

# ANALYTICAL REPORT

## PREPARED FOR

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## JOB DESCRIPTION

RED-HILL  
Weekly: Ka'amilo Wells P1

## JOB NUMBER

380-213671-1

# 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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# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	3
Definitions/Glossary . . . . .	4
Case Narrative . . . . .	5
Detection Summary . . . . .	6
Client Sample Results . . . . .	7
Action Limit Summary . . . . .	11
Surrogate Summary . . . . .	12
QC Sample Results . . . . .	14
QC Association Summary . . . . .	28
Lab Chronicle . . . . .	30
Certification Summary . . . . .	31
Method Summary . . . . .	33
Sample Summary . . . . .	34
Chain of Custody . . . . .	35
Receipt Checklists . . . . .	37

# Definitions/Glossary

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

Job ID: 380-213671-1  
SDG: Weekly: Ka'amilo Wells P1

## Qualifiers

### GC/MS Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD 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.
☼	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: 380-213671-1

**Job ID: 380-213671-1**

**Eurofins Pomona**

## Job Narrative 380-213671-1

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 5/13/2026 9:28 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 2.6°C.

### GC/MS Semi VOA

Method 625.1 SIM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 570-740088 and analytical batch 570-740892 recovered outside control limits for the following analytes: 1-Methylnaphthalene and 2-Methylnaphthalene. Laboratory control sample / laboratory control sample duplicate (LCS/LCSD) percent recovery is in control for affected analytes.

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: 380-213671-1  
SDG: Weekly: Ka'amilo Wells P1

**Client Sample ID: Ka'amilo Wells PI (331-031-WL008)**  
PWSID Number: HI0000331

**Lab Sample ID: 380-213671-1**

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Dieldrin	0.071		0.0097	ug/L	1		525.2	Total/NA
Heptachlor epoxide (isomer B)	0.013		0.0097	ug/L	1		525.2	Total/NA

**Client Sample ID: TB: Ka'amilo Wells PI (331-031-WL008)**

**Lab Sample ID: 380-213671-2**

No Detections.

This Detection Summary does not include radiochemical test results.

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# Client Sample Results

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

Job ID: 380-213671-1  
SDG: Weekly: Ka'amilo Wells P1

**Client Sample ID: Ka'amilo Wells PI (331-031-WL008)**

**Lab Sample ID: 380-213671-1**

Date Collected: 05/11/26 11:48

Matrix: Water

Date Received: 05/13/26 09:28

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.097		0.097	ug/L		05/18/26 08:22	05/18/26 15:15	1
2,4'-DDD	<0.097		0.097	ug/L		05/18/26 08:22	05/18/26 15:15	1
2,4'-DDE	<0.097		0.097	ug/L		05/18/26 08:22	05/18/26 15:15	1
2,4'-DDT	<0.097		0.097	ug/L		05/18/26 08:22	05/18/26 15:15	1
2,4-Dinitrotoluene	<0.097		0.097	ug/L		05/18/26 08:22	05/18/26 15:15	1
2,6-Dinitrotoluene	<0.097		0.097	ug/L		05/18/26 08:22	05/18/26 15:15	1
2-Methylnaphthalene	<0.097		0.097	ug/L		05/18/26 08:22	05/18/26 15:15	1
4,4'-DDD	<0.097		0.097	ug/L		05/18/26 08:22	05/18/26 15:15	1
4,4'-DDE	<0.097		0.097	ug/L		05/18/26 08:22	05/18/26 15:15	1
4,4'-DDT	<0.097		0.097	ug/L		05/18/26 08:22	05/18/26 15:15	1
Acenaphthene	<0.097		0.097	ug/L		05/18/26 08:22	05/18/26 15:15	1
Acenaphthylene	<0.097		0.097	ug/L		05/18/26 08:22	05/18/26 15:15	1
Acetochlor	<0.097		0.097	ug/L		05/18/26 08:22	05/18/26 15:15	1
Alachlor	<0.049		0.049	ug/L		05/18/26 08:22	05/18/26 15:15	1
alpha-BHC	<0.097		0.097	ug/L		05/18/26 08:22	05/18/26 15:15	1
alpha-Chlordane	<0.049		0.049	ug/L		05/18/26 08:22	05/18/26 15:15	1
Anthracene	<0.019		0.019	ug/L		05/18/26 08:22	05/18/26 15:15	1
Atrazine	<0.049		0.049	ug/L		05/18/26 08:22	05/18/26 15:15	1
Benz(a)anthracene	<0.049		0.049	ug/L		05/18/26 08:22	05/18/26 15:15	1
Benzo[a]pyrene	<0.019		0.019	ug/L		05/18/26 08:22	05/18/26 15:15	1
Benzo[b]fluoranthene	<0.019		0.019	ug/L		05/18/26 08:22	05/18/26 15:15	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		05/18/26 08:22	05/18/26 15:15	1
Benzo[k]fluoranthene	<0.019		0.019	ug/L		05/18/26 08:22	05/18/26 15:15	1
beta-BHC	<0.097		0.097	ug/L		05/18/26 08:22	05/18/26 15:15	1
Bis(2-ethylhexyl) phthalate	<0.58		0.58	ug/L		05/18/26 08:22	05/18/26 15:15	1
Bromacil	<0.097		0.097	ug/L		05/18/26 08:22	05/18/26 15:15	1
Butachlor	<0.049		0.049	ug/L		05/18/26 08:22	05/18/26 15:15	1
Butylbenzylphthalate	<0.49		0.49	ug/L		05/18/26 08:22	05/18/26 15:15	1
Chlorobenzilate	<0.097		0.097	ug/L		05/18/26 08:22	05/18/26 15:15	1
Chloroneb	<0.097		0.097	ug/L		05/18/26 08:22	05/18/26 15:15	1
Chlorothalonil (Draconil, Bravo)	<0.097		0.097	ug/L		05/18/26 08:22	05/18/26 15:15	1
Chlorpyrifos	<0.049		0.049	ug/L		05/18/26 08:22	05/18/26 15:15	1
Chrysene	<0.019		0.019	ug/L		05/18/26 08:22	05/18/26 15:15	1
delta-BHC	<0.097		0.097	ug/L		05/18/26 08:22	05/18/26 15:15	1
Di(2-ethylhexyl)adipate	<0.58		0.58	ug/L		05/18/26 08:22	05/18/26 15:15	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		05/18/26 08:22	05/18/26 15:15	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		05/18/26 08:22	05/18/26 15:15	1
<b>Dieldrin</b>	<b>0.071</b>		0.0097	ug/L		05/18/26 08:22	05/18/26 15:15	1
Diethylphthalate	<0.49		0.49	ug/L		05/18/26 08:22	05/18/26 15:15	1
Dimethylphthalate	<0.49		0.49	ug/L		05/18/26 08:22	05/18/26 15:15	1
Di-n-butyl phthalate	<0.97		0.97	ug/L		05/18/26 08:22	05/18/26 15:15	1
Di-n-octyl phthalate	<0.097		0.097	ug/L		05/18/26 08:22	05/18/26 15:15	1
Endosulfan I (Alpha)	<0.097		0.097	ug/L		05/18/26 08:22	05/18/26 15:15	1
Endosulfan II (Beta)	<0.097		0.097	ug/L		05/18/26 08:22	05/18/26 15:15	1
Endosulfan sulfate	<0.097		0.097	ug/L		05/18/26 08:22	05/18/26 15:15	1
Endrin	<0.0097		0.0097	ug/L		05/18/26 08:22	05/18/26 15:15	1
Endrin aldehyde	<0.097		0.097	ug/L		05/18/26 08:22	05/18/26 15:15	1
EPTC	<0.097		0.097	ug/L		05/18/26 08:22	05/18/26 15:15	1
Fluoranthene	<0.097		0.097	ug/L		05/18/26 08:22	05/18/26 15:15	1

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# Client Sample Results

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

Job ID: 380-213671-1  
SDG: Weekly: Ka'amilo Wells P1

**Client Sample ID: Ka'amilo Wells PI (331-031-WL008)**

**Lab Sample ID: 380-213671-1**

Date Collected: 05/11/26 11:48

Matrix: Water

Date Received: 05/13/26 09:28

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		05/18/26 08:22	05/18/26 15:15	1
gamma-Chlordane	<0.049		0.049	ug/L		05/18/26 08:22	05/18/26 15:15	1
Heptachlor	<0.0097		0.0097	ug/L		05/18/26 08:22	05/18/26 15:15	1
<b>Heptachlor epoxide (isomer B)</b>	<b>0.013</b>		0.0097	ug/L		05/18/26 08:22	05/18/26 15:15	1
Hexachlorobenzene	<0.049		0.049	ug/L		05/18/26 08:22	05/18/26 15:15	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		05/18/26 08:22	05/18/26 15:15	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		05/18/26 08:22	05/18/26 15:15	1
Isophorone	<0.097		0.097	ug/L		05/18/26 08:22	05/18/26 15:15	1
Lindane	<0.0097		0.0097	ug/L		05/18/26 08:22	05/18/26 15:15	1
Malathion	<0.097		0.097	ug/L		05/18/26 08:22	05/18/26 15:15	1
Methoxychlor	<0.049		0.049	ug/L		05/18/26 08:22	05/18/26 15:15	1
Metolachlor	<0.049		0.049	ug/L		05/18/26 08:22	05/18/26 15:15	1
Molinate	<0.097		0.097	ug/L		05/18/26 08:22	05/18/26 15:15	1
Naphthalene	<0.097		0.097	ug/L		05/18/26 08:22	05/18/26 15:15	1
Parathion	<0.097		0.097	ug/L		05/18/26 08:22	05/18/26 15:15	1
Pendimethalin (Penoxaline)	<0.097		0.097	ug/L		05/18/26 08:22	05/18/26 15:15	1
Phenanthrene	<0.039		0.039	ug/L		05/18/26 08:22	05/18/26 15:15	1
Propachlor	<0.049		0.049	ug/L		05/18/26 08:22	05/18/26 15:15	1
Pyrene	<0.049		0.049	ug/L		05/18/26 08:22	05/18/26 15:15	1
Simazine	<0.049		0.049	ug/L		05/18/26 08:22	05/18/26 15:15	1
Terbacil	<0.097		0.097	ug/L		05/18/26 08:22	05/18/26 15:15	1
Terbutylazine	<0.097		0.097	ug/L		05/18/26 08:22	05/18/26 15:15	1
Thiobencarb	<0.097		0.097	ug/L		05/18/26 08:22	05/18/26 15:15	1
Total Permethrin (mixed isomers)	<0.19		0.19	ug/L		05/18/26 08:22	05/18/26 15:15	1
trans-Nonachlor	<0.049		0.049	ug/L		05/18/26 08:22	05/18/26 15:15	1
Trifluralin	<0.097		0.097	ug/L		05/18/26 08:22	05/18/26 15:15	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	05/18/26 08:22	05/18/26 15:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	99		70 - 130	05/18/26 08:22	05/18/26 15:15	1
Perylene-d12	88		70 - 130	05/18/26 08:22	05/18/26 15:15	1
Triphenylphosphate	96		70 - 130	05/18/26 08:22	05/18/26 15:15	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	*1	0.19	ug/L		05/17/26 08:58	05/19/26 14:01	1
2-Methylnaphthalene	<0.19	*1	0.19	ug/L		05/17/26 08:58	05/19/26 14:01	1
Acenaphthene	<0.19		0.19	ug/L		05/17/26 08:58	05/19/26 14:01	1
Acenaphthylene	<0.19		0.19	ug/L		05/17/26 08:58	05/19/26 14:01	1
Anthracene	<0.19		0.19	ug/L		05/17/26 08:58	05/19/26 14:01	1
Benzo[a]anthracene	<0.19		0.19	ug/L		05/17/26 08:58	05/19/26 14:01	1
Benzo[a]pyrene	<0.19		0.19	ug/L		05/17/26 08:58	05/19/26 14:01	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		05/17/26 08:58	05/19/26 14:01	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		05/17/26 08:58	05/19/26 14:01	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		05/17/26 08:58	05/19/26 14:01	1
Chrysene	<0.19		0.19	ug/L		05/17/26 08:58	05/19/26 14:01	1
Dibenz(a,h)anthracene	<0.19		0.19	ug/L		05/17/26 08:58	05/19/26 14:01	1
Fluoranthene	<0.19		0.19	ug/L		05/17/26 08:58	05/19/26 14:01	1

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# Client Sample Results

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

Job ID: 380-213671-1  
SDG: Weekly: Ka'amilo Wells P1

**Client Sample ID: Ka'amilo Wells PI (331-031-WL008)**

**Lab Sample ID: 380-213671-1**

Date Collected: 05/11/26 11:48

Matrix: Water

Date Received: 05/13/26 09:28

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	<0.19		0.19	ug/L		05/17/26 08:58	05/19/26 14:01	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		05/17/26 08:58	05/19/26 14:01	1
Naphthalene	<0.19		0.19	ug/L		05/17/26 08:58	05/19/26 14:01	1
Phenanthrene	<0.19		0.19	ug/L		05/17/26 08:58	05/19/26 14:01	1
Pyrene	<0.19		0.19	ug/L		05/17/26 08:58	05/19/26 14:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	81		28 - 127	05/17/26 08:58	05/19/26 14:01	1
2-Fluorobiphenyl (Surr)	76		31 - 120	05/17/26 08:58	05/19/26 14:01	1
2-Fluorophenol (Surr)	44		17 - 120	05/17/26 08:58	05/19/26 14:01	1
Nitrobenzene-d5 (Surr)	76		27 - 120	05/17/26 08:58	05/19/26 14:01	1
Phenol-d6 (Surr)	29		10 - 120	05/17/26 08:58	05/19/26 14:01	1
p-Terphenyl-d14 (Surr)	74		45 - 120	05/17/26 08:58	05/19/26 14:01	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	05/17/26 08:58	05/26/26 11:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	70		33 - 139	05/17/26 08:58	05/26/26 11:37	1
2-Fluorobiphenyl (Surr)	88		33 - 126	05/17/26 08:58	05/26/26 11:37	1
2-Fluorophenol (Surr)	55		12 - 120	05/17/26 08:58	05/26/26 11:37	1
Nitrobenzene-d5 (Surr)	85		36 - 120	05/17/26 08:58	05/26/26 11:37	1
Phenol-d6 (Surr)	31		10 - 120	05/17/26 08:58	05/26/26 11:37	1
p-Terphenyl-d14 (Surr)	83		47 - 131	05/17/26 08:58	05/26/26 11:37	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			05/19/26 04:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		38 - 134		05/19/26 04:18	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		05/15/26 07:20	05/17/26 03:15	1
Motor Oil Range Organics [C24-C36]	<26		26	ug/L		05/15/26 07:20	05/17/26 03:15	1
C8-C18	<26		26	ug/L		05/15/26 07:20	05/17/26 03:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	123		60 - 130	05/15/26 07:20	05/17/26 03:15	1

**Client Sample ID: TB: Ka'amilo Wells PI (331-031-WL008)**

**Lab Sample ID: 380-213671-2**

Date Collected: 05/11/26 11:48

Matrix: Water

Date Received: 05/13/26 09:28

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	<10		10	ug/L			05/19/26 00:05	1

## Client Sample Results

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

Job ID: 380-213671-1  
 SDG: Weekly: Ka'amilo Wells P1

**Client Sample ID: TB: Ka'amilo Wells PI (331-031-WL008)**

**Lab Sample ID: 380-213671-2**

Date Collected: 05/11/26 11:48

Matrix: Water

Date Received: 05/13/26 09:28

<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)	101		38 - 134		05/19/26 00:05	1

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

# Action Limit Summary

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

Job ID: 380-213671-1  
 SDG: Weekly: Ka'amilo Wells P1

**Client Sample ID: Ka'amilo Wells PI (331-031-WL008)**

**Lab Sample ID: 380-213671-1**

**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	<0.019		ug/L	0.2	0.019	525.2	Total/NA
Bis(2-ethylhexyl) phthalate	<0.58		ug/L	6	0.58	525.2	Total/NA
Di(2-ethylhexyl)adipate	<0.58		ug/L	400	0.58	525.2	Total/NA
Endrin	<0.0097		ug/L	2	0.0097	525.2	Total/NA
Heptachlor	<0.0097		ug/L	0.4	0.0097	525.2	Total/NA
Heptachlor epoxide (isomer B)	0.013		ug/L	0.2	0.0097	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	<0.0097		ug/L	0.2	0.0097	525.2	Total/NA
Methoxychlor	<0.049		ug/L	40	0.049	525.2	Total/NA
Simazine	<0.049		ug/L	4	0.049	525.2	Total/NA
Benzo[a]pyrene	<0.19		ug/L	0.2	0.19	625.1 SIM	Total/NA

# Surrogate Summary

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

Job ID: 380-213671-1  
SDG: Weekly: Ka'amilo 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)
380-213671-1	Ka'amilo Wells PI (331-031-WL008)	99	88	96
380-213671-1 MS	Ka'amilo Wells PI (331-031-WL008)	97	94	95
380-213690-I-1-A DU	Duplicate	99	91	95
LCS 380-227748/23-A	Lab Control Sample	97	93	96
MB 380-227748/21-A	Method Blank	99	82	92
MRL 380-227748/22-A	Lab Control Sample	100	91	94

**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)
380-213671-1	Ka'amilo Wells PI (331-031-WL008)	70	88	55	85	31	83

**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)
380-213671-1	Ka'amilo Wells PI (331-031-WL008)	81	76	44	76	29	74
LCS 570-740088/2-A	Lab Control Sample	75	70	49	56	33	83
LCSD 570-740088/3-A	Lab Control Sample Dup	87	82	58	68	41	92
MB 570-740088/1-A	Method Blank	74	68	43	73	26	76

**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: 380-213671-1  
 SDG: Weekly: Ka'amilo 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)
380-213671-1	Ka'amilo Wells PI (331-031-WL008)	99
380-213671-2	TB: Ka'amilo Wells PI (331-031-WL008)	101
380-213690-B-1 MS	Matrix Spike	99
380-213690-B-1 MSD	Matrix Spike Duplicate	99
LCS 570-740696/3	Lab Control Sample	101
LCSD 570 740696/4	Lab Control Sample Dup	103
MB 570-740696/6	Method Blank	103
MRL 570-740696/5	Lab Control Sample	100
<b>Surrogate Legend</b>		
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)
380-213671-1	Ka'amilo Wells PI (331-031-WL008)	123
380-213690-C-1-A MS	Matrix Spike	114
380-213690-C-1-B MSD	Matrix Spike Duplicate	105
LCS 570-739333/2-A	Lab Control Sample	105
LCSD 570-739333/3-A	Lab Control Sample Dup	117
MB 570-739333/1-A	Method Blank	115
MRL 570-739333/4-A	Lab Control Sample	114
<b>Surrogate Legend</b>		
OTCSN = n-Octacosane (Surr)		

# QC Sample Results

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

Job ID: 380-213671-1  
SDG: Weekly: Ka'amilo Wells P1

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

**Lab Sample ID: MB 380-227748/21-A**  
**Matrix: Water**  
**Analysis Batch: 227780**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 227748**

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1-Methylnaphthalene	<0.099		0.099	ug/L		05/18/26 08:22	05/18/26 13:54	1
2,4'-DDD	<0.099		0.099	ug/L		05/18/26 08:22	05/18/26 13:54	1
2,4'-DDE	<0.099		0.099	ug/L		05/18/26 08:22	05/18/26 13:54	1
2,4'-DDT	<0.099		0.099	ug/L		05/18/26 08:22	05/18/26 13:54	1
2,4-Dinitrotoluene	<0.099		0.099	ug/L		05/18/26 08:22	05/18/26 13:54	1
2,6-Dinitrotoluene	<0.099		0.099	ug/L		05/18/26 08:22	05/18/26 13:54	1
2-Methylnaphthalene	<0.099		0.099	ug/L		05/18/26 08:22	05/18/26 13:54	1
4,4'-DDD	<0.099		0.099	ug/L		05/18/26 08:22	05/18/26 13:54	1
4,4'-DDE	<0.099		0.099	ug/L		05/18/26 08:22	05/18/26 13:54	1
4,4'-DDT	<0.099		0.099	ug/L		05/18/26 08:22	05/18/26 13:54	1
Acenaphthene	<0.099		0.099	ug/L		05/18/26 08:22	05/18/26 13:54	1
Acenaphthylene	<0.099		0.099	ug/L		05/18/26 08:22	05/18/26 13:54	1
Acetochlor	<0.099		0.099	ug/L		05/18/26 08:22	05/18/26 13:54	1
Alachlor	<0.050		0.050	ug/L		05/18/26 08:22	05/18/26 13:54	1
alpha-BHC	<0.099		0.099	ug/L		05/18/26 08:22	05/18/26 13:54	1
alpha-Chlordane	<0.050		0.050	ug/L		05/18/26 08:22	05/18/26 13:54	1
Anthracene	<0.020		0.020	ug/L		05/18/26 08:22	05/18/26 13:54	1
Atrazine	<0.050		0.050	ug/L		05/18/26 08:22	05/18/26 13:54	1
Benz(a)anthracene	<0.050		0.050	ug/L		05/18/26 08:22	05/18/26 13:54	1
Benzo[a]pyrene	<0.020		0.020	ug/L		05/18/26 08:22	05/18/26 13:54	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		05/18/26 08:22	05/18/26 13:54	1
Benzo[g,h,i]perylene	<0.050		0.050	ug/L		05/18/26 08:22	05/18/26 13:54	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		05/18/26 08:22	05/18/26 13:54	1
beta-BHC	<0.099		0.099	ug/L		05/18/26 08:22	05/18/26 13:54	1
Bis(2-ethylhexyl) phthalate	<0.60		0.60	ug/L		05/18/26 08:22	05/18/26 13:54	1
Bromacil	<0.099		0.099	ug/L		05/18/26 08:22	05/18/26 13:54	1
Butachlor	<0.050		0.050	ug/L		05/18/26 08:22	05/18/26 13:54	1
Butylbenzylphthalate	<0.50		0.50	ug/L		05/18/26 08:22	05/18/26 13:54	1
Chlorobenzilate	<0.099		0.099	ug/L		05/18/26 08:22	05/18/26 13:54	1
Chloroneb	<0.099		0.099	ug/L		05/18/26 08:22	05/18/26 13:54	1
Chlorothalonil (Draconil, Bravo)	<0.099		0.099	ug/L		05/18/26 08:22	05/18/26 13:54	1
Chlorpyrifos	<0.050		0.050	ug/L		05/18/26 08:22	05/18/26 13:54	1
Chrysene	<0.020		0.020	ug/L		05/18/26 08:22	05/18/26 13:54	1
delta-BHC	<0.099		0.099	ug/L		05/18/26 08:22	05/18/26 13:54	1
Di(2-ethylhexyl)adipate	<0.60		0.60	ug/L		05/18/26 08:22	05/18/26 13:54	1
Dibenz(a,h)anthracene	<0.050		0.050	ug/L		05/18/26 08:22	05/18/26 13:54	1
Diclorvos (DDVP)	<0.050		0.050	ug/L		05/18/26 08:22	05/18/26 13:54	1
Dieldrin	<0.0099		0.0099	ug/L		05/18/26 08:22	05/18/26 13:54	1
Diethylphthalate	<0.50		0.50	ug/L		05/18/26 08:22	05/18/26 13:54	1
Dimethylphthalate	<0.50		0.50	ug/L		05/18/26 08:22	05/18/26 13:54	1
Di-n-butyl phthalate	<0.99		0.99	ug/L		05/18/26 08:22	05/18/26 13:54	1
Di-n-octyl phthalate	<0.099		0.099	ug/L		05/18/26 08:22	05/18/26 13:54	1
Endosulfan I (Alpha)	<0.099		0.099	ug/L		05/18/26 08:22	05/18/26 13:54	1
Endosulfan II (Beta)	<0.099		0.099	ug/L		05/18/26 08:22	05/18/26 13:54	1
Endosulfan sulfate	<0.099		0.099	ug/L		05/18/26 08:22	05/18/26 13:54	1
Endrin	<0.0099		0.0099	ug/L		05/18/26 08:22	05/18/26 13:54	1
Endrin aldehyde	<0.099		0.099	ug/L		05/18/26 08:22	05/18/26 13:54	1
EPTC	<0.099		0.099	ug/L		05/18/26 08:22	05/18/26 13:54	1

# QC Sample Results

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

Job ID: 380-213671-1  
SDG: Weekly: Ka'amilo Wells P1

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

**Lab Sample ID: MB 380-227748/21-A**  
**Matrix: Water**  
**Analysis Batch: 227780**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 227748**

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Fluoranthene	<0.099		0.099	ug/L		05/18/26 08:22	05/18/26 13:54	1
Fluorene	<0.050		0.050	ug/L		05/18/26 08:22	05/18/26 13:54	1
gamma-Chlordane	<0.050		0.050	ug/L		05/18/26 08:22	05/18/26 13:54	1
Heptachlor	<0.0099		0.0099	ug/L		05/18/26 08:22	05/18/26 13:54	1
Heptachlor epoxide (isomer B)	<0.0099		0.0099	ug/L		05/18/26 08:22	05/18/26 13:54	1
Hexachlorobenzene	<0.050		0.050	ug/L		05/18/26 08:22	05/18/26 13:54	1
Hexachlorocyclopentadiene	<0.050		0.050	ug/L		05/18/26 08:22	05/18/26 13:54	1
Indeno[1,2,3-cd]pyrene	<0.050		0.050	ug/L		05/18/26 08:22	05/18/26 13:54	1
Isophorone	<0.099		0.099	ug/L		05/18/26 08:22	05/18/26 13:54	1
Lindane	<0.0099		0.0099	ug/L		05/18/26 08:22	05/18/26 13:54	1
Malathion	<0.099		0.099	ug/L		05/18/26 08:22	05/18/26 13:54	1
Methoxychlor	<0.050		0.050	ug/L		05/18/26 08:22	05/18/26 13:54	1
Metolachlor	<0.050		0.050	ug/L		05/18/26 08:22	05/18/26 13:54	1
Molinate	<0.099		0.099	ug/L		05/18/26 08:22	05/18/26 13:54	1
Naphthalene	<0.099		0.099	ug/L		05/18/26 08:22	05/18/26 13:54	1
Parathion	<0.099		0.099	ug/L		05/18/26 08:22	05/18/26 13:54	1
Pendimethalin (Penoxaline)	<0.099		0.099	ug/L		05/18/26 08:22	05/18/26 13:54	1
Phenanthrene	<0.040		0.040	ug/L		05/18/26 08:22	05/18/26 13:54	1
Propachlor	<0.050		0.050	ug/L		05/18/26 08:22	05/18/26 13:54	1
Pyrene	<0.050		0.050	ug/L		05/18/26 08:22	05/18/26 13:54	1
Simazine	<0.050		0.050	ug/L		05/18/26 08:22	05/18/26 13:54	1
Terbacil	<0.099		0.099	ug/L		05/18/26 08:22	05/18/26 13:54	1
Terbutylazine	<0.099		0.099	ug/L		05/18/26 08:22	05/18/26 13:54	1
Thiobencarb	<0.099		0.099	ug/L		05/18/26 08:22	05/18/26 13:54	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		05/18/26 08:22	05/18/26 13:54	1
trans-Nonachlor	<0.050		0.050	ug/L		05/18/26 08:22	05/18/26 13:54	1
Trifluralin	<0.099		0.099	ug/L		05/18/26 08:22	05/18/26 13:54	1

Tentatively Identified Compound	MB	MB	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
	Est. Result	Qualifier							
Undecane	6.36	T J N	ug/L		3.20	1120-21-4	05/18/26 08:22	05/18/26 13:54	1
9-Octadecenamamide, (Z)-	1.73	T J N	ug/L		7.99	301-02-0	05/18/26 08:22	05/18/26 13:54	1
13-Docosenamamide, (Z)-	0.513	T J N	ug/L		10.54	112-84-5	05/18/26 08:22	05/18/26 13:54	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Nitro-m-xylene	99		70 - 130	05/18/26 08:22	05/18/26 13:54	1
Perylene-d12	82		70 - 130	05/18/26 08:22	05/18/26 13:54	1
Triphenylphosphate	92		70 - 130	05/18/26 08:22	05/18/26 13:54	1

**Lab Sample ID: LCS 380-227748/23-A**  
**Matrix: Water**  
**Analysis Batch: 227780**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 227748**

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
1-Methylnaphthalene	1.98	1.97		ug/L		99	70 - 130
2,4'-DDD	1.98	1.78		ug/L		90	70 - 130
2,4'-DDE	1.98	1.88		ug/L		95	70 - 130
2,4'-DDT	1.98	1.80		ug/L		91	70 - 130
2,4-Dinitrotoluene	1.98	1.98		ug/L		100	70 - 130

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# QC Sample Results

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

Job ID: 380-213671-1  
SDG: Weekly: Ka'amilo Wells P1

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

Lab Sample ID: LCS 380-227748/23-A

Matrix: Water

Analysis Batch: 227780

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 227748

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec Limits
	Added	Result	Qualifier				
2,6-Dinitrotoluene	1.98	1.95		ug/L		98	70 - 130
2-Methylnaphthalene	1.98	1.96		ug/L		99	70 - 130
4,4'-DDD	1.98	1.90		ug/L		96	70 - 130
4,4'-DDE	1.98	1.95		ug/L		98	70 - 130
4,4'-DDT	1.98	1.97		ug/L		99	70 - 130
Acenaphthene	1.98	2.06		ug/L		104	70 - 130
Acenaphthylene	1.98	1.80		ug/L		91	70 - 130
Acetochlor	1.98	2.08		ug/L		105	70 - 130
Alachlor	1.98	2.09		ug/L		106	70 - 130
alpha-BHC	1.98	2.03		ug/L		102	70 - 130
alpha-Chlordane	1.98	1.86		ug/L		94	70 - 130
Anthracene	1.98	2.08		ug/L		105	70 - 130
Atrazine	1.98	1.91		ug/L		96	70 - 130
Benz(a)anthracene	1.98	2.01		ug/L		101	70 - 130
Benzo[a]pyrene	1.98	1.88		ug/L		95	70 - 130
Benzo[b]fluoranthene	1.98	2.12		ug/L		107	70 - 130
Benzo[g,h,i]perylene	1.98	2.11		ug/L		106	70 - 130
Benzo[k]fluoranthene	1.98	2.12		ug/L		107	70 - 130
beta-BHC	1.98	2.02		ug/L		102	70 - 130
Bis(2-ethylhexyl) phthalate	1.98	2.15		ug/L		108	70 - 130
Bromacil	1.98	1.75		ug/L		88	70 - 130
Butachlor	1.98	2.10		ug/L		106	70 - 130
Butylbenzylphthalate	1.98	2.17		ug/L		109	70 - 130
Chlorobenzilate	1.98	2.06		ug/L		104	70 - 130
Chloroneb	1.98	2.05		ug/L		103	70 - 130
Chlorothalonil (Draconil, Bravo)	1.98	2.04		ug/L		103	70 - 130
Chlorpyrifos	1.98	1.91		ug/L		96	70 - 130
Chrysene	1.98	2.03		ug/L		103	70 - 130
delta-BHC	1.98	2.07		ug/L		104	70 - 130
Di(2-ethylhexyl)adipate	1.98	2.16		ug/L		109	70 - 130
Dibenz(a,h)anthracene	1.98	2.12		ug/L		107	70 - 130
Diclorvos (DDVP)	1.98	1.89		ug/L		95	70 - 130
Dieldrin	1.98	1.98		ug/L		100	70 - 130
Diethylphthalate	1.98	2.11		ug/L		106	70 - 130
Dimethylphthalate	1.98	2.06		ug/L		104	70 - 130
Di-n-butyl phthalate	3.97	4.03		ug/L		102	70 - 130
Di-n-octyl phthalate	1.98	1.99		ug/L		100	70 - 130
Endosulfan I (Alpha)	1.98	1.93		ug/L		97	70 - 130
Endosulfan II (Beta)	1.98	2.01		ug/L		101	70 - 130
Endosulfan sulfate	1.98	1.82		ug/L		92	70 - 130
Endrin	1.98	2.08		ug/L		105	70 - 130
Endrin aldehyde	1.98	1.99		ug/L		101	60 - 130
EPTC	1.98	1.97		ug/L		99	70 - 130
Fluoranthene	1.98	1.96		ug/L		99	70 - 130
Fluorene	1.98	2.09		ug/L		106	70 - 130
gamma-Chlordane	1.98	1.96		ug/L		99	70 - 130
Heptachlor	1.98	1.86		ug/L		94	70 - 130
Heptachlor epoxide (isomer B)	1.98	2.02		ug/L		102	70 - 130
Hexachlorobenzene	1.98	1.90		ug/L		96	70 - 130

Eurofins Pomona

# QC Sample Results

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

Job ID: 380-213671-1  
SDG: Weekly: Ka'amilo Wells P1

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

**Lab Sample ID: LCS 380-227748/23-A**

**Matrix: Water**

**Analysis Batch: 227780**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 227748**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Hexachlorocyclopentadiene	1.98	1.66		ug/L		83	70 - 130
Indeno[1,2,3-cd]pyrene	1.98	2.12		ug/L		107	70 - 130
Isophorone	1.98	2.04		ug/L		103	70 - 130
Lindane	1.98	2.03		ug/L		103	70 - 130
Malathion	1.98	1.97		ug/L		99	70 - 130
Methoxychlor	1.98	2.30		ug/L		116	70 - 130
Metolachlor	1.98	2.10		ug/L		106	70 - 130
Molinate	1.98	2.00		ug/L		101	70 - 130
Naphthalene	1.98	1.91		ug/L		96	70 - 130
Parathion	1.98	2.07		ug/L		105	70 - 130
Pendimethalin (Penoxaline)	1.98	1.67		ug/L		84	70 - 130
Phenanthrene	1.98	2.11		ug/L		106	70 - 130
Propachlor	1.98	2.04		ug/L		103	70 - 130
Pyrene	1.98	1.99		ug/L		100	70 - 130
Simazine	1.98	1.96		ug/L		99	70 - 130
Terbacil	1.98	1.98		ug/L		100	70 - 130
Terbutylazine	1.98	1.90		ug/L		96	70 - 130
Thiobencarb	1.98	1.99		ug/L		100	70 - 130
trans-Nonachlor	1.98	1.82		ug/L		91	70 - 130
Trifluralin	1.98	1.68		ug/L		85	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	97		70 - 130
Perylene-d12	93		70 - 130
Triphenylphosphate	96		70 - 130

**Lab Sample ID: MRL 380-227748/22-A**

**Matrix: Water**

**Analysis Batch: 227780**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 227748**

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	0.0981	0.106		ug/L		108	50 - 150
2,4'-DDD	0.0981	0.0944	J	ug/L		96	50 - 150
2,4'-DDE	0.0981	0.100		ug/L		102	50 - 150
2,4'-DDT	0.0981	0.111		ug/L		114	50 - 150
2,4-Dinitrotoluene	0.0981	0.108		ug/L		110	50 - 150
2,6-Dinitrotoluene	0.0981	0.118		ug/L		120	50 - 150
2-Methylnaphthalene	0.0981	0.0998		ug/L		102	50 - 150
4,4'-DDD	0.0981	0.105		ug/L		107	50 - 150
4,4'-DDE	0.0981	0.107		ug/L		109	50 - 150
4,4'-DDT	0.0981	0.116		ug/L		118	50 - 150
Acenaphthene	0.0981	0.101		ug/L		102	50 - 150
Acenaphthylene	0.0981	0.0801	J	ug/L		82	50 - 150
Acetochlor	0.0981	0.122		ug/L		124	50 - 150
Alachlor	0.0491	0.0574		ug/L		117	50 - 150
alpha-BHC	0.0981	0.107		ug/L		109	50 - 150
alpha-Chlordane	0.0245	<0.028		ug/L		111	50 - 150
Anthracene	0.0196	0.0237		ug/L		121	50 - 150

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# QC Sample Results

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

Job ID: 380-213671-1  
SDG: Weekly: Ka'amilo Wells P1

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

**Lab Sample ID: MRL 380-227748/22-A**

**Matrix: Water**

**Analysis Batch: 227780**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 227748**

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Atrazine	0.0491	0.0511		ug/L		104	50 - 150
Benz(a)anthracene	0.0491	0.0514		ug/L		105	50 - 150
Benzo[a]pyrene	0.0196	0.0226		ug/L		115	50 - 150
Benzo[b]fluoranthene	0.0196	0.0227		ug/L		116	50 - 150
Benzo[g,h,i]perylene	0.0491	0.0458	J	ug/L		93	50 - 150
Benzo[k]fluoranthene	0.0196	0.0208		ug/L		106	50 - 150
beta-BHC	0.0981	0.111		ug/L		113	50 - 150
Bis(2-ethylhexyl) phthalate	0.589	0.662		ug/L		112	50 - 150
Bromacil	0.0981	0.0993		ug/L		101	50 - 150
Butachlor	0.0491	0.0604		ug/L		123	50 - 150
Butylbenzylphthalate	0.491	0.563		ug/L		115	50 - 150
Chlorobenzilate	0.0981	0.111		ug/L		113	50 - 150
Chloroneb	0.0981	0.101		ug/L		103	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0981	0.0899	J	ug/L		92	50 - 150
Chlorpyrifos	0.0491	0.0591		ug/L		120	50 - 150
Chrysene	0.0196	0.0281		ug/L		143	50 - 150
delta-BHC	0.0981	0.109		ug/L		111	50 - 150
Di(2-ethylhexyl)adipate	0.589	0.688		ug/L		117	50 - 150
Dibenz(a,h)anthracene	0.0491	0.0497		ug/L		101	50 - 150
Diclorvos (DDVP)	0.0491	0.0522		ug/L		106	50 - 150
Dieldrin	0.00981	0.00993		ug/L		101	50 - 150
Diethylphthalate	0.491	0.520		ug/L		106	50 - 150
Dimethylphthalate	0.491	0.511		ug/L		104	50 - 150
Di-n-butyl phthalate	0.491	0.495	J	ug/L		101	49 - 243
Di-n-octyl phthalate	0.0981	0.103		ug/L		105	50 - 150
Endosulfan I (Alpha)	0.0981	0.109		ug/L		111	50 - 150
Endosulfan II (Beta)	0.0981	0.120		ug/L		122	50 - 150
Endosulfan sulfate	0.0981	0.0975	J	ug/L		99	50 - 150
Endrin	0.00981	0.0120		ug/L		122	50 - 150
Endrin aldehyde	0.0981	0.112		ug/L		115	50 - 150
EPTC	0.0981	0.102		ug/L		104	50 - 150
Fluoranthene	0.0981	0.110		ug/L		112	50 - 150
Fluorene	0.0491	0.0563		ug/L		115	50 - 150
gamma-Chlordane	0.0245	0.0268	J	ug/L		109	50 - 150
Heptachlor	0.00981	0.0145		ug/L		148	50 - 150
Heptachlor epoxide (isomer B)	0.00981	0.00966	J	ug/L		98	50 - 150
Hexachlorobenzene	0.0491	0.0465	J	ug/L		95	50 - 150
Hexachlorocyclopentadiene	0.0491	0.0439	J	ug/L		90	50 - 150
Indeno[1,2,3-cd]pyrene	0.0491	0.0493		ug/L		100	50 - 150
Isophorone	0.0981	0.125		ug/L		127	50 - 150
Lindane	0.00981	0.0132		ug/L		134	50 - 150
Malathion	0.0981	0.107		ug/L		109	50 - 150
Methoxychlor	0.0491	0.0627		ug/L		128	50 - 150
Metolachlor	0.0491	0.0567		ug/L		116	50 - 150
Molinate	0.0981	0.113		ug/L		115	50 - 150
Naphthalene	0.0981	0.0997		ug/L		102	50 - 150
Parathion	0.0981	0.0927	J	ug/L		94	50 - 150
Pendimethalin (Penoxaline)	0.0981	0.0960	J	ug/L		98	50 - 150
Phenanthrene	0.0393	0.0473		ug/L		120	50 - 150

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# QC Sample Results

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

Job ID: 380-213671-1  
SDG: Weekly: Ka'amilo Wells P1

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

Lab Sample ID: MRL 380-227748/22-A

Matrix: Water

Analysis Batch: 227780

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 227748

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Propachlor	0.0491	0.0560		ug/L		114	50 - 150
Pyrene	0.0491	0.0573		ug/L		117	50 - 150
Simazine	0.0491	0.0537		ug/L		109	50 - 150
Terbacil	0.0981	0.0855	J	ug/L		87	50 - 150
Terbutylazine	0.0981	0.109		ug/L		111	50 - 150
Thiobencarb	0.0981	0.107		ug/L		110	50 - 150
trans-Nonachlor	0.0245	<0.026		ug/L		103	50 - 150
Trifluralin	0.0981	0.0979	J	ug/L		100	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
2-Nitro-m-xylene	100		70 - 130
Perylene-d12	91		70 - 130
Triphenylphosphate	94		70 - 130

Lab Sample ID: 380-213671-1 MS

Matrix: Water

Analysis Batch: 227780

Client Sample ID: Ka'amilo Wells PI (331-031-WL008)

Prep Type: Total/NA

Prep Batch: 227748

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.097		1.96	1.99		ug/L		101	70 - 130
2,4'-DDD	<0.097		1.96	1.77		ug/L		91	70 - 130
2,4'-DDE	<0.097		1.96	1.86		ug/L		95	70 - 130
2,4'-DDT	<0.097		1.96	1.76		ug/L		90	70 - 130
2,4-Dinitrotoluene	<0.097		1.96	2.02		ug/L		103	70 - 130
2,6-Dinitrotoluene	<0.097		1.96	1.97		ug/L		101	70 - 130
2-Methylnaphthalene	<0.097		1.96	1.99		ug/L		101	70 - 130
4,4'-DDD	<0.097		1.96	1.87		ug/L		96	70 - 130
4,4'-DDE	<0.097		1.96	1.85		ug/L		95	70 - 130
4,4'-DDT	<0.097		1.96	1.88		ug/L		96	70 - 130
Acenaphthene	<0.097		1.96	2.10		ug/L		108	70 - 130
Acenaphthylene	<0.097		1.96	1.87		ug/L		95	70 - 130
Acetochlor	<0.097		1.96	2.07		ug/L		106	70 - 130
Alachlor	<0.049		1.96	2.12		ug/L		109	70 - 130
alpha-BHC	<0.097		1.96	2.02		ug/L		103	70 - 130
alpha-Chlordane	<0.049		1.96	1.90		ug/L		95	70 - 130
Anthracene	<0.019		1.96	2.11		ug/L		108	70 - 130
Atrazine	<0.049		1.96	1.91		ug/L		98	70 - 130
Benz(a)anthracene	<0.049		1.96	2.02		ug/L		103	70 - 130
Benzo[a]pyrene	<0.019		1.96	1.92		ug/L		98	70 - 130
Benzo[b]fluoranthene	<0.019		1.96	2.14		ug/L		109	70 - 130
Benzo[g,h,i]perylene	<0.049		1.96	2.16		ug/L		111	70 - 130
Benzo[k]fluoranthene	<0.019		1.96	2.17		ug/L		111	70 - 130
beta-BHC	<0.097		1.96	2.07		ug/L		106	70 - 130
Bis(2-ethylhexyl) phthalate	<0.58		1.96	1.78		ug/L		91	70 - 130
Bromacil	<0.097		1.96	1.78		ug/L		89	70 - 130
Butachlor	<0.049		1.96	2.12		ug/L		108	70 - 130
Butylbenzylphthalate	<0.49		1.96	2.18		ug/L		112	70 - 130
Chlorobenzilate	<0.097		1.96	2.08		ug/L		107	70 - 130

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# QC Sample Results

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

Job ID: 380-213671-1  
SDG: Weekly: Ka'amilo Wells P1

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

Lab Sample ID: 380-213671-1 MS

Client Sample ID: Ka'amilo Wells PI (331-031-WL008)

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 227780

Prep Batch: 227748

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
Chloroneb	<0.097		1.96	2.05		ug/L		105	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.097		1.96	1.96		ug/L		100	70 - 130
Chlorpyrifos	<0.049		1.96	1.85		ug/L		94	70 - 130
Chrysene	<0.019		1.96	2.07		ug/L		106	70 - 130
delta-BHC	<0.097		1.96	2.06		ug/L		105	70 - 130
Di(2-ethylhexyl)adipate	<0.58		1.96	1.90		ug/L		97	70 - 130
Dibenz(a,h)anthracene	<0.049		1.96	2.11		ug/L		108	70 - 130
Diclorvos (DDVP)	<0.049		1.96	1.90		ug/L		97	70 - 130
Dieldrin	0.071		1.96	2.12		ug/L		105	70 - 130
Diethylphthalate	<0.49		1.96	2.11		ug/L		108	70 - 130
Dimethylphthalate	<0.49		1.96	2.07		ug/L		106	70 - 130
Di-n-butyl phthalate	<0.97		3.91	4.05		ug/L		104	70 - 130
Di-n-octyl phthalate	<0.097		1.96	1.56		ug/L		80	70 - 130
Endosulfan I (Alpha)	<0.097		1.96	2.00		ug/L		102	70 - 130
Endosulfan II (Beta)	<0.097		1.96	2.05		ug/L		105	70 - 130
Endosulfan sulfate	<0.097		1.96	1.80		ug/L		92	70 - 130
Endrin	<0.0097		1.96	2.12		ug/L		109	70 - 130
Endrin aldehyde	<0.097		1.96	1.96		ug/L		100	60 - 130
EPTC	<0.097		1.96	1.99		ug/L		102	70 - 130
Fluoranthene	<0.097		1.96	1.97		ug/L		101	70 - 130
Fluorene	<0.049		1.96	2.09		ug/L		107	70 - 130
gamma-Chlordane	<0.049		1.96	1.99		ug/L		101	70 - 130
Heptachlor	<0.0097		1.96	1.88		ug/L		96	70 - 130
Heptachlor epoxide (isomer B)	0.013		1.96	2.06		ug/L		105	70 - 130
Hexachlorobenzene	<0.049		1.96	1.93		ug/L		99	70 - 130
Hexachlorocyclopentadiene	<0.049		1.96	1.68		ug/L		86	70 - 130
Indeno[1,2,3-cd]pyrene	<0.049		1.96	2.19		ug/L		112	70 - 130
Isophorone	<0.097		1.96	2.06		ug/L		106	70 - 130
Lindane	<0.0097		1.96	2.04		ug/L		104	70 - 130
Malathion	<0.097		1.96	1.98		ug/L		102	70 - 130
Methoxychlor	<0.049		1.96	2.34		ug/L		120	70 - 130
Metolachlor	<0.049		1.96	2.11		ug/L		108	70 - 130
Molinate	<0.097		1.96	2.01		ug/L		103	70 - 130
Naphthalene	<0.097		1.96	1.94		ug/L		99	70 - 130
Parathion	<0.097		1.96	2.09		ug/L		107	70 - 130
Pendimethalin (Penoxaline)	<0.097		1.96	1.66		ug/L		85	70 - 130
Phenanthrene	<0.039		1.96	2.12		ug/L		109	70 - 130
Propachlor	<0.049		1.96	2.06		ug/L		105	70 - 130
Pyrene	<0.049		1.96	2.00		ug/L		102	70 - 130
Simazine	<0.049		1.96	1.96		ug/L		100	70 - 130
Terbacil	<0.097		1.96	2.04		ug/L		104	70 - 130
Terbutylazine	<0.097		1.96	1.93		ug/L		99	70 - 130
Thiobencarb	<0.097		1.96	1.99		ug/L		102	70 - 130
trans-Nonachlor	<0.049		1.96	1.84		ug/L		93	70 - 130
Trifluralin	<0.097		1.96	1.73		ug/L		89	70 - 130

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	97		70 - 130

# QC Sample Results

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

Job ID: 380-213671-1  
SDG: Weekly: Ka'amilo Wells P1

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

**Lab Sample ID: 380-213671-1 MS**

**Matrix: Water**

**Analysis Batch: 227780**

**Client Sample ID: Ka'amilo Wells PI (331-031-WL008)**

**Prep Type: Total/NA**

**Prep Batch: 227748**

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
Perylene-d12	94		70 - 130
Triphenylphosphate	95		70 - 130

**Lab Sample ID: 380-213690-I-1-A DU**

**Matrix: Water**

**Analysis Batch: 227780**

**Client Sample ID: Duplicate**

**Prep Type: Total/NA**

**Prep Batch: 227748**

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
1-Methylnaphthalene	<0.098		<0.097		ug/L		NC	20
2,4'-DDD	<0.098		<0.097		ug/L		NC	20
2,4'-DDE	<0.098		<0.097		ug/L		NC	20
2,4'-DDT	<0.098		<0.097		ug/L		NC	20
2,4-Dinitrotoluene	<0.098		<0.097		ug/L		NC	20
2,6-Dinitrotoluene	<0.098		<0.097		ug/L		NC	20
2-Methylnaphthalene	<0.098		<0.097		ug/L		NC	20
4,4'-DDD	<0.098		<0.097		ug/L		NC	20
4,4'-DDE	<0.098		<0.097		ug/L		NC	20
4,4'-DDT	<0.098		<0.097		ug/L		NC	20
Acenaphthene	<0.098		<0.097		ug/L		NC	20
Acenaphthylene	<0.098		<0.097		ug/L		NC	20
Acetochlor	<0.098		<0.097		ug/L		NC	20
Alachlor	<0.049		<0.049		ug/L		NC	20
alpha-BHC	<0.098		<0.097		ug/L		NC	20
alpha-Chlordane	<0.049		<0.049		ug/L		NC	20
Anthracene	<0.020		<0.019		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		<0.019		ug/L		NC	20
Benzo[b]fluoranthene	<0.020		<0.019		ug/L		NC	20
Benzo[g,h,i]perylene	<0.049		<0.049		ug/L		NC	20
Benzo[k]fluoranthene	<0.020		<0.019		ug/L		NC	20
beta-BHC	<0.098		<0.097		ug/L		NC	20
Bis(2-ethylhexyl) phthalate	<0.59		<0.58		ug/L		NC	20
Bromacil	<0.098		<0.097		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		<0.097		ug/L		NC	20
Chloroneb	<0.098		<0.097		ug/L		NC	20
Chlorothalonil (Draconil, Bravo)	<0.098		<0.097		ug/L		NC	20
Chlorpyrifos	<0.049		<0.049		ug/L		NC	20
Chrysene	<0.020		<0.019		ug/L		NC	20
delta-BHC	<0.098		<0.097		ug/L		NC	20
Di(2-ethylhexyl)adipate	<0.59		<0.58		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	0.029		0.0285		ug/L		3	20
Diethylphthalate	<0.49		<0.49		ug/L		NC	20
Dimethylphthalate	<0.49		<0.49		ug/L		NC	20

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# QC Sample Results

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

Job ID: 380-213671-1  
SDG: Weekly: Ka'amilo Wells P1

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

Lab Sample ID: 380-213690-I-1-A DU

Client Sample ID: Duplicate

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 227780

Prep Batch: 227748

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Di-n-butyl phthalate	<0.98		<0.97		ug/L		NC	20
Di-n-octyl phthalate	<0.098		<0.097		ug/L		NC	20
Endosulfan I (Alpha)	<0.098		<0.097		ug/L		NC	20
Endosulfan II (Beta)	<0.098		<0.097		ug/L		NC	20
Endosulfan sulfate	<0.098		<0.097		ug/L		NC	20
Endrin	<0.0098		<0.0097		ug/L		NC	20
Endrin aldehyde	<0.098		<0.097		ug/L		NC	20
EPTC	<0.098		<0.097		ug/L		NC	20
Fluoranthene	<0.098		<0.097		ug/L		NC	20
Fluorene	<0.049		<0.049		ug/L		NC	20
gamma-Chlordane	<0.049		<0.049		ug/L		NC	20
Heptachlor	<0.0098		<0.0097		ug/L		NC	20
Heptachlor epoxide (isomer B)	0.014		0.0127		ug/L		10	20
Hexachlorobenzene	<0.049		<0.049		ug/L		NC	20
Hexachlorocyclopentadiene	<0.049		<0.049		ug/L		NC	20
Indeno[1,2,3-cd]pyrene	<0.049		<0.049		ug/L		NC	20
Isophorone	<0.098		<0.097		ug/L		NC	20
Lindane	<0.0098		<0.0097		ug/L		NC	20
Malathion	<0.098		<0.097		ug/L		NC	20
Methoxychlor	<0.049		<0.049		ug/L		NC	20
Metolachlor	<0.049		<0.049		ug/L		NC	20
Molinate	<0.098		<0.097		ug/L		NC	20
Naphthalene	<0.098		<0.097		ug/L		NC	20
Parathion	<0.098		<0.097		ug/L		NC	20
Pendimethalin (Penoxaline)	<0.098		<0.097		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		<0.097		ug/L		NC	20
Terbutylazine	<0.098		<0.097		ug/L		NC	20
Thiobencarb	<0.098		<0.097		ug/L		NC	20
Total Permethrin (mixed isomers)	<0.20		<0.19		ug/L		NC	20
trans-Nonachlor	<0.049		<0.049		ug/L		NC	20
Trifluralin	<0.098		<0.097		ug/L		NC	20

  

Surrogate	DU	DU	Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	99		70 - 130
Perylene-d12	91		70 - 130
Triphenylphosphate	95		70 - 130

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

Lab Sample ID: MB 570-740088/1-A

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 740892

Prep Batch: 740088

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1-Methylnaphthalene	<0.20		0.20	ug/L		05/17/26 08:58	05/19/26 07:05	1

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# QC Sample Results

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

Job ID: 380-213671-1  
SDG: Weekly: Ka'amilo Wells P1

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

**Lab Sample ID: MB 570-740088/1-A**

**Matrix: Water**

**Analysis Batch: 740892**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 740088**

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
2-Methylnaphthalene	<0.20		0.20	ug/L		05/17/26 08:58	05/19/26 07:05	1
Acenaphthene	<0.20		0.20	ug/L		05/17/26 08:58	05/19/26 07:05	1
Acenaphthylene	<0.20		0.20	ug/L		05/17/26 08:58	05/19/26 07:05	1
Anthracene	<0.20		0.20	ug/L		05/17/26 08:58	05/19/26 07:05	1
Benzo[a]anthracene	<0.20		0.20	ug/L		05/17/26 08:58	05/19/26 07:05	1
Benzo[a]pyrene	<0.20		0.20	ug/L		05/17/26 08:58	05/19/26 07:05	1
Benzo[b]fluoranthene	<0.20		0.20	ug/L		05/17/26 08:58	05/19/26 07:05	1
Benzo[g,h,i]perylene	<0.20		0.20	ug/L		05/17/26 08:58	05/19/26 07:05	1
Benzo[k]fluoranthene	<0.20		0.20	ug/L		05/17/26 08:58	05/19/26 07:05	1
Chrysene	<0.20		0.20	ug/L		05/17/26 08:58	05/19/26 07:05	1
Dibenz(a,h)anthracene	<0.20		0.20	ug/L		05/17/26 08:58	05/19/26 07:05	1
Fluoranthene	<0.20		0.20	ug/L		05/17/26 08:58	05/19/26 07:05	1
Fluorene	<0.20		0.20	ug/L		05/17/26 08:58	05/19/26 07:05	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20	ug/L		05/17/26 08:58	05/19/26 07:05	1
Naphthalene	<0.20		0.20	ug/L		05/17/26 08:58	05/19/26 07:05	1
Phenanthrene	<0.20		0.20	ug/L		05/17/26 08:58	05/19/26 07:05	1
Pyrene	<0.20		0.20	ug/L		05/17/26 08:58	05/19/26 07:05	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4,6-Tribromophenol (Surr)	74		28 - 127	05/17/26 08:58	05/19/26 07:05	1
2-Fluorobiphenyl (Surr)	68		31 - 120	05/17/26 08:58	05/19/26 07:05	1
2-Fluorophenol (Surr)	43		17 - 120	05/17/26 08:58	05/19/26 07:05	1
Nitrobenzene-d5 (Surr)	73		27 - 120	05/17/26 08:58	05/19/26 07:05	1
Phenol-d6 (Surr)	26		10 - 120	05/17/26 08:58	05/19/26 07:05	1
p-Terphenyl-d14 (Surr)	76		45 - 120	05/17/26 08:58	05/19/26 07:05	1

**Lab Sample ID: LCS 570-740088/2-A**

**Matrix: Water**

**Analysis Batch: 740892**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 740088**

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
1-Methylnaphthalene	20.0	13.2		ug/L		66	47 - 120
2-Methylnaphthalene	20.0	12.2		ug/L		61	43 - 120
Acenaphthene	20.0	16.0		ug/L		80	60 - 132
Acenaphthylene	20.0	15.7		ug/L		78	54 - 126
Anthracene	20.0	17.0		ug/L		85	43 - 120
Benzo[a]anthracene	20.0	17.5		ug/L		87	42 - 133
Benzo[a]pyrene	20.0	19.7		ug/L		98	32 - 148
Benzo[b]fluoranthene	20.0	18.2		ug/L		91	42 - 140
Benzo[g,h,i]perylene	20.0	17.6		ug/L		88	1 - 195
Benzo[k]fluoranthene	20.0	18.3		ug/L		92	25 - 146
Chrysene	20.0	17.0		ug/L		85	44 - 140
Dibenz(a,h)anthracene	20.0	18.4		ug/L		92	1 - 200
Fluoranthene	20.0	18.0		ug/L		90	43 - 121
Fluorene	20.0	16.9		ug/L		85	70 - 120
Indeno[1,2,3-cd]pyrene	20.0	18.0		ug/L		90	1 - 151
Naphthalene	20.0	12.2		ug/L		61	36 - 120
Phenanthrene	20.0	17.0		ug/L		85	65 - 120

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# QC Sample Results

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

Job ID: 380-213671-1  
SDG: Weekly: Ka'amilo Wells P1

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

Lab Sample ID: LCS 570-740088/2-A

Matrix: Water

Analysis Batch: 740892

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 740088

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Pyrene	20.0	16.5		ug/L		82	70 - 120

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	75		28 - 127
2-Fluorobiphenyl (Surr)	70		31 - 120
2-Fluorophenol (Surr)	49		17 - 120
Nitrobenzene-d5 (Surr)	56		27 - 120
Phenol-d6 (Surr)	33		10 - 120
p-Terphenyl-d14 (Surr)	83		45 - 120

Lab Sample ID: LCSD 570-740088/3-A

Matrix: Water

Analysis Batch: 740892

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 740088

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
1-Methylnaphthalene	20.0	17.0	*1	ug/L		85	47 - 120	25	20
2-Methylnaphthalene	20.0	15.9	*1	ug/L		79	43 - 120	26	20
Acenaphthene	20.0	18.5		ug/L		93	60 - 132	15	29
Acenaphthylene	20.0	18.3		ug/L		92	54 - 126	16	45
Anthracene	20.0	19.6		ug/L		98	43 - 120	14	40
Benzo[a]anthracene	20.0	19.7		ug/L		99	42 - 133	12	32
Benzo[a]pyrene	20.0	22.0		ug/L		110	32 - 148	11	43
Benzo[b]fluoranthene	20.0	21.1		ug/L		105	42 - 140	15	43
Benzo[g,h,i]perylene	20.0	19.7		ug/L		99	1 - 195	11	61
Benzo[k]fluoranthene	20.0	19.6		ug/L		98	25 - 146	7	38
Chrysene	20.0	19.3		ug/L		96	44 - 140	12	53
Dibenz(a,h)anthracene	20.0	20.7		ug/L		103	1 - 200	12	75
Fluoranthene	20.0	20.7		ug/L		103	43 - 121	14	40
Fluorene	20.0	19.1		ug/L		95	70 - 120	12	23
Indeno[1,2,3-cd]pyrene	20.0	20.0		ug/L		100	1 - 151	11	60
Naphthalene	20.0	15.2		ug/L		76	36 - 120	22	39
Phenanthrene	20.0	19.1		ug/L		95	65 - 120	12	24
Pyrene	20.0	19.3		ug/L		97	70 - 120	16	30

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	87		28 - 127
2-Fluorobiphenyl (Surr)	82		31 - 120
2-Fluorophenol (Surr)	58		17 - 120
Nitrobenzene-d5 (Surr)	68		27 - 120
Phenol-d6 (Surr)	41		10 - 120
p-Terphenyl-d14 (Surr)	92		45 - 120

# QC Sample Results

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

Job ID: 380-213671-1  
SDG: Weekly: Ka'amilo Wells P1

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

**Lab Sample ID: MB 570-740696/6**  
**Matrix: Water**  
**Analysis Batch: 740696**

**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			05/18/26 19:39	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		38 - 134				05/18/26 19:39	1

**Lab Sample ID: LCS 570-740696/3**  
**Matrix: Water**  
**Analysis Batch: 740696**

**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	415		ug/L		104	78 - 120
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	101		38 - 134				

**Lab Sample ID: LCSD 570-740696/4**  
**Matrix: Water**  
**Analysis Batch: 740696**

**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	437		ug/L		109	78 - 120	5	10
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	103		38 - 134						

**Lab Sample ID: MRL 570-740696/5**  
**Matrix: Water**  
**Analysis Batch: 740696**

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (C4-C13)	10.0	12.7		ug/L		127	50 - 150
Surrogate	MRL %Recovery	MRL Qualifier	Limits				
4-Bromofluorobenzene (Surr)	100		38 - 134				

**Lab Sample ID: 380-213690-B-1 MS**  
**Matrix: Water**  
**Analysis Batch: 740696**

**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	371		ug/L		93	68 - 122
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	99		38 - 134						

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# QC Sample Results

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

Job ID: 380-213671-1  
SDG: Weekly: Ka'amilo Wells P1

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

**Lab Sample ID: 380-213690-B-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 740696**

**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	379		ug/L		95	68 - 122	2	18
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>								
4-Bromofluorobenzene (Surr)	99		38 - 134								

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

**Lab Sample ID: MB 570-739333/1-A**  
**Matrix: Water**  
**Analysis Batch: 739984**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 739333**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<25		25	ug/L		05/15/26 07:19	05/17/26 00:01	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		05/15/26 07:19	05/17/26 00:01	1
C8-C18	<25		25	ug/L		05/15/26 07:19	05/17/26 00:01	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
n-Octacosane (Surr)	115		60 - 130			05/15/26 07:19	05/17/26 00:01	1

**Lab Sample ID: LCS 570-739333/2-A**  
**Matrix: Water**  
**Analysis Batch: 739984**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 739333**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
C10-C28	1600	1420		ug/L		89	56 - 127
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				
n-Octacosane (Surr)	105		60 - 130				

**Lab Sample ID: LCSD 570-739333/3-A**  
**Matrix: Water**  
**Analysis Batch: 739984**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 739333**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28	1600	1600		ug/L		100	56 - 127	12	23
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>						
n-Octacosane (Surr)	117		60 - 130						

**Lab Sample ID: MRL 570-739333/4-A**  
**Matrix: Water**  
**Analysis Batch: 739984**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 739333**

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
C10-C28	0.0200	<0.020		mg/L		82	50 - 150

# QC Sample Results

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

Job ID: 380-213671-1  
SDG: Weekly: Ka'amilo Wells P1

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

**Lab Sample ID: MRL 570-739333/4-A**  
**Matrix: Water**  
**Analysis Batch: 739984**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 739333**

<i>Surrogate</i>	<i>%Recovery</i>	<i>MRL MRL Qualifier</i>	<i>Limits</i>
<i>n-Octacosane (Surr)</i>	114		60 - 130

**Lab Sample ID: 380-213690-C-1-A MS**  
**Matrix: Water**  
**Analysis Batch: 739984**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 739333**

<i>Analyte</i>	<i>Sample Result</i>	<i>Sample Qualifier</i>	<i>Spike Added</i>	<i>MS Result</i>	<i>MS Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec Limits</i>
C10-C28	<26		1640	1600		ug/L		98	70 - 130

  

<i>Surrogate</i>	<i>%Recovery</i>	<i>MS MS Qualifier</i>	<i>Limits</i>
<i>n-Octacosane (Surr)</i>	114		60 - 130

**Lab Sample ID: 380-213690-C-1-B MSD**  
**Matrix: Water**  
**Analysis Batch: 739984**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 739333**

<i>Analyte</i>	<i>Sample Result</i>	<i>Sample Qualifier</i>	<i>Spike Added</i>	<i>MSD Result</i>	<i>MSD Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec Limits</i>	<i>RPD</i>	<i>RPD Limit</i>
C10-C28	<26		1650	1510		ug/L		92	70 - 130	6	20

  

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

# QC Association Summary

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

Job ID: 380-213671-1  
SDG: Weekly: Ka'amilo Wells P1

## GC/MS Semi VOA

### Prep Batch: 227748

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-213671-1	Ka'amilo Wells PI (331-031-WL008)	Total/NA	Water	525.2	
MB 380-227748/21-A	Method Blank	Total/NA	Water	525.2	
LCS 380-227748/23-A	Lab Control Sample	Total/NA	Water	525.2	
MRL 380-227748/22-A	Lab Control Sample	Total/NA	Water	525.2	
380-213671-1 MS	Ka'amilo Wells PI (331-031-WL008)	Total/NA	Water	525.2	
380-213690-I-1-A DU	Duplicate	Total/NA	Water	525.2	

### Analysis Batch: 227780

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-213671-1	Ka'amilo Wells PI (331-031-WL008)	Total/NA	Water	525.2	227748
MB 380-227748/21-A	Method Blank	Total/NA	Water	525.2	227748
LCS 380-227748/23-A	Lab Control Sample	Total/NA	Water	525.2	227748
MRL 380-227748/22-A	Lab Control Sample	Total/NA	Water	525.2	227748
380-213671-1 MS	Ka'amilo Wells PI (331-031-WL008)	Total/NA	Water	525.2	227748
380-213690-I-1-A DU	Duplicate	Total/NA	Water	525.2	227748

### Prep Batch: 740088

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-213671-1	Ka'amilo Wells PI (331-031-WL008)	Total/NA	Water	625.1	
MB 570-740088/1-A	Method Blank	Total/NA	Water	625.1	
LCS 570-740088/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 570-740088/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	

### Analysis Batch: 740892

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-213671-1	Ka'amilo Wells PI (331-031-WL008)	Total/NA	Water	625.1 SIM	740088
MB 570-740088/1-A	Method Blank	Total/NA	Water	625.1 SIM	740088
LCS 570-740088/2-A	Lab Control Sample	Total/NA	Water	625.1 SIM	740088
LCSD 570-740088/3-A	Lab Control Sample Dup	Total/NA	Water	625.1 SIM	740088

### Analysis Batch: 744032

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-213671-1	Ka'amilo Wells PI (331-031-WL008)	Total/NA	Water	625.1	740088

## GC VOA

### Analysis Batch: 740696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-213671-1	Ka'amilo Wells PI (331-031-WL008)	Total/NA	Water	8015B GRO LL	
380-213671-2	TB: Ka'amilo Wells PI (331-031-WL008)	Total/NA	Water	8015B GRO LL	
MB 570-740696/6	Method Blank	Total/NA	Water	8015B GRO LL	
LCS 570-740696/3	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-740696/4	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	
MRL 570-740696/5	Lab Control Sample	Total/NA	Water	8015B GRO LL	
380-213690-B-1 MS	Matrix Spike	Total/NA	Water	8015B GRO LL	
380-213690-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8015B GRO LL	

## GC Semi VOA

### Prep Batch: 739333

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-213671-1	Ka'amilo Wells PI (331-031-WL008)	Total/NA	Water	3510C	

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# QC Association Summary

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

Job ID: 380-213671-1  
 SDG: Weekly: Ka'amilo Wells P1

## GC Semi VOA (Continued)

### Prep Batch: 739333 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-739333/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-739333/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-739333/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-739333/4-A	Lab Control Sample	Total/NA	Water	3510C	
380-213690-C-1-A MS	Matrix Spike	Total/NA	Water	3510C	
380-213690-C-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

### Analysis Batch: 739984

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-213671-1	Ka'amilo Wells PI (331-031-WL008)	Total/NA	Water	8015B	739333
MB 570-739333/1-A	Method Blank	Total/NA	Water	8015B	739333
LCS 570-739333/2-A	Lab Control Sample	Total/NA	Water	8015B	739333
LCSD 570-739333/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	739333
MRL 570-739333/4-A	Lab Control Sample	Total/NA	Water	8015B	739333
380-213690-C-1-A MS	Matrix Spike	Total/NA	Water	8015B	739333
380-213690-C-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	8015B	739333



# Lab Chronicle

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

Job ID: 380-213671-1  
 SDG: Weekly: Ka'amilo Wells P1

**Client Sample ID: Ka'amilo Wells PI (331-031-WL008)**

**Lab Sample ID: 380-213671-1**

Date Collected: 05/11/26 11:48

Matrix: Water

Date Received: 05/13/26 09:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			227748	OTM3	EA POM	05/18/26 08:22
Total/NA	Analysis	525.2		1	227780	Q8LA	EA POM	05/18/26 15:15
Total/NA	Prep	625.1			740088	KLZQ	EET CAL 4	05/17/26 08:58
Total/NA	Analysis	625.1		1	744032	PQS1	EET CAL 4	05/26/26 11:37
Total/NA	Prep	625.1			740088	KLZQ	EET CAL 4	05/17/26 08:58
Total/NA	Analysis	625.1 SIM		1	740892	PQS1	EET CAL 4	05/19/26 14:01
Total/NA	Analysis	8015B GRO LL		1	740696	W4LC	EET CAL 4	05/19/26 04:18
Total/NA	Prep	3510C			739333	EP2G	EET CAL 4	05/15/26 07:20
Total/NA	Analysis	8015B		1	739984	H6FE	EET CAL 4	05/17/26 03:15

**Client Sample ID: TB: Ka'amilo Wells PI (331-031-WL008)**

**Lab Sample ID: 380-213671-2**

Date Collected: 05/11/26 11:48

Matrix: Water

Date Received: 05/13/26 09:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	740696	W4LC	EET CAL 4	05/19/26 00:05

**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: 380-213671-1  
 SDG: Weekly: Ka'amilo 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 *

The following analytes are included in this report, but the laboratory is not certified by Hawaii State CA00006. This list may include analytes for which the agency does not offer certification :

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

## Laboratory: Eurofins Calscience

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

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	7296.01	11-30-26
A2LA	ISO/IEC 17025	7296.01	11-30-26
Alaska (UST)	State	25-005	03-02-27
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: 380-213671-1  
SDG: Weekly: Ka'amilo 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	02-28-27
Washington	State	C916	10-12-26

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# Method Summary

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

Job ID: 380-213671-1  
SDG: Weekly: Ka'amilo 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: 380-213671-1  
SDG: Weekly: Ka'amilo Wells P1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	PWSID Number
380-213671-1	Ka'amilo Wells PI (331-031-WL008)	Water	05/11/26 11:48	05/13/26 09:28	HI0000331
380-213671-2	TB: Ka'amilo Wells PI (331-031-WL008)	Water	05/11/26 11:48	05/13/26 09:28	

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## Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-213671-1  
SDG Number: Weekly: Ka'amilo Wells P1

**Login Number: 213671**

**List Number: 1**

**Creator: Segura, Ryan**

**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").	True	
CIO4 headspace requirement met (>50% for CA, >30% for other states).	True	
Samples do not require splitting or compositing.	True	
Container provided by EEA	True	



## Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-213671-1  
SDG Number: Weekly: Ka'amilo Wells P1

**Login Number: 213671**

**List Number: 2**

**Creator: Szymborski, Jessica**

**List Source: Eurofins Calscience**

**List Creation: 05/14/26 03:45 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	1.6/1.9
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	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	