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# ANALYTICAL REPORT

## PREPARED FOR

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## JOB DESCRIPTION

RED-HILL  
Weekly: Moanalua Wells P1

## JOB NUMBER

380-195015-1

# Eurofins 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 Drinking Water and Wastewater West, 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: 380-195015-1  
SDG: Weekly: Moanalua Wells P1

## Qualifiers

### GC/MS Semi VOA

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

### GC/MS Semi VOA TICs

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

## Glossary

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

# Case Narrative

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

Job ID: 380-195015-1

**Job ID: 380-195015-1**

**Eurofins Pomona**

## Job Narrative 380-195015-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

### Receipt

The samples were received on 1/29/2026 9:52 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.6°C.

### GC/MS Semi VOA

Method 625.1: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 570-689280. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch. 625 Sim

Method 625.1 SIM: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 570-689280. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch. 625 Sim

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.

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# Detection Summary

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

Job ID: 380-195015-1  
SDG: Weekly: Moanalua Wells P1

## Client Sample ID: MOANALUA WELLS P1

## Lab Sample ID: 380-195015-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Dieldrin	0.029		0.010	ug/L	1		525.2	Total/NA

## Client Sample ID: TB: MOANALUA WELLS P1

## Lab Sample ID: 380-195015-2

No Detections.

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This Detection Summary does not include radiochemical test results.

# Client Sample Results

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

Job ID: 380-195015-1  
SDG: Weekly: Moanalua Wells P1

**Client Sample ID: MOANALUA WELLS P1**

**Lab Sample ID: 380-195015-1**

Date Collected: 01/26/26 10:08

Matrix: Water

Date Received: 01/29/26 09:52

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.10		0.10	ug/L		02/02/26 07:46	02/04/26 15:45	1
2,4'-DDD	<0.10		0.10	ug/L		02/02/26 07:46	02/04/26 15:45	1
2,4'-DDE	<0.10		0.10	ug/L		02/02/26 07:46	02/04/26 15:45	1
2,4'-DDT	<0.10		0.10	ug/L		02/02/26 07:46	02/04/26 15:45	1
2,4-Dinitrotoluene	<0.10		0.10	ug/L		02/02/26 07:46	02/04/26 15:45	1
2,6-Dinitrotoluene	<0.10		0.10	ug/L		02/02/26 07:46	02/04/26 15:45	1
2-Methylnaphthalene	<0.10		0.10	ug/L		02/02/26 07:46	02/04/26 15:45	1
4,4'-DDD	<0.10		0.10	ug/L		02/02/26 07:46	02/04/26 15:45	1
4,4'-DDE	<0.10		0.10	ug/L		02/02/26 07:46	02/04/26 15:45	1
4,4'-DDT	<0.10		0.10	ug/L		02/02/26 07:46	02/04/26 15:45	1
Acenaphthene	<0.10		0.10	ug/L		02/02/26 07:46	02/04/26 15:45	1
Acenaphthylene	<0.10		0.10	ug/L		02/02/26 07:46	02/04/26 15:45	1
Acetochlor	<0.10		0.10	ug/L		02/02/26 07:46	02/04/26 15:45	1
Alachlor	<0.050		0.050	ug/L		02/02/26 07:46	02/04/26 15:45	1
alpha-BHC	<0.10		0.10	ug/L		02/02/26 07:46	02/04/26 15:45	1
alpha-Chlordane	<0.050		0.050	ug/L		02/02/26 07:46	02/04/26 15:45	1
Anthracene	<0.020		0.020	ug/L		02/02/26 07:46	02/04/26 15:45	1
Atrazine	<0.050		0.050	ug/L		02/02/26 07:46	02/04/26 15:45	1
Benz(a)anthracene	<0.050		0.050	ug/L		02/02/26 07:46	02/04/26 15:45	1
Benzo[a]pyrene	<0.020		0.020	ug/L		02/02/26 07:46	02/04/26 15:45	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		02/02/26 07:46	02/04/26 15:45	1
Benzo[g,h,i]perylene	<0.050		0.050	ug/L		02/02/26 07:46	02/04/26 15:45	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		02/02/26 07:46	02/04/26 15:45	1
beta-BHC	<0.10		0.10	ug/L		02/02/26 07:46	02/04/26 15:45	1
Bis(2-ethylhexyl) phthalate	<0.60		0.60	ug/L		02/02/26 07:46	02/04/26 15:45	1
Bromacil	<0.10		0.10	ug/L		02/02/26 07:46	02/04/26 15:45	1
Butachlor	<0.050		0.050	ug/L		02/02/26 07:46	02/04/26 15:45	1
Butylbenzylphthalate	<0.50		0.50	ug/L		02/02/26 07:46	02/04/26 15:45	1
Chlorobenzilate	<0.10		0.10	ug/L		02/02/26 07:46	02/04/26 15:45	1
Chloroneb	<0.10		0.10	ug/L		02/02/26 07:46	02/04/26 15:45	1
Chlorothalonil (Draconil, Bravo)	<0.10		0.10	ug/L		02/02/26 07:46	02/04/26 15:45	1
Chlorpyrifos	<0.050		0.050	ug/L		02/02/26 07:46	02/04/26 15:45	1
Chrysene	<0.020		0.020	ug/L		02/02/26 07:46	02/04/26 15:45	1
delta-BHC	<0.10		0.10	ug/L		02/02/26 07:46	02/04/26 15:45	1
Di(2-ethylhexyl)adipate	<0.60		0.60	ug/L		02/02/26 07:46	02/04/26 15:45	1
Dibenz(a,h)anthracene	<0.050		0.050	ug/L		02/02/26 07:46	02/04/26 15:45	1
Diclorvos (DDVP)	<0.050		0.050	ug/L		02/02/26 07:46	02/04/26 15:45	1
<b>Dieldrin</b>	<b>0.029</b>		0.010	ug/L		02/02/26 07:46	02/04/26 15:45	1
Diethylphthalate	<0.50		0.50	ug/L		02/02/26 07:46	02/04/26 15:45	1
Dimethylphthalate	<0.50		0.50	ug/L		02/02/26 07:46	02/04/26 15:45	1
Di-n-butyl phthalate	<1.0		1.0	ug/L		02/02/26 07:46	02/04/26 15:45	1
Di-n-octyl phthalate	<0.10		0.10	ug/L		02/02/26 07:46	02/04/26 15:45	1
Endosulfan I (Alpha)	<0.10		0.10	ug/L		02/02/26 07:46	02/04/26 15:45	1
Endosulfan II (Beta)	<0.10		0.10	ug/L		02/02/26 07:46	02/04/26 15:45	1
Endosulfan sulfate	<0.10		0.10	ug/L		02/02/26 07:46	02/04/26 15:45	1
Endrin	<0.010		0.010	ug/L		02/02/26 07:46	02/04/26 15:45	1
Endrin aldehyde	<0.10		0.10	ug/L		02/02/26 07:46	02/04/26 15:45	1
EPTC	<0.10		0.10	ug/L		02/02/26 07:46	02/04/26 15:45	1
Fluoranthene	<0.10		0.10	ug/L		02/02/26 07:46	02/04/26 15:45	1

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# Client Sample Results

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

Job ID: 380-195015-1  
SDG: Weekly: Moanalua Wells P1

**Client Sample ID: MOANALUA WELLS P1**

**Lab Sample ID: 380-195015-1**

Date Collected: 01/26/26 10:08

Matrix: Water

Date Received: 01/29/26 09:52

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	<0.050		0.050	ug/L		02/02/26 07:46	02/04/26 15:45	1
gamma-Chlordane	<0.050		0.050	ug/L		02/02/26 07:46	02/04/26 15:45	1
Heptachlor	<0.010		0.010	ug/L		02/02/26 07:46	02/04/26 15:45	1
Heptachlor epoxide (isomer B)	<0.010		0.010	ug/L		02/02/26 07:46	02/04/26 15:45	1
Hexachlorobenzene	<0.050		0.050	ug/L		02/02/26 07:46	02/04/26 15:45	1
Hexachlorocyclopentadiene	<0.050		0.050	ug/L		02/02/26 07:46	02/04/26 15:45	1
Indeno[1,2,3-cd]pyrene	<0.050		0.050	ug/L		02/02/26 07:46	02/04/26 15:45	1
Isophorone	<0.10		0.10	ug/L		02/02/26 07:46	02/04/26 15:45	1
Lindane	<0.010		0.010	ug/L		02/02/26 07:46	02/04/26 15:45	1
Malathion	<0.10		0.10	ug/L		02/02/26 07:46	02/04/26 15:45	1
Methoxychlor	<0.050		0.050	ug/L		02/02/26 07:46	02/04/26 15:45	1
Metolachlor	<0.050		0.050	ug/L		02/02/26 07:46	02/04/26 15:45	1
Molinate	<0.10		0.10	ug/L		02/02/26 07:46	02/04/26 15:45	1
Naphthalene	<0.10		0.10	ug/L		02/02/26 07:46	02/04/26 15:45	1
Parathion	<0.10		0.10	ug/L		02/02/26 07:46	02/04/26 15:45	1
Pendimethalin (Penoxaline)	<0.10		0.10	ug/L		02/02/26 07:46	02/04/26 15:45	1
Phenanthrene	<0.040		0.040	ug/L		02/02/26 07:46	02/04/26 15:45	1
Propachlor	<0.050		0.050	ug/L		02/02/26 07:46	02/04/26 15:45	1
Pyrene	<0.050		0.050	ug/L		02/02/26 07:46	02/04/26 15:45	1
Simazine	<0.050		0.050	ug/L		02/02/26 07:46	02/04/26 15:45	1
Terbacil	<0.10		0.10	ug/L		02/02/26 07:46	02/04/26 15:45	1
Terbutylazine	<0.10		0.10	ug/L		02/02/26 07:46	02/04/26 15:45	1
Thiobencarb	<0.10		0.10	ug/L		02/02/26 07:46	02/04/26 15:45	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		02/02/26 07:46	02/04/26 15:45	1
trans-Nonachlor	<0.050		0.050	ug/L		02/02/26 07:46	02/04/26 15:45	1
Trifluralin	<0.10		0.10	ug/L		02/02/26 07:46	02/04/26 15:45	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	02/02/26 07:46	02/04/26 15:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	99		70 - 130	02/02/26 07:46	02/04/26 15:45	1
Perylene-d12	97		70 - 130	02/02/26 07:46	02/04/26 15:45	1
Triphenylphosphate	103		70 - 130	02/02/26 07:46	02/04/26 15:45	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.19		0.19	ug/L		01/30/26 12:01	02/04/26 10:29	1
2-Methylnaphthalene	<0.19		0.19	ug/L		01/30/26 12:01	02/04/26 10:29	1
Acenaphthene	<0.19		0.19	ug/L		01/30/26 12:01	02/04/26 10:29	1
Acenaphthylene	<0.19		0.19	ug/L		01/30/26 12:01	02/04/26 10:29	1
Anthracene	<0.19		0.19	ug/L		01/30/26 12:01	02/04/26 10:29	1
Benzo[a]anthracene	<0.19		0.19	ug/L		01/30/26 12:01	02/04/26 10:29	1
Benzo[a]pyrene	<0.19		0.19	ug/L		01/30/26 12:01	02/04/26 10:29	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		01/30/26 12:01	02/04/26 10:29	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		01/30/26 12:01	02/04/26 10:29	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		01/30/26 12:01	02/04/26 10:29	1
Chrysene	<0.19		0.19	ug/L		01/30/26 12:01	02/04/26 10:29	1
Dibenz(a,h)anthracene	<0.19		0.19	ug/L		01/30/26 12:01	02/04/26 10:29	1
Fluoranthene	<0.19		0.19	ug/L		01/30/26 12:01	02/04/26 10:29	1

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# Client Sample Results

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

Job ID: 380-195015-1  
SDG: Weekly: Moanalua Wells P1

**Client Sample ID: MOANALUA WELLS P1**

**Lab Sample ID: 380-195015-1**

Date Collected: 01/26/26 10:08

Matrix: Water

Date Received: 01/29/26 09:52

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	<0.19		0.19	ug/L		01/30/26 12:01	02/04/26 10:29	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		01/30/26 12:01	02/04/26 10:29	1
Naphthalene	<0.19		0.19	ug/L		01/30/26 12:01	02/04/26 10:29	1
Phenanthrene	<0.19		0.19	ug/L		01/30/26 12:01	02/04/26 10:29	1
Pyrene	<0.19		0.19	ug/L		01/30/26 12:01	02/04/26 10:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	97		28 - 127	01/30/26 12:01	02/04/26 10:29	1
2-Fluorobiphenyl (Surr)	87		31 - 120	01/30/26 12:01	02/04/26 10:29	1
2-Fluorophenol (Surr)	54		17 - 120	01/30/26 12:01	02/04/26 10:29	1
Nitrobenzene-d5 (Surr)	90		27 - 120	01/30/26 12:01	02/04/26 10:29	1
Phenol-d6 (Surr)	34		10 - 120	01/30/26 12:01	02/04/26 10:29	1
p-Terphenyl-d14 (Surr)	80		45 - 120	01/30/26 12:01	02/04/26 10:29	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	01/30/26 12:01	02/05/26 10:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	79		33 - 139	01/30/26 12:01	02/05/26 10:59	1
2-Fluorobiphenyl (Surr)	94		33 - 126	01/30/26 12:01	02/05/26 10:59	1
2-Fluorophenol (Surr)	63		12 - 120	01/30/26 12:01	02/05/26 10:59	1
Nitrobenzene-d5 (Surr)	85		36 - 120	01/30/26 12:01	02/05/26 10:59	1
Phenol-d6 (Surr)	31		10 - 120	01/30/26 12:01	02/05/26 10:59	1
p-Terphenyl-d14 (Surr)	94		47 - 131	01/30/26 12:01	02/05/26 10:59	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			02/04/26 17:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		38 - 134		02/04/26 17:13	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		02/02/26 09:35	02/06/26 20:23	1
Motor Oil Range Organics [C24-C36]	<26		26	ug/L		02/02/26 09:35	02/06/26 20:23	1
C8-C18	<26		26	ug/L		02/02/26 09:35	02/06/26 20:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	102		60 - 130	02/02/26 09:35	02/06/26 20:23	1

**Client Sample ID: TB: MOANALUA WELLS P1**

**Lab Sample ID: 380-195015-2**

Date Collected: 01/26/26 10:08

Matrix: Water

Date Received: 01/29/26 09:52

**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			02/04/26 21:27	1

# Client Sample Results

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

Job ID: 380-195015-1  
SDG: Weekly: Moanalua Wells P1

**Client Sample ID: TB: MOANALUA WELLS P1**

**Lab Sample ID: 380-195015-2**

**Date Collected: 01/26/26 10:08**

**Matrix: Water**

**Date Received: 01/29/26 09:52**

<u>Surrogate</u>	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Dil Fac</u>
4-Bromofluorobenzene (Surr)	95		38 - 134		02/04/26 21:27	1

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

# Action Limit Summary

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

Job ID: 380-195015-1  
SDG: Weekly: Moanalua Wells P1

**Client Sample ID: MOANALUA WELLS P1**

**Lab Sample ID: 380-195015-1**

## Compliance Check

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

Analyte	Result	Qualifier	Unit	EPAMCL	RL	Method	Prep Type
				Limit			
Alachlor	<0.050		ug/L	2	0.050	525.2	Total/NA
Atrazine	<0.050		ug/L	3	0.050	525.2	Total/NA
Benzo[a]pyrene	<0.020		ug/L	0.2	0.020	525.2	Total/NA
Bis(2-ethylhexyl) phthalate	<0.60		ug/L	6	0.60	525.2	Total/NA
Di(2-ethylhexyl)adipate	<0.60		ug/L	400	0.60	525.2	Total/NA
Endrin	<0.010		ug/L	2	0.010	525.2	Total/NA
Heptachlor	<0.010		ug/L	0.4	0.010	525.2	Total/NA
Heptachlor epoxide (isomer B)	<0.010		ug/L	0.2	0.010	525.2	Total/NA
Hexachlorobenzene	<0.050		ug/L	1	0.050	525.2	Total/NA
Hexachlorocyclopentadiene	<0.050		ug/L	50	0.050	525.2	Total/NA
Lindane	<0.010		ug/L	0.2	0.010	525.2	Total/NA
Methoxychlor	<0.050		ug/L	40	0.050	525.2	Total/NA
Simazine	<0.050		ug/L	4	0.050	525.2	Total/NA
Benzo[a]pyrene	<0.19		ug/L	0.2	0.19	625.1 SIM	Total/NA

# Surrogate Summary

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

Job ID: 380-195015-1  
SDG: Weekly: Moanalua Wells P1

## 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)
380-195015-1	MOANALUA WELLS P1	99	97	103
380-195033-B-1-A MS	Matrix Spike	101	97	108
380-195033-C-1-A MSD	Matrix Spike Duplicate	99	101	109
LCS 380-202654/23-A	Lab Control Sample	99	99	102
MB 380-202654/21-A	Method Blank	101	94	104
MRL 380-202654/22-A	Lab Control Sample	102	96	104

### Surrogate Legend

2NMX = 2-Nitro-m-xylene

PRY = Perylene-d12

TPP = Triphenylphosphate

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (33-139)	FBP (33-126)	2FP (12-120)	NBZ (36-120)	PHL6 (10-120)	TPHd14 (47-131)
380-195015-1	MOANALUA WELLS P1	79	94	63	85	31	94
MB 570-689280/1-A	Method Blank	75	78	58	72	30	84

### Surrogate Legend

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

FBP = 2-Fluorobiphenyl (Surr)

2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

PHL6 = Phenol-d6 (Surr)

TPHd14 = p-Terphenyl-d14 (Surr)

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (28-127)	FBP (31-120)	2FP (17-120)	NBZ (27-120)	PHL6 (10-120)	TPHd14 (45-120)
380-195015-1	MOANALUA WELLS P1	97	87	54	90	34	80
LCS 570-689280/2-A	Lab Control Sample	98	87	63	91	44	94
LCSD 570-689280/3-A	Lab Control Sample Dup	81	76	57	80	39	84
MB 570-689280/1-A	Method Blank	85	73	48	77	32	74

### 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: 380-195015-1  
 SDG: Weekly: Moanalua Wells P1

## 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)
380-195015-1	MOANALUA WELLS P1	96
380-195015-2	TB: MOANALUA WELLS P1	95
380-195023-B-1 MS	Matrix Spike	94
380-195023-C-1 MSD	Matrix Spike Duplicate	93
LCS 570-691227/4	Lab Control Sample	77
LCSD 570-691227/5	Lab Control Sample Dup	83
MB 570-691227/6	Method Blank	84
MRL 570-691227/7	Lab Control Sample	80

**Surrogate Legend**

BFB = 4-Bromofluorobenzene (Surr)

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

Matrix: Water

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	OTCSN1 (60-130)
380-194998-C-1-A MS	Matrix Spike	111
380-194998-D-1-A MSD	Matrix Spike Duplicate	97
380-195015-1	MOANALUA WELLS P1	102
380-195023-B-1-A MSD	Matrix Spike Duplicate	95
380-195023-C-1-A MS	Matrix Spike	102
380-195033-B-1-B MS	Matrix Spike	103
380-195033-B-1-C MSD	Matrix Spike Duplicate	105
LCS 570-689963/2-A	Lab Control Sample	99
LCSD 570-689963/3-A	Lab Control Sample Dup	105
MB 570-689963/1-A	Method Blank	105
MRL 570-689963/4-A	Lab Control Sample	94

**Surrogate Legend**

OTCSN = n-Octacosane (Surr)

# QC Sample Results

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

Job ID: 380-195015-1  
 SDG: Weekly: Moanalua Wells P1

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

**Lab Sample ID: MB 380-202654/21-A**  
**Matrix: Water**  
**Analysis Batch: 203288**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 202654**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.099		0.099	ug/L		02/02/26 07:46	02/04/26 08:50	1
2,4'-DDD	<0.099		0.099	ug/L		02/02/26 07:46	02/04/26 08:50	1
2,4'-DDE	<0.099		0.099	ug/L		02/02/26 07:46	02/04/26 08:50	1
2,4'-DDT	<0.099		0.099	ug/L		02/02/26 07:46	02/04/26 08:50	1
2,4-Dinitrotoluene	<0.099		0.099	ug/L		02/02/26 07:46	02/04/26 08:50	1
2,6-Dinitrotoluene	<0.099		0.099	ug/L		02/02/26 07:46	02/04/26 08:50	1
2-Methylnaphthalene	<0.099		0.099	ug/L		02/02/26 07:46	02/04/26 08:50	1
4,4'-DDD	<0.099		0.099	ug/L		02/02/26 07:46	02/04/26 08:50	1
4,4'-DDE	<0.099		0.099	ug/L		02/02/26 07:46	02/04/26 08:50	1
4,4'-DDT	<0.099		0.099	ug/L		02/02/26 07:46	02/04/26 08:50	1
Acenaphthene	<0.099		0.099	ug/L		02/02/26 07:46	02/04/26 08:50	1
Acenaphthylene	<0.099		0.099	ug/L		02/02/26 07:46	02/04/26 08:50	1
Acetochlor	<0.099		0.099	ug/L		02/02/26 07:46	02/04/26 08:50	1
Alachlor	<0.050		0.050	ug/L		02/02/26 07:46	02/04/26 08:50	1
alpha-BHC	<0.099		0.099	ug/L		02/02/26 07:46	02/04/26 08:50	1
alpha-Chlordane	<0.050		0.050	ug/L		02/02/26 07:46	02/04/26 08:50	1
Anthracene	<0.020		0.020	ug/L		02/02/26 07:46	02/04/26 08:50	1
Atrazine	<0.050		0.050	ug/L		02/02/26 07:46	02/04/26 08:50	1
Benz(a)anthracene	<0.050		0.050	ug/L		02/02/26 07:46	02/04/26 08:50	1
Benzo[a]pyrene	<0.020		0.020	ug/L		02/02/26 07:46	02/04/26 08:50	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		02/02/26 07:46	02/04/26 08:50	1
Benzo[g,h,i]perylene	<0.050		0.050	ug/L		02/02/26 07:46	02/04/26 08:50	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		02/02/26 07:46	02/04/26 08:50	1
beta-BHC	<0.099		0.099	ug/L		02/02/26 07:46	02/04/26 08:50	1
Bis(2-ethylhexyl) phthalate	<0.60		0.60	ug/L		02/02/26 07:46	02/04/26 08:50	1
Bromacil	<0.099		0.099	ug/L		02/02/26 07:46	02/04/26 08:50	1
Butachlor	<0.050		0.050	ug/L		02/02/26 07:46	02/04/26 08:50	1
Butylbenzylphthalate	<0.50		0.50	ug/L		02/02/26 07:46	02/04/26 08:50	1
Chlorobenzilate	<0.099		0.099	ug/L		02/02/26 07:46	02/04/26 08:50	1
Chloroneb	<0.099		0.099	ug/L		02/02/26 07:46	02/04/26 08:50	1
Chlorothalonil (Draconil, Bravo)	<0.099		0.099	ug/L		02/02/26 07:46	02/04/26 08:50	1
Chlorpyrifos	<0.050		0.050	ug/L		02/02/26 07:46	02/04/26 08:50	1
Chrysene	<0.020		0.020	ug/L		02/02/26 07:46	02/04/26 08:50	1
delta-BHC	<0.099		0.099	ug/L		02/02/26 07:46	02/04/26 08:50	1
Di(2-ethylhexyl)adipate	<0.60		0.60	ug/L		02/02/26 07:46	02/04/26 08:50	1
Dibenz(a,h)anthracene	<0.050		0.050	ug/L		02/02/26 07:46	02/04/26 08:50	1
Diclorvos (DDVP)	<0.050		0.050	ug/L		02/02/26 07:46	02/04/26 08:50	1
Dieldrin	<0.0099		0.0099	ug/L		02/02/26 07:46	02/04/26 08:50	1
Diethylphthalate	<0.50		0.50	ug/L		02/02/26 07:46	02/04/26 08:50	1
Dimethylphthalate	<0.50		0.50	ug/L		02/02/26 07:46	02/04/26 08:50	1
Di-n-butyl phthalate	<0.99		0.99	ug/L		02/02/26 07:46	02/04/26 08:50	1
Di-n-octyl phthalate	<0.099		0.099	ug/L		02/02/26 07:46	02/04/26 08:50	1
Endosulfan I (Alpha)	<0.099		0.099	ug/L		02/02/26 07:46	02/04/26 08:50	1
Endosulfan II (Beta)	<0.099		0.099	ug/L		02/02/26 07:46	02/04/26 08:50	1
Endosulfan sulfate	<0.099		0.099	ug/L		02/02/26 07:46	02/04/26 08:50	1
Endrin	<0.0099		0.0099	ug/L		02/02/26 07:46	02/04/26 08:50	1
Endrin aldehyde	<0.099		0.099	ug/L		02/02/26 07:46	02/04/26 08:50	1
EPTC	<0.099		0.099	ug/L		02/02/26 07:46	02/04/26 08:50	1

# QC Sample Results

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

Job ID: 380-195015-1  
SDG: Weekly: Moanalua Wells P1

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

**Lab Sample ID: MB 380-202654/21-A**  
**Matrix: Water**  
**Analysis Batch: 203288**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 202654**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.099		0.099	ug/L		02/02/26 07:46	02/04/26 08:50	1
Fluorene	<0.050		0.050	ug/L		02/02/26 07:46	02/04/26 08:50	1
gamma-Chlordane	<0.050		0.050	ug/L		02/02/26 07:46	02/04/26 08:50	1
Heptachlor	<0.0099		0.0099	ug/L		02/02/26 07:46	02/04/26 08:50	1
Heptachlor epoxide (isomer B)	<0.0099		0.0099	ug/L		02/02/26 07:46	02/04/26 08:50	1
Hexachlorobenzene	<0.050		0.050	ug/L		02/02/26 07:46	02/04/26 08:50	1
Hexachlorocyclopentadiene	<0.050		0.050	ug/L		02/02/26 07:46	02/04/26 08:50	1
Indeno[1,2,3-cd]pyrene	<0.050		0.050	ug/L		02/02/26 07:46	02/04/26 08:50	1
Isophorone	<0.099		0.099	ug/L		02/02/26 07:46	02/04/26 08:50	1
Lindane	<0.0099		0.0099	ug/L		02/02/26 07:46	02/04/26 08:50	1
Malathion	<0.099		0.099	ug/L		02/02/26 07:46	02/04/26 08:50	1
Methoxychlor	<0.050		0.050	ug/L		02/02/26 07:46	02/04/26 08:50	1
Metolachlor	<0.050		0.050	ug/L		02/02/26 07:46	02/04/26 08:50	1
Molinate	<0.099		0.099	ug/L		02/02/26 07:46	02/04/26 08:50	1
Naphthalene	<0.099		0.099	ug/L		02/02/26 07:46	02/04/26 08:50	1
Parathion	<0.099		0.099	ug/L		02/02/26 07:46	02/04/26 08:50	1
Pendimethalin (Penoxaline)	<0.099		0.099	ug/L		02/02/26 07:46	02/04/26 08:50	1
Phenanthrene	<0.040		0.040	ug/L		02/02/26 07:46	02/04/26 08:50	1
Propachlor	<0.050		0.050	ug/L		02/02/26 07:46	02/04/26 08:50	1
Pyrene	<0.050		0.050	ug/L		02/02/26 07:46	02/04/26 08:50	1
Simazine	<0.050		0.050	ug/L		02/02/26 07:46	02/04/26 08:50	1
Terbacil	<0.099		0.099	ug/L		02/02/26 07:46	02/04/26 08:50	1
Terbutylazine	<0.099		0.099	ug/L		02/02/26 07:46	02/04/26 08:50	1
Thiobencarb	<0.099		0.099	ug/L		02/02/26 07:46	02/04/26 08:50	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		02/02/26 07:46	02/04/26 08:50	1
trans-Nonachlor	<0.050		0.050	ug/L		02/02/26 07:46	02/04/26 08:50	1
Trifluralin	<0.099		0.099	ug/L		02/02/26 07:46	02/04/26 08:50	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Undecane	2.49	T J N	ug/L		3.20	1120-21-4	02/02/26 07:46	02/04/26 08:50	1
Phenol, p-tert-butyl-	1.18	T J N	ug/L		3.94	98-54-4	02/02/26 07:46	02/04/26 08:50	1
Unknown	0.548	T J	ug/L		14.31	N/A	02/02/26 07:46	02/04/26 08:50	1
Unknown	1.52	T J	ug/L		15.12	N/A	02/02/26 07:46	02/04/26 08:50	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	101		70 - 130	02/02/26 07:46	02/04/26 08:50	1
Perylene-d12	94		70 - 130	02/02/26 07:46	02/04/26 08:50	1
Triphenylphosphate	104		70 - 130	02/02/26 07:46	02/04/26 08:50	1

**Lab Sample ID: LCS 380-202654/23-A**  
**Matrix: Water**  
**Analysis Batch: 203288**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 202654**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1-Methylnaphthalene	1.98	2.00		ug/L		101	70 - 130
2,4'-DDD	1.98	2.02		ug/L		102	70 - 130
2,4'-DDE	1.98	2.13		ug/L		108	70 - 130
2,4'-DDT	1.98	1.99		ug/L		100	70 - 130

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# QC Sample Results

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

Job ID: 380-195015-1  
SDG: Weekly: Moanalua Wells P1

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

**Lab Sample ID: LCS 380-202654/23-A**  
**Matrix: Water**  
**Analysis Batch: 203288**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 202654**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4-Dinitrotoluene	1.98	2.06		ug/L		104	70 - 130
2,6-Dinitrotoluene	1.98	2.02		ug/L		102	70 - 130
2-Methylnaphthalene	1.98	2.01		ug/L		101	70 - 130
4,4'-DDD	1.98	2.18		ug/L		110	70 - 130
4,4'-DDE	1.98	1.86		ug/L		94	70 - 130
4,4'-DDT	1.98	1.99		ug/L		101	70 - 130
Acenaphthene	1.98	1.99		ug/L		100	70 - 130
Acenaphthylene	1.98	2.11		ug/L		107	70 - 130
Acetochlor	1.98	2.11		ug/L		106	70 - 130
Alachlor	1.98	2.10		ug/L		106	70 - 130
alpha-BHC	1.98	1.98		ug/L		100	70 - 130
alpha-Chlordane	1.98	2.06		ug/L		104	70 - 130
Anthracene	1.98	1.87		ug/L		95	70 - 130
Atrazine	1.98	2.25		ug/L		114	70 - 130
Benz(a)anthracene	1.98	1.94		ug/L		98	70 - 130
Benzo[a]pyrene	1.98	2.19		ug/L		111	70 - 130
Benzo[b]fluoranthene	1.98	2.18		ug/L		110	70 - 130
Benzo[g,h,i]perylene	1.98	2.09		ug/L		106	70 - 130
Benzo[k]fluoranthene	1.98	2.14		ug/L		108	70 - 130
beta-BHC	1.98	2.00		ug/L		101	70 - 130
Bis(2-ethylhexyl) phthalate	1.98	2.22		ug/L		112	70 - 130
Bromacil	1.98	2.11		ug/L		107	70 - 130
Butachlor	1.98	2.20		ug/L		111	70 - 130
Butylbenzylphthalate	1.98	2.10		ug/L		106	70 - 130
Chlorobenzilate	1.98	2.27		ug/L		115	70 - 130
Chloroneb	1.98	2.08		ug/L		105	70 - 130
Chlorothalonil (Draconil, Bravo)	1.98	2.01		ug/L		101	70 - 130
Chlorpyrifos	1.98	2.04		ug/L		103	70 - 130
Chrysene	1.98	2.05		ug/L		103	70 - 130
delta-BHC	1.98	1.88		ug/L		95	70 - 130
Di(2-ethylhexyl)adipate	1.98	2.04		ug/L		103	70 - 130
Dibenz(a,h)anthracene	1.98	1.96		ug/L		99	70 - 130
Diclorvos (DDVP)	1.98	2.11		ug/L		107	70 - 130
Dieldrin	1.98	2.13		ug/L		108	70 - 130
Diethylphthalate	1.98	2.24		ug/L		113	70 - 130
Dimethylphthalate	1.98	2.08		ug/L		105	70 - 130
Di-n-butyl phthalate	3.96	4.59		ug/L		116	70 - 130
Di-n-octyl phthalate	1.98	1.98		ug/L		100	70 - 130
Endosulfan I (Alpha)	1.98	1.86		ug/L		94	70 - 130
Endosulfan II (Beta)	1.98	1.80		ug/L		91	70 - 130
Endosulfan sulfate	1.98	2.17		ug/L		109	70 - 130
Endrin	1.98	2.23		ug/L		113	70 - 130
Endrin aldehyde	1.98	1.89		ug/L		95	60 - 130
EPTC	1.98	2.08		ug/L		105	70 - 130
Fluoranthene	1.98	2.00		ug/L		101	70 - 130
Fluorene	1.98	1.94		ug/L		98	70 - 130
gamma-Chlordane	1.98	2.03		ug/L		103	70 - 130
Heptachlor	1.98	2.08		ug/L		105	70 - 130
Heptachlor epoxide (isomer B)	1.98	1.85		ug/L		93	70 - 130

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# QC Sample Results

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

Job ID: 380-195015-1  
SDG: Weekly: Moanalua Wells P1

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

**Lab Sample ID: LCS 380-202654/23-A**  
**Matrix: Water**  
**Analysis Batch: 203288**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 202654**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Hexachlorobenzene	1.98	1.92		ug/L		97	70 - 130
Hexachlorocyclopentadiene	1.98	2.15		ug/L		108	70 - 130
Indeno[1,2,3-cd]pyrene	1.98	2.03		ug/L		103	70 - 130
Isophorone	1.98	1.95		ug/L		98	70 - 130
Lindane	1.98	2.14		ug/L		108	70 - 130
Malathion	1.98	2.18		ug/L		110	70 - 130
Methoxychlor	1.98	2.16		ug/L		109	70 - 130
Metolachlor	1.98	2.08		ug/L		105	70 - 130
Molinate	1.98	2.14		ug/L		108	70 - 130
Naphthalene	1.98	2.00		ug/L		101	70 - 130
Parathion	1.98	2.15		ug/L		109	70 - 130
Pendimethalin (Penoxaline)	1.98	2.13		ug/L		107	70 - 130
Phenanthrene	1.98	1.95		ug/L		99	70 - 130
Propachlor	1.98	2.18		ug/L		110	70 - 130
Pyrene	1.98	2.02		ug/L		102	70 - 130
Simazine	1.98	2.08		ug/L		105	70 - 130
Terbacil	1.98	2.00		ug/L		101	70 - 130
Terbutylazine	1.98	2.29		ug/L		116	70 - 130
Thiobencarb	1.98	2.16		ug/L		109	70 - 130
trans-Nonachlor	1.98	1.99		ug/L		100	70 - 130
Trifluralin	1.98	2.05		ug/L		103	70 - 130

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

**Lab Sample ID: MRL 380-202654/22-A**  
**Matrix: Water**  
**Analysis Batch: 203288**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 202654**

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	0.0993	0.115		ug/L		115	50 - 150
2,4'-DDD	0.0993	0.102		ug/L		103	50 - 150
2,4'-DDE	0.0993	0.110		ug/L		111	50 - 150
2,4'-DDT	0.0993	0.118		ug/L		119	50 - 150
2,4-Dinitrotoluene	0.0993	0.117		ug/L		118	50 - 150
2,6-Dinitrotoluene	0.0993	0.108		ug/L		108	50 - 150
2-Methylnaphthalene	0.0993	0.105		ug/L		106	50 - 150
4,4'-DDD	0.0993	0.106		ug/L		107	50 - 150
4,4'-DDE	0.0993	0.100		ug/L		101	50 - 150
4,4'-DDT	0.0993	0.120		ug/L		120	50 - 150
Acenaphthene	0.0993	0.0905	J	ug/L		91	50 - 150
Acenaphthylene	0.0993	0.104		ug/L		105	50 - 150
Acetochlor	0.0993	0.118		ug/L		119	50 - 150
Alachlor	0.0497	0.0654		ug/L		132	50 - 150
alpha-BHC	0.0993	0.112		ug/L		113	50 - 150
alpha-Chlordane	0.0248	<0.029		ug/L		114	50 - 150

# QC Sample Results

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

Job ID: 380-195015-1  
SDG: Weekly: Moanalua Wells P1

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

**Lab Sample ID: MRL 380-202654/22-A**  
**Matrix: Water**  
**Analysis Batch: 203288**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 202654**

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Anthracene	0.0199	0.0206		ug/L		104	50 - 150
Atrazine	0.0497	0.0503		ug/L		101	50 - 150
Benz(a)anthracene	0.0497	0.0561		ug/L		113	50 - 150
Benzo[a]pyrene	0.0199	0.0279		ug/L		141	50 - 150
Benzo[b]fluoranthene	0.0199	0.0251		ug/L		126	50 - 150
Benzo[g,h,i]perylene	0.0497	0.0478	J	ug/L		96	50 - 150
Benzo[k]fluoranthene	0.0199	0.0245		ug/L		123	50 - 150
beta-BHC	0.0993	0.122		ug/L		122	50 - 150
Bis(2-ethylhexyl) phthalate	0.596	0.758		ug/L		127	50 - 150
Bromacil	0.0993	0.132		ug/L		132	50 - 150
Butachlor	0.0497	0.0659		ug/L		133	50 - 150
Butylbenzylphthalate	0.497	0.567		ug/L		114	50 - 150
Chlorobenzilate	0.0993	0.116		ug/L		116	50 - 150
Chloroneb	0.0993	0.104		ug/L		104	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0993	0.111		ug/L		112	50 - 150
Chlorpyrifos	0.0497	0.0535		ug/L		108	50 - 150
Chrysene	0.0199	0.0215		ug/L		108	50 - 150
delta-BHC	0.0993	0.107		ug/L		108	50 - 150
Di(2-ethylhexyl)adipate	0.596	0.667		ug/L		112	50 - 150
Dibenz(a,h)anthracene	0.0497	0.0566		ug/L		114	50 - 150
Diclorvos (DDVP)	0.0497	0.0557		ug/L		112	50 - 150
Dieldrin	0.00993	0.0119		ug/L		120	50 - 150
Diethylphthalate	0.497	0.589		ug/L		119	50 - 150
Dimethylphthalate	0.497	0.542		ug/L		109	50 - 150
Di-n-butyl phthalate	0.497	0.602	J	ug/L		121	49 - 243
Di-n-octyl phthalate	0.0993	0.112		ug/L		112	50 - 150
Endosulfan I (Alpha)	0.0993	0.113		ug/L		114	50 - 150
Endosulfan II (Beta)	0.0993	0.111		ug/L		112	50 - 150
Endosulfan sulfate	0.0993	0.107		ug/L		108	50 - 150
Endrin	0.00993	0.0107		ug/L		108	50 - 150
Endrin aldehyde	0.0993	0.105		ug/L		105	50 - 150
EPTC	0.0993	0.110		ug/L		111	50 - 150
Fluoranthene	0.0993	0.0991		ug/L		100	50 - 150
Fluorene	0.0497	0.0561		ug/L		113	50 - 150
gamma-Chlordane	0.0248	0.0259	J	ug/L		104	50 - 150
Heptachlor	0.00993	0.0122		ug/L		123	50 - 150
Heptachlor epoxide (isomer B)	0.00993	0.0108		ug/L		109	50 - 150
Hexachlorobenzene	0.0497	0.0500		ug/L		101	50 - 150
Hexachlorocyclopentadiene	0.0497	0.0564		ug/L		114	50 - 150
Indeno[1,2,3-cd]pyrene	0.0497	0.0590		ug/L		119	50 - 150
Isophorone	0.0993	0.122		ug/L		123	50 - 150
Lindane	0.00993	0.0131		ug/L		132	50 - 150
Malathion	0.0993	0.114		ug/L		114	50 - 150
Methoxychlor	0.0497	0.0566		ug/L		114	50 - 150
Metolachlor	0.0497	0.0624		ug/L		126	50 - 150
Molinate	0.0993	0.113		ug/L		114	50 - 150
Naphthalene	0.0993	0.108		ug/L		108	50 - 150
Parathion	0.0993	0.106		ug/L		107	50 - 150
Pendimethalin (Penoxaline)	0.0993	0.127		ug/L		128	50 - 150

Eurofins Pomona

# QC Sample Results

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

Job ID: 380-195015-1  
SDG: Weekly: Moanalua Wells P1

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

**Lab Sample ID: MRL 380-202654/22-A**  
**Matrix: Water**  
**Analysis Batch: 203288**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 202654**

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Phenanthrene	0.0397	0.0366	J	ug/L		92	50 - 150
Propachlor	0.0497	0.0621		ug/L		125	50 - 150
Pyrene	0.0497	0.0505		ug/L		102	50 - 150
Simazine	0.0497	0.0501		ug/L		101	50 - 150
Terbacil	0.0993	0.128		ug/L		129	50 - 150
Terbutylazine	0.0993	0.107		ug/L		108	50 - 150
Thiobencarb	0.0993	0.115		ug/L		116	50 - 150
trans-Nonachlor	0.0248	<0.026		ug/L		96	50 - 150
Trifluralin	0.0993	0.116		ug/L		116	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
2-Nitro-m-xylene	102		70 - 130
Perylene-d12	96		70 - 130
Triphenylphosphate	104		70 - 130

**Lab Sample ID: 380-195033-B-1-A MS**  
**Matrix: Water**  
**Analysis Batch: 203288**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 202654**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.097		1.94	1.96		ug/L		101	70 - 130
2,4'-DDD	<0.097		1.94	2.08		ug/L		107	70 - 130
2,4'-DDE	<0.097		1.94	2.18		ug/L		112	70 - 130
2,4'-DDT	<0.097		1.94	2.10		ug/L		108	70 - 130
2,4-Dinitrotoluene	<0.097		1.94	2.15		ug/L		111	70 - 130
2,6-Dinitrotoluene	<0.097		1.94	2.09		ug/L		108	70 - 130
2-Methylnaphthalene	<0.097		1.94	1.96		ug/L		101	70 - 130
4,4'-DDD	<0.097		1.94	2.24		ug/L		115	70 - 130
4,4'-DDE	<0.097		1.94	1.92		ug/L		99	70 - 130
4,4'-DDT	<0.097		1.94	2.11		ug/L		109	70 - 130
Acenaphthene	<0.097		1.94	1.90		ug/L		98	70 - 130
Acenaphthylene	<0.097		1.94	2.03		ug/L		104	70 - 130
Acetochlor	<0.097		1.94	2.16		ug/L		111	70 - 130
Alachlor	<0.048		1.94	2.14		ug/L		110	70 - 130
alpha-BHC	<0.097		1.94	1.93		ug/L		99	70 - 130
alpha-Chlordane	<0.048		1.94	2.14		ug/L		110	70 - 130
Anthracene	<0.019		1.94	1.57		ug/L		81	70 - 130
Atrazine	<0.048		1.94	2.27		ug/L		117	70 - 130
Benz(a)anthracene	<0.048		1.94	1.86		ug/L		96	70 - 130
Benzo[a]pyrene	<0.019		1.94	2.09		ug/L		107	70 - 130
Benzo[b]fluoranthene	<0.019		1.94	2.08		ug/L		107	70 - 130
Benzo[g,h,i]perylene	<0.048		1.94	2.04		ug/L		105	70 - 130
Benzo[k]fluoranthene	<0.019		1.94	2.11		ug/L		109	70 - 130
beta-BHC	<0.097		1.94	1.98		ug/L		102	70 - 130
Bis(2-ethylhexyl) phthalate	<0.58		1.94	2.51		ug/L		129	70 - 130
Bromacil	<0.097		1.94	2.04		ug/L		105	70 - 130
Butachlor	<0.048		1.94	2.26		ug/L		116	70 - 130
Butylbenzylphthalate	<0.48		1.94	2.15		ug/L		111	70 - 130

# QC Sample Results

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

Job ID: 380-195015-1  
 SDG: Weekly: Moanalua Wells P1

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

**Lab Sample ID: 380-195033-B-1-A MS**  
**Matrix: Water**  
**Analysis Batch: 203288**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 202654**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chlorobenzilate	<0.097		1.94	2.35		ug/L		121	70 - 130
Chloroneb	<0.097		1.94	2.05		ug/L		106	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.097		1.94	1.98		ug/L		102	70 - 130
Chlorpyrifos	<0.048		1.94	2.06		ug/L		106	70 - 130
Chrysene	<0.019		1.94	1.92		ug/L		99	70 - 130
delta-BHC	<0.097		1.94	1.88		ug/L		97	70 - 130
Di(2-ethylhexyl)adipate	<0.58		1.94	2.24		ug/L		115	70 - 130
Dibenz(a,h)anthracene	<0.048		1.94	1.98		ug/L		102	70 - 130
Diclorvos (DDVP)	<0.048		1.94	2.09		ug/L		108	70 - 130
Dieldrin	<0.0097		1.94	2.17		ug/L		112	70 - 130
Diethylphthalate	<0.48		1.94	2.24		ug/L		115	70 - 130
Dimethylphthalate	<0.48		1.94	2.07		ug/L		106	70 - 130
Di-n-butyl phthalate	<0.97		3.89	4.55		ug/L		117	70 - 130
Di-n-octyl phthalate	<0.097		1.94	2.18		ug/L		112	70 - 130
Endosulfan I (Alpha)	<0.097		1.94	1.95		ug/L		100	70 - 130
Endosulfan II (Beta)	<0.097		1.94	1.85		ug/L		95	70 - 130
Endosulfan sulfate	<0.097		1.94	2.27		ug/L		117	70 - 130
Endrin	<0.0097		1.94	2.26		ug/L		116	70 - 130
Endrin aldehyde	<0.097		1.94	1.49		ug/L		77	60 - 130
EPTC	<0.097		1.94	2.09		ug/L		108	70 - 130
Fluoranthene	<0.097		1.94	1.98		ug/L		102	70 - 130
Fluorene	<0.048		1.94	1.89		ug/L		97	70 - 130
gamma-Chlordane	<0.048		1.94	2.12		ug/L		109	70 - 130
Heptachlor	<0.0097		1.94	2.09		ug/L		108	70 - 130
Heptachlor epoxide (isomer B)	<0.0097		1.94	1.89		ug/L		97	70 - 130
Hexachlorobenzene	<0.048		1.94	1.89		ug/L		97	70 - 130
Hexachlorocyclopentadiene	<0.048		1.94	2.14		ug/L		110	70 - 130
Indeno[1,2,3-cd]pyrene	<0.048		1.94	2.01		ug/L		103	70 - 130
Isophorone	<0.097		1.94	1.94		ug/L		100	70 - 130
Lindane	<0.0097		1.94	2.10		ug/L		108	70 - 130
Malathion	<0.097		1.94	2.22		ug/L		114	70 - 130
Methoxychlor	<0.048		1.94	2.26		ug/L		116	70 - 130
Metolachlor	<0.048		1.94	2.13		ug/L		109	70 - 130
Molinate	<0.097		1.94	2.15		ug/L		110	70 - 130
Naphthalene	<0.097		1.94	1.97		ug/L		102	70 - 130
Parathion	<0.097		1.94	2.24		ug/L		115	70 - 130
Pendimethalin (Penoxaline)	<0.097		1.94	2.29		ug/L		118	70 - 130
Phenanthrene	<0.039		1.94	1.92		ug/L		99	70 - 130
Propachlor	<0.048		1.94	2.24		ug/L		115	70 - 130
Pyrene	<0.048		1.94	1.98		ug/L		102	70 - 130
Simazine	<0.048		1.94	2.12		ug/L		109	70 - 130
Terbacil	<0.097		1.94	2.07		ug/L		107	70 - 130
Terbutylazine	<0.097		1.94	2.34		ug/L		121	70 - 130
Thiobencarb	<0.097		1.94	2.20		ug/L		113	70 - 130
trans-Nonachlor	<0.048		1.94	2.11		ug/L		108	70 - 130
Trifluralin	<0.097		1.94	2.17		ug/L		111	70 - 130

# QC Sample Results

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

Job ID: 380-195015-1  
SDG: Weekly: Moanalua Wells P1

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

**Lab Sample ID: 380-195033-B-1-A MS**  
**Matrix: Water**  
**Analysis Batch: 203288**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 202654**

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

**Lab Sample ID: 380-195033-C-1-A MSD**  
**Matrix: Water**  
**Analysis Batch: 203288**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 202654**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	%Rec	%Rec		RPD	Limit
				Result	Qualifier				Limits	RPD		
1-Methylnaphthalene	<0.097		1.95	1.94		ug/L		99	70 - 130	1	20	
2,4'-DDD	<0.097		1.95	2.05		ug/L		105	70 - 130	2	20	
2,4'-DDE	<0.097		1.95	2.15		ug/L		110	70 - 130	2	20	
2,4'-DDT	<0.097		1.95	2.06		ug/L		106	70 - 130	2	20	
2,4-Dinitrotoluene	<0.097		1.95	2.07		ug/L		106	70 - 130	4	20	
2,6-Dinitrotoluene	<0.097		1.95	2.01		ug/L		103	70 - 130	4	20	
2-Methylnaphthalene	<0.097		1.95	1.92		ug/L		99	70 - 130	2	20	
4,4'-DDD	<0.097		1.95	2.23		ug/L		114	70 - 130	1	20	
4,4'-DDE	<0.097		1.95	1.91		ug/L		98	70 - 130	0	20	
4,4'-DDT	<0.097		1.95	2.12		ug/L		109	70 - 130	0	20	
Acenaphthene	<0.097		1.95	1.89		ug/L		97	70 - 130	0	20	
Acenaphthylene	<0.097		1.95	2.05		ug/L		105	70 - 130	1	20	
Acetochlor	<0.097		1.95	2.16		ug/L		111	70 - 130	0	20	
Alachlor	<0.048		1.95	2.11		ug/L		108	70 - 130	2	20	
alpha-BHC	<0.097		1.95	1.95		ug/L		100	70 - 130	1	20	
alpha-Chlordane	<0.048		1.95	2.08		ug/L		107	70 - 130	3	20	
Anthracene	<0.019		1.95	1.66		ug/L		85	70 - 130	6	20	
Atrazine	<0.048		1.95	2.22		ug/L		114	70 - 130	2	20	
Benz(a)anthracene	<0.048		1.95	1.98		ug/L		102	70 - 130	6	20	
Benzo[a]pyrene	<0.019		1.95	2.20		ug/L		113	70 - 130	5	20	
Benzo[b]fluoranthene	<0.019		1.95	2.20		ug/L		113	70 - 130	6	20	
Benzo[g,h,i]perylene	<0.048		1.95	2.14		ug/L		110	70 - 130	5	20	
Benzo[k]fluoranthene	<0.019		1.95	2.15		ug/L		110	70 - 130	2	20	
beta-BHC	<0.097		1.95	1.97		ug/L		101	70 - 130	1	20	
Bis(2-ethylhexyl) phthalate	<0.58		1.95	2.39		ug/L		123	70 - 130	5	20	
Bromacil	<0.097		1.95	1.97		ug/L		101	70 - 130	4	20	
Butachlor	<0.048		1.95	2.23		ug/L		114	70 - 130	1	20	
Butylbenzylphthalate	<0.48		1.95	2.15		ug/L		110	70 - 130	0	20	
Chlorobenzilate	<0.097		1.95	2.30		ug/L		118	70 - 130	2	20	
Chloroneb	<0.097		1.95	1.98		ug/L		102	70 - 130	3	20	
Chlorothalonil (Draconil, Bravo)	<0.097		1.95	2.04		ug/L		105	70 - 130	3	20	
Chlorpyrifos	<0.048		1.95	2.07		ug/L		106	70 - 130	0	20	
Chrysene	<0.019		1.95	2.03		ug/L		104	70 - 130	5	20	
delta-BHC	<0.097		1.95	1.82		ug/L		94	70 - 130	3	20	
Di(2-ethylhexyl)adipate	<0.58		1.95	2.18		ug/L		112	70 - 130	3	20	
Dibenz(a,h)anthracene	<0.048		1.95	2.05		ug/L		105	70 - 130	3	20	
Diclorvos (DDVP)	<0.048		1.95	2.06		ug/L		106	70 - 130	2	20	
Dieldrin	<0.0097		1.95	2.15		ug/L		110	70 - 130	1	20	
Diethylphthalate	<0.48		1.95	2.17		ug/L		111	70 - 130	3	20	

# QC Sample Results

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

Job ID: 380-195015-1  
SDG: Weekly: Moanalua Wells P1

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

**Lab Sample ID: 380-195033-C-1-A MSD**

**Client Sample ID: Matrix Spike Duplicate**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 203288**

**Prep Batch: 202654**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		
Dimethylphthalate	<0.48		1.95	2.00		ug/L		103	70 - 130	3	20
Di-n-butyl phthalate	<0.97		3.90	4.47		ug/L		115	70 - 130	2	20
Di-n-octyl phthalate	<0.097		1.95	2.12		ug/L		109	70 - 130	2	20
Endosulfan I (Alpha)	<0.097		1.95	1.87		ug/L		96	70 - 130	4	20
Endosulfan II (Beta)	<0.097		1.95	1.81		ug/L		93	70 - 130	2	20
Endosulfan sulfate	<0.097		1.95	2.18		ug/L		112	70 - 130	4	20
Endrin	<0.0097		1.95	2.26		ug/L		116	70 - 130	0	20
Endrin aldehyde	<0.097		1.95	1.48		ug/L		76	60 - 130	1	20
EPTC	<0.097		1.95	2.02		ug/L		104	70 - 130	3	20
Fluoranthene	<0.097		1.95	2.04		ug/L		105	70 - 130	3	20
Fluorene	<0.048		1.95	1.88		ug/L		96	70 - 130	1	20
gamma-Chlordane	<0.048		1.95	2.06		ug/L		106	70 - 130	3	20
Heptachlor	<0.0097		1.95	2.10		ug/L		108	70 - 130	0	20
Heptachlor epoxide (isomer B)	<0.0097		1.95	1.88		ug/L		96	70 - 130	1	20
Hexachlorobenzene	<0.048		1.95	1.87		ug/L		96	70 - 130	1	20
Hexachlorocyclopentadiene	<0.048		1.95	2.17		ug/L		111	70 - 130	1	20
Indeno[1,2,3-cd]pyrene	<0.048		1.95	2.15		ug/L		111	70 - 130	7	20
Isophorone	<0.097		1.95	1.89		ug/L		97	70 - 130	2	20
Lindane	<0.0097		1.95	2.08		ug/L		107	70 - 130	1	20
Malathion	<0.097		1.95	2.21		ug/L		114	70 - 130	0	20
Methoxychlor	<0.048		1.95	2.23		ug/L		114	70 - 130	1	20
Metolachlor	<0.048		1.95	2.07		ug/L		106	70 - 130	3	20
Molinate	<0.097		1.95	2.09		ug/L		107	70 - 130	3	20
Naphthalene	<0.097		1.95	1.97		ug/L		101	70 - 130	0	20
Parathion	<0.097		1.95	2.25		ug/L		115	70 - 130	1	20
Pendimethalin (Penoxaline)	<0.097		1.95	2.28		ug/L		117	70 - 130	1	20
Phenanthrene	<0.039		1.95	1.94		ug/L		99	70 - 130	1	20
Propachlor	<0.048		1.95	2.18		ug/L		112	70 - 130	2	20
Pyrene	<0.048		1.95	2.04		ug/L		105	70 - 130	3	20
Simazine	<0.048		1.95	2.07		ug/L		106	70 - 130	3	20
Terbacil	<0.097		1.95	1.83		ug/L		94	70 - 130	13	20
Terbutylazine	<0.097		1.95	2.27		ug/L		116	70 - 130	3	20
Thiobencarb	<0.097		1.95	2.17		ug/L		111	70 - 130	1	20
trans-Nonachlor	<0.048		1.95	2.10		ug/L		108	70 - 130	1	20
Trifluralin	<0.097		1.95	2.11		ug/L		108	70 - 130	3	20
		<b>MSD</b>	<b>MSD</b>								
<b>Surrogate</b>		<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>							
2-Nitro-m-xylene		99		70 - 130							
Perylene-d12		101		70 - 130							
Triphenylphosphate		109		70 - 130							

# QC Sample Results

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

Job ID: 380-195015-1  
SDG: Weekly: Moanalua Wells P1

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

**Lab Sample ID: MB 570-689280/1-A**  
**Matrix: Water**  
**Analysis Batch: 691696**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 689280**

<i>Tentatively Identified Compound</i>	<i>MB</i>	<i>MB</i>	<i>Unit</i>	<i>D</i>	<i>RT</i>	<i>CAS No.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Tentatively Identified Compound</i>	None		ug/L			N/A	01/30/26 12:01	02/05/26 08:34	1

<i>Surrogate</i>	<i>MB</i>	<i>MB</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
	<i>%Recovery</i>	<i>Qualifier</i>				
<i>2,4,6-Tribromophenol (Surr)</i>	75		33 - 139	01/30/26 12:01	02/05/26 08:34	1
<i>2-Fluorobiphenyl (Surr)</i>	78		33 - 126	01/30/26 12:01	02/05/26 08:34	1
<i>2-Fluorophenol (Surr)</i>	58		12 - 120	01/30/26 12:01	02/05/26 08:34	1
<i>Nitrobenzene-d5 (Surr)</i>	72		36 - 120	01/30/26 12:01	02/05/26 08:34	1
<i>Phenol-d6 (Surr)</i>	30		10 - 120	01/30/26 12:01	02/05/26 08:34	1
<i>p-Terphenyl-d14 (Surr)</i>	84		47 - 131	01/30/26 12:01	02/05/26 08:34	1

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

**Lab Sample ID: MB 570-689280/1-A**  
**Matrix: Water**  
**Analysis Batch: 691132**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 689280**

<i>Analyte</i>	<i>MB</i>	<i>MB</i>	<i>RL</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
	<i>Result</i>	<i>Qualifier</i>						
1-Methylnaphthalene	<0.20		0.20	ug/L		01/30/26 12:01	02/04/26 07:57	1
2-Methylnaphthalene	<0.20		0.20	ug/L		01/30/26 12:01	02/04/26 07:57	1
Acenaphthene	<0.20		0.20	ug/L		01/30/26 12:01	02/04/26 07:57	1
Acenaphthylene	<0.20		0.20	ug/L		01/30/26 12:01	02/04/26 07:57	1
Anthracene	<0.20		0.20	ug/L		01/30/26 12:01	02/04/26 07:57	1
Benzo[a]anthracene	<0.20		0.20	ug/L		01/30/26 12:01	02/04/26 07:57	1
Benzo[a]pyrene	<0.20		0.20	ug/L		01/30/26 12:01	02/04/26 07:57	1
Benzo[b]fluoranthene	<0.20		0.20	ug/L		01/30/26 12:01	02/04/26 07:57	1
Benzo[g,h,i]perylene	<0.20		0.20	ug/L		01/30/26 12:01	02/04/26 07:57	1
Benzo[k]fluoranthene	<0.20		0.20	ug/L		01/30/26 12:01	02/04/26 07:57	1
Chrysene	<0.20		0.20	ug/L		01/30/26 12:01	02/04/26 07:57	1
Dibenz(a,h)anthracene	<0.20		0.20	ug/L		01/30/26 12:01	02/04/26 07:57	1
Fluoranthene	<0.20		0.20	ug/L		01/30/26 12:01	02/04/26 07:57	1
Fluorene	<0.20		0.20	ug/L		01/30/26 12:01	02/04/26 07:57	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20	ug/L		01/30/26 12:01	02/04/26 07:57	1
Naphthalene	<0.20		0.20	ug/L		01/30/26 12:01	02/04/26 07:57	1
Phenanthrene	<0.20		0.20	ug/L		01/30/26 12:01	02/04/26 07:57	1
Pyrene	<0.20		0.20	ug/L		01/30/26 12:01	02/04/26 07:57	1

<i>Surrogate</i>	<i>MB</i>	<i>MB</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
	<i>%Recovery</i>	<i>Qualifier</i>				
<i>2,4,6-Tribromophenol (Surr)</i>	85		28 - 127	01/30/26 12:01	02/04/26 07:57	1
<i>2-Fluorobiphenyl (Surr)</i>	73		31 - 120	01/30/26 12:01	02/04/26 07:57	1
<i>2-Fluorophenol (Surr)</i>	48		17 - 120	01/30/26 12:01	02/04/26 07:57	1
<i>Nitrobenzene-d5 (Surr)</i>	77		27 - 120	01/30/26 12:01	02/04/26 07:57	1
<i>Phenol-d6 (Surr)</i>	32		10 - 120	01/30/26 12:01	02/04/26 07:57	1
<i>p-Terphenyl-d14 (Surr)</i>	74		45 - 120	01/30/26 12:01	02/04/26 07:57	1

# QC Sample Results

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

Job ID: 380-195015-1  
SDG: Weekly: Moanalua Wells P1

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

**Lab Sample ID: LCS 570-689280/2-A**  
**Matrix: Water**  
**Analysis Batch: 691132**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 689280**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	20.0	18.7		ug/L		93	47 - 120
2-Methylnaphthalene	20.0	18.0		ug/L		90	43 - 120
Acenaphthene	20.0	18.1		ug/L		91	60 - 132
Acenaphthylene	20.0	18.5		ug/L		93	54 - 126
Anthracene	20.0	18.0		ug/L		90	43 - 120
Benzo[a]anthracene	20.0	18.8		ug/L		94	42 - 133
Benzo[a]pyrene	20.0	19.2		ug/L		96	32 - 148
Benzo[b]fluoranthene	20.0	19.0		ug/L		95	42 - 140
Benzo[g,h,i]perylene	20.0	17.3		ug/L		87	1 - 195
Benzo[k]fluoranthene	20.0	18.2		ug/L		91	25 - 146
Chrysene	20.0	18.2		ug/L		91	44 - 140
Dibenz(a,h)anthracene	20.0	18.2		ug/L		91	1 - 200
Fluoranthene	20.0	18.6		ug/L		93	43 - 121
Fluorene	20.0	18.3		ug/L		92	70 - 120
Indeno[1,2,3-cd]pyrene	20.0	18.2		ug/L		91	1 - 151
Naphthalene	20.0	18.0		ug/L		90	36 - 120
Phenanthrene	20.0	17.9		ug/L		89	65 - 120
Pyrene	20.0	19.5		ug/L		98	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	98		28 - 127
2-Fluorobiphenyl (Surr)	87		31 - 120
2-Fluorophenol (Surr)	63		17 - 120
Nitrobenzene-d5 (Surr)	91		27 - 120
Phenol-d6 (Surr)	44		10 - 120
p-Terphenyl-d14 (Surr)	94		45 - 120

**Lab Sample ID: LCSD 570-689280/3-A**  
**Matrix: Water**  
**Analysis Batch: 691132**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 689280**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	20.0	16.7		ug/L		83	47 - 120	11	20
2-Methylnaphthalene	20.0	16.5		ug/L		83	43 - 120	8	20
Acenaphthene	20.0	16.0		ug/L		80	60 - 132	12	29
Acenaphthylene	20.0	16.5		ug/L		83	54 - 126	11	45
Anthracene	20.0	16.3		ug/L		81	43 - 120	10	40
Benzo[a]anthracene	20.0	16.9		ug/L		85	42 - 133	10	32
Benzo[a]pyrene	20.0	17.0		ug/L		85	32 - 148	12	43
Benzo[b]fluoranthene	20.0	16.7		ug/L		84	42 - 140	13	43
Benzo[g,h,i]perylene	20.0	15.7		ug/L		79	1 - 195	9	61
Benzo[k]fluoranthene	20.0	16.8		ug/L		84	25 - 146	8	38
Chrysene	20.0	16.7		ug/L		83	44 - 140	9	53
Dibenz(a,h)anthracene	20.0	16.7		ug/L		83	1 - 200	9	75
Fluoranthene	20.0	16.8		ug/L		84	43 - 121	10	40
Fluorene	20.0	16.4		ug/L		82	70 - 120	11	23
Indeno[1,2,3-cd]pyrene	20.0	16.5		ug/L		83	1 - 151	10	60
Naphthalene	20.0	16.1		ug/L		80	36 - 120	11	39

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# QC Sample Results

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

Job ID: 380-195015-1  
SDG: Weekly: Moanalua Wells P1

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

**Lab Sample ID: LCSD 570-689280/3-A**  
**Matrix: Water**  
**Analysis Batch: 691132**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 689280**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenanthrene	20.0	16.1		ug/L		80	65 - 120	10	24
Pyrene	20.0	17.7		ug/L		89	70 - 120	10	30
<b>Surrogate</b>									
	%Recovery	LCSD Qualifier	LCSD Limits						
2,4,6-Tribromophenol (Surr)	81		28 - 127						
2-Fluorobiphenyl (Surr)	76		31 - 120						
2-Fluorophenol (Surr)	57		17 - 120						
Nitrobenzene-d5 (Surr)	80		27 - 120						
Phenol-d6 (Surr)	39		10 - 120						
p-Terphenyl-d14 (Surr)	84		45 - 120						

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

**Lab Sample ID: MB 570-691227/6**  
**Matrix: Water**  
**Analysis Batch: 691227**

**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			02/04/26 12:30	1
<b>Surrogate</b>								
	%Recovery	MB Qualifier	MB Limits					
4-Bromofluorobenzene (Surr)	84		38 - 134				02/04/26 12:30	1

**Lab Sample ID: LCS 570-691227/4**  
**Matrix: Water**  
**Analysis Batch: 691227**

**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	350		ug/L		87	78 - 120		
<b>Surrogate</b>									
	%Recovery	LCS Qualifier	LCS Limits						
4-Bromofluorobenzene (Surr)	77		38 - 134						

**Lab Sample ID: LCSD 570-691227/5**  
**Matrix: Water**  
**Analysis Batch: 691227**

**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	362		ug/L		91	78 - 120	3	10
<b>Surrogate</b>									
	%Recovery	LCSD Qualifier	LCSD Limits						
4-Bromofluorobenzene (Surr)	83		38 - 134						

# QC Sample Results

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

Job ID: 380-195015-1  
SDG: Weekly: Moanalua Wells P1

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

**Lab Sample ID: MRL 570-691227/7**  
**Matrix: Water**  
**Analysis Batch: 691227**

**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	<7.9		ug/L		66	50 - 150
<b>Surrogate</b>		<b>MRL %Recovery</b>	<b>MRL Qualifier</b>				<b>Limits</b>
4-Bromofluorobenzene (Surr)		80					38 - 134

**Lab Sample ID: 380-195023-B-1 MS**  
**Matrix: Water**  
**Analysis Batch: 691227**

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (C4-C13)	<10		400	410		ug/L		103	68 - 122
<b>Surrogate</b>		<b>MS %Recovery</b>		<b>MS Qualifier</b>					<b>Limits</b>
4-Bromofluorobenzene (Surr)		94							38 - 134

**Lab Sample ID: 380-195023-C-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 691227**

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (C4-C13)	<10		400	426		ug/L		107	68 - 122	4	18
<b>Surrogate</b>		<b>MSD %Recovery</b>		<b>MSD Qualifier</b>					<b>Limits</b>		
4-Bromofluorobenzene (Surr)		93							38 - 134		

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

**Lab Sample ID: MB 570-689963/1-A**  
**Matrix: Water**  
**Analysis Batch: 692930**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 689963**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<25		25	ug/L		02/02/26 09:35	02/06/26 14:57	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		02/02/26 09:35	02/06/26 14:57	1
C8-C18	<25		25	ug/L		02/02/26 09:35	02/06/26 14:57	1
<b>Surrogate</b>		<b>MB %Recovery</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
n-Octacosane (Surr)		105				02/02/26 09:35	02/06/26 14:57	1

**Lab Sample ID: LCS 570-689963/2-A**  
**Matrix: Water**  
**Analysis Batch: 692930**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 689963**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
C10-C28	1600	1400		ug/L		88	56 - 127

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# QC Sample Results

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

Job ID: 380-195015-1  
SDG: Weekly: Moanalua Wells P1

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

**Lab Sample ID: LCS 570-689963/2-A**  
**Matrix: Water**  
**Analysis Batch: 692930**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 689963**

	LCS	LCS	
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>n-Octacosane (Surr)</i>	99		60 - 130

**Lab Sample ID: LCSD 570-689963/3-A**  
**Matrix: Water**  
**Analysis Batch: 692930**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 689963**

	Spike	LCSD	LCSD							
<i>Analyte</i>	<i>Added</i>	<i>Result</i>	<i>Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec</i>	<i>Limits</i>	<i>RPD</i>	<i>Limit</i>
C10-C28	1600	1470		ug/L		92	56 - 127	5		23

	LCSD	LCSD	
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>n-Octacosane (Surr)</i>	105		60 - 130

**Lab Sample ID: MRL 570-689963/4-A**  
**Matrix: Water**  
**Analysis Batch: 692930**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 689963**

	Spike	MRL	MRL						
<i>Analyte</i>	<i>Added</i>	<i>Result</i>	<i>Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec</i>	<i>Limits</i>	<i>Limits</i>
C10-C28	0.0200	<0.020		mg/L		96	50 - 150		

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

**Lab Sample ID: 380-194998-C-1-A MS**  
**Matrix: Water**  
**Analysis Batch: 692930**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 689963**

	Sample	Sample	Spike	MS	MS					
<i>Analyte</i>	<i>Result</i>	<i>Qualifier</i>	<i>Added</i>	<i>Result</i>	<i>Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec</i>	<i>Limits</i>
C10-C28	<26		1640	1720		ug/L		105	70 - 130	

	MS	MS	
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>n-Octacosane (Surr)</i>	111		60 - 130

**Lab Sample ID: 380-194998-D-1-A MSD**  
**Matrix: Water**  
**Analysis Batch: 692930**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 689963**

	Sample	Sample	Spike	MSD	MSD					
<i>Analyte</i>	<i>Result</i>	<i>Qualifier</i>	<i>Added</i>	<i>Result</i>	<i>Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec</i>	<i>Limits</i>
C10-C28	<26		1650	1530		ug/L		93	70 - 130	12 20

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

# QC Sample Results

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

Job ID: 380-195015-1  
 SDG: Weekly: Moanalua Wells P1

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

**Lab Sample ID: 380-195023-B-1-A MSD**  
**Matrix: Water**  
**Analysis Batch: 692930**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 689963**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
C10-C28	<26		1640	1500		ug/L		92	70 - 130	4	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD Qualifier</b>	<b>MSD Limits</b>								
<i>n-Octacosane (Surr)</i>	95		60 - 130								

**Lab Sample ID: 380-195023-C-1-A MS**  
**Matrix: Water**  
**Analysis Batch: 692930**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 689963**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
C10-C28	<26		1610	1570		ug/L		98	70 - 130		
<b>Surrogate</b>	<b>%Recovery</b>	<b>MS Qualifier</b>	<b>MS Limits</b>								
<i>n-Octacosane (Surr)</i>	102		60 - 130								

**Lab Sample ID: 380-195033-B-1-B MS**  
**Matrix: Water**  
**Analysis Batch: 692930**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 689963**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
C10-C28	<26		1670	1630		ug/L		97	70 - 130		
<b>Surrogate</b>	<b>%Recovery</b>	<b>MS Qualifier</b>	<b>MS Limits</b>								
<i>n-Octacosane (Surr)</i>	103		60 - 130								

**Lab Sample ID: 380-195033-B-1-C MSD**  
**Matrix: Water**  
**Analysis Batch: 692930**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 689963**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
C10-C28	<26		1650	1620		ug/L		98	70 - 130	0	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD Qualifier</b>	<b>MSD Limits</b>								
<i>n-Octacosane (Surr)</i>	105		60 - 130								

# QC Association Summary

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

Job ID: 380-195015-1  
SDG: Weekly: Moanalua Wells P1

## GC/MS Semi VOA

### Prep Batch: 202654

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-195015-1	MOANALUA WELLS P1	Total/NA	Water	525.2	
MB 380-202654/21-A	Method Blank	Total/NA	Water	525.2	
LCS 380-202654/23-A	Lab Control Sample	Total/NA	Water	525.2	
MRL 380-202654/22-A	Lab Control Sample	Total/NA	Water	525.2	
380-195033-B-1-A MS	Matrix Spike	Total/NA	Water	525.2	
380-195033-C-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	525.2	

### Analysis Batch: 203288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-195015-1	MOANALUA WELLS P1	Total/NA	Water	525.2	202654
MB 380-202654/21-A	Method Blank	Total/NA	Water	525.2	202654
LCS 380-202654/23-A	Lab Control Sample	Total/NA	Water	525.2	202654
MRL 380-202654/22-A	Lab Control Sample	Total/NA	Water	525.2	202654
380-195033-B-1-A MS	Matrix Spike	Total/NA	Water	525.2	202654
380-195033-C-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	525.2	202654

### Prep Batch: 689280

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-195015-1	MOANALUA WELLS P1	Total/NA	Water	625.1	
MB 570-689280/1-A	Method Blank	Total/NA	Water	625.1	
LCS 570-689280/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 570-689280/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	

### Analysis Batch: 691132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-195015-1	MOANALUA WELLS P1	Total/NA	Water	625.1 SIM	689280
MB 570-689280/1-A	Method Blank	Total/NA	Water	625.1 SIM	689280
LCS 570-689280/2-A	Lab Control Sample	Total/NA	Water	625.1 SIM	689280
LCSD 570-689280/3-A	Lab Control Sample Dup	Total/NA	Water	625.1 SIM	689280

### Analysis Batch: 691696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-195015-1	MOANALUA WELLS P1	Total/NA	Water	625.1	689280
MB 570-689280/1-A	Method Blank	Total/NA	Water	625.1	689280

## GC VOA

### Analysis Batch: 691227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-195015-1	MOANALUA WELLS P1	Total/NA	Water	8015B GRO LL	
380-195015-2	TB: MOANALUA WELLS P1	Total/NA	Water	8015B GRO LL	
MB 570-691227/6	Method Blank	Total/NA	Water	8015B GRO LL	
LCS 570-691227/4	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-691227/5	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	
MRL 570-691227/7	Lab Control Sample	Total/NA	Water	8015B GRO LL	
380-195023-B-1 MS	Matrix Spike	Total/NA	Water	8015B GRO LL	
380-195023-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8015B GRO LL	

# QC Association Summary

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

Job ID: 380-195015-1  
 SDG: Weekly: Moanalua Wells P1

## GC Semi VOA

### Prep Batch: 689963

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-195015-1	MOANALUA WELLS P1	Total/NA	Water	3510C	
MB 570-689963/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-689963/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-689963/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-689963/4-A	Lab Control Sample	Total/NA	Water	3510C	
380-194998-C-1-A MS	Matrix Spike	Total/NA	Water	3510C	
380-194998-D-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	
380-195023-B-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	
380-195023-C-1-A MS	Matrix Spike	Total/NA	Water	3510C	
380-195033-B-1-B MS	Matrix Spike	Total/NA	Water	3510C	
380-195033-B-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

### Analysis Batch: 692930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-195015-1	MOANALUA WELLS P1	Total/NA	Water	8015B	689963
MB 570-689963/1-A	Method Blank	Total/NA	Water	8015B	689963
LCS 570-689963/2-A	Lab Control Sample	Total/NA	Water	8015B	689963
LCSD 570-689963/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	689963
MRL 570-689963/4-A	Lab Control Sample	Total/NA	Water	8015B	689963
380-194998-C-1-A MS	Matrix Spike	Total/NA	Water	8015B	689963
380-194998-D-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	8015B	689963
380-195023-B-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	8015B	689963
380-195023-C-1-A MS	Matrix Spike	Total/NA	Water	8015B	689963
380-195033-B-1-B MS	Matrix Spike	Total/NA	Water	8015B	689963
380-195033-B-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	8015B	689963

# Lab Chronicle

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

Job ID: 380-195015-1  
SDG: Weekly: Moanalua Wells P1

## Client Sample ID: MOANALUA WELLS P1

## Lab Sample ID: 380-195015-1

Date Collected: 01/26/26 10:08

Matrix: Water

Date Received: 01/29/26 09:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			202654	OTM3	EA POM	02/02/26 07:46
Total/NA	Analysis	525.2		1	203288	UPAC	EA POM	02/04/26 15:45
Total/NA	Prep	625.1			689280	OAJ3	EET CAL 4	01/30/26 12:01
Total/NA	Analysis	625.1		1	691696	PQS1	EET CAL 4	02/05/26 10:59
Total/NA	Prep	625.1			689280	OAJ3	EET CAL 4	01/30/26 12:01
Total/NA	Analysis	625.1 SIM		1	691132	PQS1	EET CAL 4	02/04/26 10:29
Total/NA	Analysis	8015B GRO LL		1	691227	A9VE	EET CAL 4	02/04/26 17:13
Total/NA	Prep	3510C			689963	TVD6	EET CAL 4	02/02/26 09:35
Total/NA	Analysis	8015B		1	692930	H6FE	EET CAL 4	02/06/26 20:23

## Client Sample ID: TB: MOANALUA WELLS P1

## Lab Sample ID: 380-195015-2

Date Collected: 01/26/26 10:08

Matrix: Water

Date Received: 01/29/26 09:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	691227	A9VE	EET CAL 4	02/04/26 21:27

**Laboratory References:**

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

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

# Accreditation/Certification Summary

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

Job ID: 380-195015-1  
SDG: Weekly: Moanalua Wells P1

## Laboratory: Eurofins Pomona

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

Authority	Program	Identification Number	Expiration Date
Hawaii	State	CA00006	01-31-26 *
<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	Water	1-Methylnaphthalene
525.2	525.2	Water	2,4'-DDD
525.2	525.2	Water	2,4'-DDE
525.2	525.2	Water	2,4'-DDT
525.2	525.2	Water	2,4-Dinitrotoluene
525.2	525.2	Water	2,6-Dinitrotoluene
525.2	525.2	Water	2-Methylnaphthalene
525.2	525.2	Water	4,4'-DDD
525.2	525.2	Water	4,4'-DDE
525.2	525.2	Water	4,4' DDT
525.2	525.2	Water	Acetochlor
525.2	525.2	Water	alpha-BHC
525.2	525.2	Water	alpha-Chlordane
525.2	525.2	Water	beta-BHC
525.2	525.2	Water	Chlorobenzilate
525.2	525.2	Water	Chloroneb
525.2	525.2	Water	Chlorothalonil (Draconil, Bravo)
525.2	525.2	Water	Chlorpyrifos
525.2	525.2	Water	delta-BHC
525.2	525.2	Water	Diclorvos (DDVP)
525.2	525.2	Water	Endosulfan I (Alpha)
525.2	525.2	Water	Endosulfan II (Beta)
525.2	525.2	Water	Endosulfan sulfate
525.2	525.2	Water	Endrin aldehyde
525.2	525.2	Water	EPTC
525.2	525.2	Water	gamma-Chlordane
525.2	525.2	Water	Isophorone
525.2	525.2	Water	Malathion
525.2	525.2	Water	Parathion
525.2	525.2	Water	Pendimethalin (Penoxaline)
525.2	525.2	Water	Terbacil
525.2	525.2	Water	Terbutylazine
525.2	525.2	Water	Total Permethrin (mixed isomers)
525.2	525.2	Water	trans-Nonachlor

## Laboratory: Eurofins Calscience

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

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	7296.01	11-30-26
A2LA	ISO/IEC 17025	7296.01	11-30-26
Alaska (UST)	State	25-005	03-02-26
Arizona	State	AZ0830	11-17-26
California	Los Angeles County Sanitation Districts	9257304	07-31-26
California	SCAQMD LAP	17LA0919	11-30-26

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

# Accreditation/Certification Summary

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

Job ID: 380-195015-1  
SDG: Weekly: Moanalua Wells P1

## 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
California	State	3082	07-31-26
Kansas	NELAP	E-10420	07-31-26
Nevada	State	CA00111	07-31-26
Oregon	NELAP	4175	02-02-27
USDA	US Federal Programs	525-23-159-97150	06-08-26
Utah	NELAP	CA00111	02-28-26
Washington	State	C916	10-11-26

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# Method Summary

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

Job ID: 380-195015-1  
SDG: Weekly: Moanalua Wells P1

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 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: 380-195015-1  
SDG: Weekly: Moanalua Wells P1

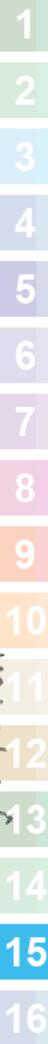
Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
380-195015-1	MOANALUA WELLS P1	Water	01/26/26 10:08	01/29/26 09:52	Hawaii
380-195015-2	TB: MOANALUA WELLS P1	Water	01/26/26 10:08	01/29/26 09:52	Hawaii

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**Chain of Custody Record**



<b>Client Information</b>		Lab PM: Lopez, Maria	380-195015 COC	Carrier Tracking No(s):	COC No:
Client Contact: Kirk Iwamoto		Phone: +1 808 748 5840		State of Origin:	Page: Page 1 of 1
Company: City & County of Honolulu		PWSID:		Job #:	
Address: 630 South Beretania Street Chemistry Lab		Due Date Requested:		Analysis Requested	
City: Honolulu		TAT Requested (days):		Preservation Codes: R - NaThioSO4 RA - NaThioHCl Q - Na2SO3 QA - Na2SO3/HCl Y - Trizma I - NH4 Acetate	
State, Zip: HI, 96843		Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Other:	
Phone: 808-748-5840 (Tel)		PO #: C20525101 exp 05312023		Total Number of Containers	
Email: kiwamoto@hbws.org		WO #:		Special Instructions/Note:	
Project Name: RED-HILL/HBWS Sites Event Desc: RUSH Weekly Red Hill		Project #: 38001111		pump 1	
Site: Hawaii		SSOW#:			
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Preservation Code:	Matrix (Water, Swab, Organics, etc)
Moanalua Wells	26-Jan-2026	1008	G	R 2 3 2 1	Water
Moanalua Wells (Matrix Spike)					Water
Moanalua Wells (Matrix Spike Duplicate)					Water
TB: Moanalua Wells	26-Jan-2026	1008		2	Water
<b>Possible Hazard Identification</b> <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested I, II, III, IV, Other (specify)					
<b>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</b> <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months					
<b>Empty Kit Relinquished by:</b> _____ Date: _____ Time: _____ <b>Special Instructions/QC Requirements:</b>					
<b>Received by:</b> _____ Date/Time: 2/13/2026 1400 Company: ANALIS		<b>Received by:</b> _____ Date/Time: 1/24/26 952 Company: EFAP			
<b>Relinquished by:</b> _____ Date/Time: _____ Company: _____		<b>Relinquished by:</b> _____ Date/Time: _____ Company: _____			
<b>Custody Seals Intact:</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Custody Seal No.: _____		<b>Custody Temperature(s) and Other Remarks:</b> 75.1 A 3.6/3.6 gel FV070A			





# Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-195015-1  
SDG Number: Weekly: Moanalua Wells P1

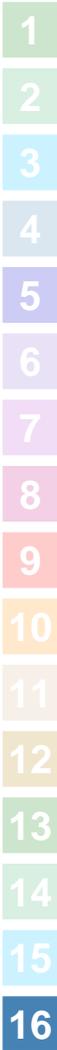
**Login Number: 195015**

**List Number: 1**

**Creator: Tran, Kristine**

**List Source: Eurofins Pomona**

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



## Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-195015-1  
SDG Number: Weekly: Moanalua Wells P1

**Login Number: 195015**

**List Number: 2**

**Creator: Khana, Piyush**

**List Source: Eurofins Calscience**

**List Creation: 01/29/26 07:41 PM**

Question	Answer	Comment
Radioactivity wasn't checked or is </= 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	2.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	fgf5
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	