 - 150
Benzo[g,h,i]perylene	0.0492	0.0451	J	ug/L		92	50 - 150
Benzo[k]fluoranthene	0.0197	0.0170	J	ug/L		86	50 - 150
beta-BHC	0.0985	0.101		ug/L		102	50 - 150
Bis(2-ethylhexyl) phthalate	0.591	0.541	J	ug/L		92	50 - 150
Bromacil	0.0985	0.0977	J	ug/L		99	50 - 150
Butachlor	0.0492	0.0583		ug/L		118	50 - 150
Butylbenzylphthalate	0.148	0.156	J	ug/L		105	50 - 150
Chlorobenzilate	0.0985	0.134		ug/L		136	50 - 150
Chloroneb	0.0985	0.0953	J	ug/L		97	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0985	0.158	^3+	ug/L		161	50 - 150
Chlorpyrifos	0.0492	0.0492		ug/L		100	50 - 150
Chrysene	0.0197	0.0193	J	ug/L		98	50 - 150
delta-BHC	0.0985	0.104		ug/L		105	50 - 150
Di(2-ethylhexyl)adipate	0.295	0.330	J	ug/L		112	50 - 150
Dibenz(a,h)anthracene	0.0492	0.0389	J	ug/L		79	50 - 150
Diclorvos (DDVP)	0.0492	0.0488	J	ug/L		99	50 - 150
Dieldrin	0.0985	0.0972	J	ug/L		99	50 - 150
Diethylphthalate	0.148	0.166	J	ug/L		112	50 - 150
Dimethylphthalate	0.295	0.288	J	ug/L		97	50 - 150
Di-n-butyl phthalate	0.295	0.354	J	ug/L		120	49 - 243
Di-n-octyl phthalate	0.0985	0.108		ug/L		109	50 - 150
Endosulfan I (Alpha)	0.0985	0.0952	J	ug/L		97	50 - 150
Endosulfan II (Beta)	0.0985	0.122		ug/L		123	50 - 150
Endosulfan sulfate	0.0985	0.108		ug/L		110	50 - 150
Endrin	0.0985	0.0941	J	ug/L		96	50 - 150
Endrin aldehyde	0.0985	0.147		ug/L		150	50 - 150
EPTC	0.0985	0.105		ug/L		107	50 - 150
Fluoranthene	0.0492	0.0491	J	ug/L		100	50 - 150
Fluorene	0.0492	<0.049		ug/L		99	50 - 150
gamma-Chlordane	0.0246	0.0277	J	ug/L		112	50 - 150
Heptachlor	0.0394	0.0425		ug/L		108	50 - 150
Heptachlor epoxide (isomer B)	0.0492	0.0581		ug/L		118	50 - 150
Hexachlorobenzene	0.0492	0.0509		ug/L		103	50 - 150
Hexachlorocyclopentadiene	0.0492	0.0457	J	ug/L		93	50 - 150
Indeno[1,2,3-cd]pyrene	0.0492	0.0411	J	ug/L		84	50 - 150
Isophorone	0.0985	0.0934	J	ug/L		95	50 - 150
Lindane	0.0394	0.0367	J	ug/L		93	50 - 150
Malathion	0.0985	0.0998		ug/L		101	50 - 150
Methoxychlor	0.0985	0.0981		ug/L		100	50 - 150
Metolachlor	0.0492	0.0521		ug/L		106	50 - 150
Molinate	0.0985	0.100		ug/L		102	50 - 150
Naphthalene	0.0985	0.109	J	ug/L		111	50 - 150
Parathion	0.0985	0.117		ug/L		119	50 - 150
Pendimethalin (Penoxaline)	0.0985	0.0929	J	ug/L		94	50 - 150

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-79348-1  
SDG: 525.2

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

**Lab Sample ID: MRL 380-72487/22-A**  
**Matrix: Water**  
**Analysis Batch: 72549**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 72487**

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Phenanthrene	0.0197	0.0214	J	ug/L		109	50 - 150
Propachlor	0.0492	0.0508		ug/L		103	50 - 150
Pyrene	0.0492	0.0486	J	ug/L		99	50 - 150
Simazine	0.0492	0.0533		ug/L		108	50 - 150
Terbacil	0.0985	0.103		ug/L		104	50 - 150
Terbutylazine	0.0985	0.0987		ug/L		100	50 - 150
Thiobencarb	0.0985	0.0994	J	ug/L		101	50 - 150
trans-Nonachlor	0.0246	<0.026		ug/L		96	50 - 150
Trifluralin	0.0985	0.0887	J	ug/L		90	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
2-Nitro-m-xylene	96		70 - 130
Perylene-d12	102		70 - 130
Triphenylphosphate	105		70 - 130

**Lab Sample ID: 380-79297-W-1-A MS**  
**Matrix: Water**  
**Analysis Batch: 72549**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 72487**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.098		1.96	1.90		ug/L		97	70 - 130
2,4'-DDD	<0.098		1.96	2.07		ug/L		106	70 - 130
2,4'-DDE	<0.098		1.96	2.12		ug/L		108	70 - 130
2,4'-DDT	<0.098		1.96	2.26		ug/L		115	70 - 130
2,4-Dinitrotoluene	<0.098		1.96	2.24		ug/L		115	70 - 130
2,6-Dinitrotoluene	<0.098		1.96	2.11		ug/L		108	70 - 130
2-Methylnaphthalene	<0.098		1.96	2.00		ug/L		102	70 - 130
4,4'-DDD	<0.098		1.96	2.16		ug/L		111	70 - 130
4,4'-DDE	<0.098		1.96	1.99		ug/L		101	70 - 130
4,4'-DDT	<0.098		1.96	2.16		ug/L		110	70 - 130
Acenaphthene	<0.098		1.96	1.76		ug/L		90	70 - 130
Acenaphthylene	<0.098		1.96	1.85		ug/L		95	70 - 130
Acetochlor	<0.098		1.96	1.71		ug/L		87	70 - 130
Alachlor	<0.049		1.96	2.09		ug/L		107	70 - 130
alpha-BHC	<0.098		1.96	1.89		ug/L		97	70 - 130
alpha-Chlordane	<0.049		1.96	2.28		ug/L		117	70 - 130
Anthracene	<0.020		1.96	1.78		ug/L		91	70 - 130
Atrazine	<0.049		1.96	2.11		ug/L		108	70 - 130
Benz(a)anthracene	<0.049		1.96	2.14		ug/L		109	70 - 130
Benzo[a]pyrene	<0.020		1.96	2.05		ug/L		105	70 - 130
Benzo[b]fluoranthene	<0.020		1.96	2.07		ug/L		106	70 - 130
Benzo[g,h,i]perylene	<0.049		1.96	1.90		ug/L		97	70 - 130
Benzo[k]fluoranthene	<0.020		1.96	2.26		ug/L		115	70 - 130
beta-BHC	<0.098		1.96	1.95		ug/L		100	70 - 130
Bis(2-ethylhexyl) phthalate	<0.59		1.96	1.85		ug/L		94	70 - 130
Bromacil	<0.098		1.96	2.43		ug/L		124	70 - 130
Butachlor	<0.049		1.96	2.17		ug/L		111	70 - 130
Butylbenzylphthalate	<0.49		1.96	2.21		ug/L		113	70 - 130



# QC Sample Results

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

Job ID: 380-79348-1  
SDG: 525.2

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

**Lab Sample ID: 380-79297-W-1-A MS**  
**Matrix: Water**  
**Analysis Batch: 72549**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 72487**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
Chlorobenzilate	<0.098		1.96	2.35		ug/L		120	70 - 130
Chloroneb	<0.098		1.96	1.95		ug/L		100	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.098	^3+	1.96	2.09		ug/L		107	70 - 130
Chlorpyrifos	<0.049		1.96	2.18		ug/L		111	70 - 130
Chrysene	<0.020		1.96	1.96		ug/L		100	70 - 130
delta-BHC	<0.098		1.96	1.75		ug/L		89	70 - 130
Di(2-ethylhexyl)adipate	<0.59		1.96	2.18		ug/L		111	70 - 130
Dibenz(a,h)anthracene	<0.049		1.96	2.01		ug/L		103	70 - 130
Diclorvos (DDVP)	<0.049		1.96	1.70		ug/L		87	70 - 130
Dieldrin	<0.20		1.96	1.94		ug/L		99	70 - 130
Diethylphthalate	<0.49		1.96	2.02		ug/L		103	70 - 130
Dimethylphthalate	<0.49		1.96	2.03		ug/L		104	70 - 130
Di-n-butyl phthalate	<0.98		3.91	4.72		ug/L		118	70 - 130
Di-n-octyl phthalate	<0.098		1.96	1.64		ug/L		84	70 - 130
Endosulfan I (Alpha)	<0.098		1.96	1.87		ug/L		96	70 - 130
Endosulfan II (Beta)	<0.098		1.96	2.10		ug/L		107	70 - 130
Endosulfan sulfate	<0.098		1.96	2.38		ug/L		122	70 - 130
Endrin	<0.098		1.96	1.95		ug/L		100	70 - 130
Endrin aldehyde	<0.098		1.96	1.49		ug/L		76	70 - 130
EPTC	<0.098		1.96	2.19		ug/L		112	70 - 130
Fluoranthene	<0.098		1.96	2.12		ug/L		108	70 - 130
Fluorene	<0.049		1.96	2.00		ug/L		102	70 - 130
gamma-Chlordane	<0.049		1.96	2.36		ug/L		121	70 - 130
Heptachlor	<0.039		1.96	1.73		ug/L		89	70 - 130
Heptachlor epoxide (isomer B)	<0.049		1.96	2.20		ug/L		112	70 - 130
Hexachlorobenzene	<0.049		1.96	2.11		ug/L		108	70 - 130
Hexachlorocyclopentadiene	<0.049		1.96	2.18		ug/L		111	70 - 130
Indeno[1,2,3-cd]pyrene	<0.049		1.96	2.03		ug/L		104	70 - 130
Isophorone	<0.49		1.96	1.68		ug/L		86	70 - 130
Lindane	<0.039		1.96	1.94		ug/L		99	70 - 130
Malathion	<0.098		1.96	2.33		ug/L		119	70 - 130
Methoxychlor	<0.098		1.96	1.97		ug/L		101	70 - 130
Metolachlor	<0.049		1.96	2.21		ug/L		113	70 - 130
Molinate	<0.098		1.96	2.09		ug/L		107	70 - 130
Naphthalene	<0.29		1.96	1.79		ug/L		91	70 - 130
Parathion	<0.098		1.96	2.04		ug/L		104	70 - 130
Pendimethalin (Penoxaline)	<0.098		1.96	2.31		ug/L		118	70 - 130
Phenanthrene	<0.039		1.96	1.89		ug/L		97	70 - 130
Propachlor	<0.049		1.96	2.10		ug/L		107	70 - 130
Pyrene	<0.049		1.96	2.14		ug/L		109	70 - 130
Simazine	<0.049		1.96	2.23		ug/L		114	70 - 130
Terbacil	<0.098		1.96	2.06		ug/L		105	70 - 130
Terbutylazine	<0.098		1.96	2.07		ug/L		106	70 - 130
Thiobencarb	<0.20		1.96	1.99		ug/L		101	70 - 130
trans-Nonachlor	<0.049		1.96	2.14		ug/L		109	70 - 130
Trifluralin	<0.098	F1	1.96	2.57	F1	ug/L		131	70 - 130

# QC Sample Results

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

Job ID: 380-79348-1  
SDG: 525.2

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

**Lab Sample ID: 380-79297-W-1-A MS**  
**Matrix: Water**  
**Analysis Batch: 72549**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 72487**

<i>Surrogate</i>	<i>%Recovery</i>	<i>MS MS Qualifier</i>	<i>Limits</i>
2-Nitro-m-xylene	93		70 - 130
Perylene-d12	102		70 - 130
Triphenylphosphate	116		70 - 130

**Lab Sample ID: 380-79337-J-1-A DU**  
**Matrix: Water**  
**Analysis Batch: 72549**

**Client Sample ID: Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 72487**

Analyte	Sample Result	Sample Qualifier	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
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	^3+	<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	<0.20		<0.20		ug/L		NC	20
Diethylphthalate	<0.49		<0.49		ug/L		NC	20

# QC Sample Results

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

Job ID: 380-79348-1  
 SDG: 525.2

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

**Lab Sample ID: 380-79337-J-1-A DU**  
**Matrix: Water**  
**Analysis Batch: 72549**

**Client Sample ID: Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 72487**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Dimethylphthalate	<0.49		<0.49		ug/L		NC	20
Di-n-butyl phthalate	<0.98		<0.98		ug/L		NC	20
Di-n-octyl phthalate	<0.098		<0.098		ug/L		NC	20
Endosulfan I (Alpha)	<0.098		<0.098		ug/L		NC	20
Endosulfan II (Beta)	<0.098		<0.098		ug/L		NC	20
Endosulfan sulfate	<0.098		<0.098		ug/L		NC	20
Endrin	<0.098		<0.098		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	<0.039		<0.039		ug/L		NC	20
Heptachlor epoxide (isomer B)	<0.049		<0.049		ug/L		NC	20
Hexachlorobenzene	<0.049		<0.049		ug/L		NC	20
Hexachlorocyclopentadiene	<0.049		<0.049		ug/L		NC	20
Indeno[1,2,3-cd]pyrene	<0.049		<0.049		ug/L		NC	20
Isophorone	<0.49		<0.49		ug/L		NC	20
Lindane	<0.039		<0.039		ug/L		NC	20
Malathion	<0.098		<0.098		ug/L		NC	20
Methoxychlor	<0.098		<0.098		ug/L		NC	20
Metolachlor	<0.049		<0.049		ug/L		NC	20
Molinate	<0.098		<0.098		ug/L		NC	20
Naphthalene	<0.29		<0.29		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	<0.20		<0.20		ug/L		NC	20
Total Permethrin (mixed isomers)	<0.20		<0.20		ug/L		NC	20
trans-Nonachlor	<0.049		<0.049		ug/L		NC	20
Trifluralin	<0.098		<0.098		ug/L		NC	20

Surrogate	DU %Recovery	DU Qualifier	Limits
2-Nitro-m-xylene	97		70 - 130
Perylene-d12	100		70 - 130
Triphenylphosphate	105		70 - 130

# QC Association Summary

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

Job ID: 380-79348-1  
 SDG: 525.2

## GC/MS Semi VOA

### Prep Batch: 72487

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-79348-1	MOANALUA WELLS	Total/NA	Drinking Water	525.2	
MB 380-72487/21-A	Method Blank	Total/NA	Water	525.2	
LCS 380-72487/23-A	Lab Control Sample	Total/NA	Water	525.2	
MRL 380-72487/22-A	Lab Control Sample	Total/NA	Water	525.2	
380-79297-W-1-A MS	Matrix Spike	Total/NA	Water	525.2	
380-79337-J-1-A DU	Duplicate	Total/NA	Water	525.2	

### Analysis Batch: 72549

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-79348-1	MOANALUA WELLS	Total/NA	Drinking Water	525.2	72487
MB 380-72487/21-A	Method Blank	Total/NA	Water	525.2	72487
LCS 380-72487/23-A	Lab Control Sample	Total/NA	Water	525.2	72487
MRL 380-72487/22-A	Lab Control Sample	Total/NA	Water	525.2	72487
380-79297-W-1-A MS	Matrix Spike	Total/NA	Water	525.2	72487
380-79337-J-1-A DU	Duplicate	Total/NA	Water	525.2	72487



# Lab Chronicle

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

Job ID: 380-79348-1  
SDG: 525.2

**Client Sample ID: MOANALUA WELLS**

**Lab Sample ID: 380-79348-1**

**Date Collected: 01/16/24 10:30**

**Matrix: Drinking Water**

**Date Received: 01/19/24 11:00**

<u>Prep Type</u>	<u>Batch Type</u>	<u>Batch Method</u>	<u>Run</u>	<u>Dilution Factor</u>	<u>Batch Number</u>	<u>Analyst</u>	<u>Lab</u>	<u>Prepared or Analyzed</u>
Total/NA	Prep	525.2			72487	N8NE	EA POM	01/21/24 14:30
Total/NA	Analysis	525.2		1	72549	Q8LA	EA POM	01/22/24 15:35

**Laboratory References:**

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

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# Accreditation/Certification Summary

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

Job ID: 380-79348-1  
SDG: 525.2

## 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	01-31-24

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

Analysis Method	Prep Method	Matrix	Analyte
525.2	525.2	Drinking Water	1-Methylnaphthalene
525.2	525.2	Drinking Water	2,4'-DDD
525.2	525.2	Drinking Water	2,4'-DDE
525.2	525.2	Drinking Water	2,4'-DDT
525.2	525.2	Drinking Water	2,4-Dinitrotoluene
525.2	525.2	Drinking Water	2,6-Dinitrotoluene
525.2	525.2	Drinking Water	2-Methylnaphthalene
525.2	525.2	Drinking Water	4,4'-DDD
525.2	525.2	Drinking Water	4,4'-DDE
525.2	525.2	Drinking Water	4,4' DDT
525.2	525.2	Drinking Water	Acenaphthene
525.2	525.2	Drinking Water	Acenaphthylene
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	Anthracene
525.2	525.2	Drinking Water	Benz(a)anthracene
525.2	525.2	Drinking Water	Benzo[b]fluoranthene
525.2	525.2	Drinking Water	Benzo[g,h,i]perylene
525.2	525.2	Drinking Water	Benzo[k]fluoranthene
525.2	525.2	Drinking Water	beta-BHC
525.2	525.2	Drinking Water	Bromacil
525.2	525.2	Drinking Water	Butylbenzylphthalate
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	Chrysene
525.2	525.2	Drinking Water	delta-BHC
525.2	525.2	Drinking Water	Dibenz(a,h)anthracene
525.2	525.2	Drinking Water	Diclorvos (DDVP)
525.2	525.2	Drinking Water	Diethylphthalate
525.2	525.2	Drinking Water	Dimethylphthalate
525.2	525.2	Drinking Water	Di-n-butyl phthalate
525.2	525.2	Drinking Water	Di n octyl phthalate
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	Fluoranthene
525.2	525.2	Drinking Water	Fluorene
525.2	525.2	Drinking Water	gamma-Chlordane
525.2	525.2	Drinking Water	Indeno[1,2,3-cd]pyrene
525.2	525.2	Drinking Water	Isophorone

# Accreditation/Certification Summary

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

Job ID: 380-79348-1  
SDG: 525.2

## Laboratory: Eurofins Eaton Analytical Pomona (Continued)

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

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

Analysis Method	Prep Method	Matrix	Analyte
525.2	525.2	Drinking Water	Malathion
525.2	525.2	Drinking Water	Molinate
525.2	525.2	Drinking Water	Naphthalene
525.2	525.2	Drinking Water	Parathion
525.2	525.2	Drinking Water	Pendimethalin (Penoxaline)
525.2	525.2	Drinking Water	Phenanthrene
525.2	525.2	Drinking Water	Pyrene
525.2	525.2	Drinking Water	Terbacil
525.2	525.2	Drinking Water	Terbutylazine
525.2	525.2	Drinking Water	Thiobencarb
525.2	525.2	Drinking Water	Total Permethrin (mixed isomers)
525.2	525.2	Drinking Water	trans-Nonachlor
525.2	525.2	Drinking Water	Trifluralin

# Method Summary

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

Job ID: 380-79348-1  
SDG: 525.2

Method	Method Description	Protocol	Laboratory
525.2	Semivolatile Organic Compounds (GC/MS)	EPA	EA POM
525.2	Extraction of Semivolatile Compounds	EPA	EA POM

**Protocol References:**

EPA = US Environmental Protection Agency

**Laboratory References:**

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





# Sample Summary

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

Job ID: 380-79348-1  
SDG: 525.2

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received	PWSID Number
380-79348-1	MOANALUA WELLS	Drinking Water	01/16/24 10:30	01/19/24 11:00	HI0000331

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

**Chain of Custody Record**



Environment Testing  
 America

Client Information		Lab PM		Carrier Tracking No(s)		COC No	
630 South Beretania Street, Chemistry Lab Honolulu HI, 96843 Phone 808-748-5091 (tel) Email rfenstermacher@hbws.org		Arada, Rachelle E-Mail Rachelle.Arada@get.eurofins.com		380-7941-2757 2 Page 1 of 1		380-27941-2757 2 Page 1 of 1	
Project Name RED-HILL/HBWS sites Event Desc: RUSH Weekly Red Hill Site		Project # 38001111 SSON#		State of Origin PWSID		Job #	
Due Date Requested: TAT Requested (days): Compliance Project: Δ No PO # C20525101 exp 05312023 WO #		Matrix (W=water, S=solid, O=wastewater, BT=Tissue, A=Air)		Analysis Requested		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify) Other:	
Sample Identification TB MOANALUA WELLS		Sample Type (C=Comp, G=grab)		Sample Time 16-Jan-2024 6:30		Total Number of containers	
Sample Date 16-Jan-2024		Preservation Code: Water		SUBCONTRACT - 625 PAH Physis LL (EAL) + TICS		Special Instructions/Note: DIDN'T RECEIVE - GC 01/19/2024	
MOANALUA WELLS		Sample Date 16-Jan-2024		SUBCONTRACT - 8015 Gas (Purgable) LL (EAL)		DIDN'T RECEIVE - GC 01/19/2024	
MOANALUA WELLS		Sample Time 16-Jan-2024		SUBCONTRACT - 8915 Diesel LL (EAL) and Motor Oil		DIDN'T RECEIVE - GC 01/19/2024	
MOANALUA WELLS		Sample Type G		SUBCONTRACT - 8915 Gas (Purgable) LL (EAL)		DIDN'T RECEIVE - GC 01/19/2024	
MOANALUA WELLS		Sample Date 16-Jan-2024		SUBCONTRACT - (MOD) 525plus PLUS TICS		DIDN'T RECEIVE - GC 01/19/2024	
MOANALUA WELLS		Sample Time 16-Jan-2024		SUBCONTRACT - 537.1 DW_PREC - 537.1 Full List		DIDN'T RECEIVE - GC 01/19/2024	
MOANALUA WELLS		Sample Date 16-Jan-2024		SUBCONTRACT - 533 - All Analytes		DIDN'T RECEIVE - GC 01/19/2024	
MOANALUA WELLS		Sample Time 16-Jan-2024		SUBCONTRACT - 8015 Gas (Purgable) LL (EAL)		DIDN'T RECEIVE - GC 01/19/2024	
MOANALUA WELLS		Sample Date 16-Jan-2024		SUBCONTRACT - 8915 Diesel LL (EAL) and Motor Oil		DIDN'T RECEIVE - GC 01/19/2024	
MOANALUA WELLS		Sample Type G		SUBCONTRACT - 8015 Gas (Purgable) LL (EAL)		DIDN'T RECEIVE - GC 01/19/2024	
MOANALUA WELLS		Sample Date 16-Jan-2024		SUBCONTRACT - 8915 Diesel LL (EAL) and Motor Oil		DIDN'T RECEIVE - GC 01/19/2024	
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Ver 01/16/2019

# Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-79348-1

SDG Number: 525.2

**Login Number: 79348**

**List Number: 1**

**Creator: Elyas, Matthew**

**List Source: Eurofins Eaton Analytical Pomona**

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	False	Did not receive the 8015 Gas vials listed on the COC.
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	
Samples do not require splitting or compositing.	True	
Container provided by EEA	True	

