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# ANALYTICAL REPORT

## PREPARED FOR

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City & County of Honolulu  
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Honolulu, Hawaii 96843

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## JOB DESCRIPTION

RED-HILL  
Weekly: Halawa Wells Units 1&2 P1

## JOB NUMBER

380-193800-1

# Eurofins Pomona

## Job Notes

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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: 380-193800-1  
SDG: Weekly: Halawa Wells Units 1&2 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: 380-193800-1

**Job ID: 380-193800-1**

**Eurofins Pomona**

## Job Narrative 380-193800-1

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 1/22/2026 9:24 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.

### Receipt Exceptions

#### GC/MS Semi VOA

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: 380-193800-1  
SDG: Weekly: Halawa Wells Units 1&2 P1

## Client Sample ID: HALAWA WELL UNITS 1 & 2 P1

## Lab Sample ID: 380-193800-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Dieldrin	0.031		0.0096	ug/L	1		525.2	Total/NA
Heptachlor epoxide (isomer B)	0.0097		0.0096	ug/L	1		525.2	Total/NA

## Client Sample ID: TB: HALAWA WELL UNITS 1 & 2 P1

## Lab Sample ID: 380-193800-2

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: 380-193800-1  
SDG: Weekly: Halawa Wells Units 1&2 P1

**Client Sample ID: HALAWA WELL UNITS 1 & 2 P1**

**Lab Sample ID: 380-193800-1**

Date Collected: 01/20/26 11:00

Matrix: Water

Date Received: 01/22/26 09:24

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.096		0.096	ug/L		01/26/26 07:48	01/27/26 13:33	1
2,4'-DDD	<0.096		0.096	ug/L		01/26/26 07:48	01/27/26 13:33	1
2,4'-DDE	<0.096		0.096	ug/L		01/26/26 07:48	01/27/26 13:33	1
2,4'-DDT	<0.096		0.096	ug/L		01/26/26 07:48	01/27/26 13:33	1
2,4-Dinitrotoluene	<0.096		0.096	ug/L		01/26/26 07:48	01/27/26 13:33	1
2,6-Dinitrotoluene	<0.096		0.096	ug/L		01/26/26 07:48	01/27/26 13:33	1
2-Methylnaphthalene	<0.096		0.096	ug/L		01/26/26 07:48	01/27/26 13:33	1
4,4'-DDD	<0.096		0.096	ug/L		01/26/26 07:48	01/27/26 13:33	1
4,4'-DDE	<0.096		0.096	ug/L		01/26/26 07:48	01/27/26 13:33	1
4,4'-DDT	<0.096		0.096	ug/L		01/26/26 07:48	01/27/26 13:33	1
Acenaphthene	<0.096		0.096	ug/L		01/26/26 07:48	01/27/26 13:33	1
Acenaphthylene	<0.096		0.096	ug/L		01/26/26 07:48	01/27/26 13:33	1
Acetochlor	<0.096		0.096	ug/L		01/26/26 07:48	01/27/26 13:33	1
Alachlor	<0.048		0.048	ug/L		01/26/26 07:48	01/27/26 13:33	1
alpha-BHC	<0.096		0.096	ug/L		01/26/26 07:48	01/27/26 13:33	1
alpha-Chlordane	<0.048		0.048	ug/L		01/26/26 07:48	01/27/26 13:33	1
Anthracene	<0.019		0.019	ug/L		01/26/26 07:48	01/27/26 13:33	1
Atrazine	<0.048		0.048	ug/L		01/26/26 07:48	01/27/26 13:33	1
Benz(a)anthracene	<0.048		0.048	ug/L		01/26/26 07:48	01/27/26 13:33	1
Benzo[a]pyrene	<0.019		0.019	ug/L		01/26/26 07:48	01/27/26 13:33	1
Benzo[b]fluoranthene	<0.019		0.019	ug/L		01/26/26 07:48	01/27/26 13:33	1
Benzo[g,h,i]perylene	<0.048		0.048	ug/L		01/26/26 07:48	01/27/26 13:33	1
Benzo[k]fluoranthene	<0.019		0.019	ug/L		01/26/26 07:48	01/27/26 13:33	1
beta-BHC	<0.096		0.096	ug/L		01/26/26 07:48	01/27/26 13:33	1
Bis(2-ethylhexyl) phthalate	<0.58		0.58	ug/L		01/26/26 07:48	01/27/26 13:33	1
Bromacil	<0.096		0.096	ug/L		01/26/26 07:48	01/27/26 13:33	1
Butachlor	<0.048		0.048	ug/L		01/26/26 07:48	01/27/26 13:33	1
Butylbenzylphthalate	<0.48		0.48	ug/L		01/26/26 07:48	01/27/26 13:33	1
Chlorobenzilate	<0.096		0.096	ug/L		01/26/26 07:48	01/27/26 13:33	1
Chloroneb	<0.096		0.096	ug/L		01/26/26 07:48	01/27/26 13:33	1
Chlorothalonil (Draconil, Bravo)	<0.096		0.096	ug/L		01/26/26 07:48	01/27/26 13:33	1
Chlorpyrifos	<0.048		0.048	ug/L		01/26/26 07:48	01/27/26 13:33	1
Chrysene	<0.019		0.019	ug/L		01/26/26 07:48	01/27/26 13:33	1
delta-BHC	<0.096		0.096	ug/L		01/26/26 07:48	01/27/26 13:33	1
Di(2-ethylhexyl)adipate	<0.58		0.58	ug/L		01/26/26 07:48	01/27/26 13:33	1
Dibenz(a,h)anthracene	<0.048		0.048	ug/L		01/26/26 07:48	01/27/26 13:33	1
Diclorvos (DDVP)	<0.048		0.048	ug/L		01/26/26 07:48	01/27/26 13:33	1
<b>Dieldrin</b>	<b>0.031</b>		0.0096	ug/L		01/26/26 07:48	01/27/26 13:33	1
Diethylphthalate	<0.48		0.48	ug/L		01/26/26 07:48	01/27/26 13:33	1
Dimethylphthalate	<0.48		0.48	ug/L		01/26/26 07:48	01/27/26 13:33	1
Di-n-butyl phthalate	<0.96		0.96	ug/L		01/26/26 07:48	01/27/26 13:33	1
Di-n-octyl phthalate	<0.096		0.096	ug/L		01/26/26 07:48	01/27/26 13:33	1
Endosulfan I (Alpha)	<0.096		0.096	ug/L		01/26/26 07:48	01/27/26 13:33	1
Endosulfan II (Beta)	<0.096		0.096	ug/L		01/26/26 07:48	01/27/26 13:33	1
Endosulfan sulfate	<0.096		0.096	ug/L		01/26/26 07:48	01/27/26 13:33	1
Endrin	<0.0096		0.0096	ug/L		01/26/26 07:48	01/27/26 13:33	1
Endrin aldehyde	<0.096		0.096	ug/L		01/26/26 07:48	01/27/26 13:33	1
EPTC	<0.096		0.096	ug/L		01/26/26 07:48	01/27/26 13:33	1
Fluoranthene	<0.096		0.096	ug/L		01/26/26 07:48	01/27/26 13:33	1

# Client Sample Results

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

Job ID: 380-193800-1  
SDG: Weekly: Halawa Wells Units 1&2 P1

**Client Sample ID: HALAWA WELL UNITS 1 & 2 P1**

**Lab Sample ID: 380-193800-1**

Date Collected: 01/20/26 11:00

Matrix: Water

Date Received: 01/22/26 09:24

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	<0.048		0.048	ug/L		01/26/26 07:48	01/27/26 13:33	1
gamma-Chlordane	<0.048		0.048	ug/L		01/26/26 07:48	01/27/26 13:33	1
Heptachlor	<0.0096		0.0096	ug/L		01/26/26 07:48	01/27/26 13:33	1
<b>Heptachlor epoxide (isomer B)</b>	<b>0.0097</b>		0.0096	ug/L		01/26/26 07:48	01/27/26 13:33	1
Hexachlorobenzene	<0.048		0.048	ug/L		01/26/26 07:48	01/27/26 13:33	1
Hexachlorocyclopentadiene	<0.048		0.048	ug/L		01/26/26 07:48	01/27/26 13:33	1
Indeno[1,2,3-cd]pyrene	<0.048		0.048	ug/L		01/26/26 07:48	01/27/26 13:33	1
Isophorone	<0.096		0.096	ug/L		01/26/26 07:48	01/27/26 13:33	1
Lindane	<0.0096		0.0096	ug/L		01/26/26 07:48	01/27/26 13:33	1
Malathion	<0.096		0.096	ug/L		01/26/26 07:48	01/27/26 13:33	1
Methoxychlor	<0.048		0.048	ug/L		01/26/26 07:48	01/27/26 13:33	1
Metolachlor	<0.048		0.048	ug/L		01/26/26 07:48	01/27/26 13:33	1
Molinate	<0.096		0.096	ug/L		01/26/26 07:48	01/27/26 13:33	1
Naphthalene	<0.096		0.096	ug/L		01/26/26 07:48	01/27/26 13:33	1
Parathion	<0.096		0.096	ug/L		01/26/26 07:48	01/27/26 13:33	1
Pendimethalin (Penoxaline)	<0.096		0.096	ug/L		01/26/26 07:48	01/27/26 13:33	1
Phenanthrene	<0.038		0.038	ug/L		01/26/26 07:48	01/27/26 13:33	1
Propachlor	<0.048		0.048	ug/L		01/26/26 07:48	01/27/26 13:33	1
Pyrene	<0.048		0.048	ug/L		01/26/26 07:48	01/27/26 13:33	1
Simazine	<0.048		0.048	ug/L		01/26/26 07:48	01/27/26 13:33	1
Terbacil	<0.096		0.096	ug/L		01/26/26 07:48	01/27/26 13:33	1
Terbutylazine	<0.096		0.096	ug/L		01/26/26 07:48	01/27/26 13:33	1
Thiobencarb	<0.096		0.096	ug/L		01/26/26 07:48	01/27/26 13:33	1
Total Permethrin (mixed isomers)	<0.19		0.19	ug/L		01/26/26 07:48	01/27/26 13:33	1
trans-Nonachlor	<0.048		0.048	ug/L		01/26/26 07:48	01/27/26 13:33	1
Trifluralin	<0.096		0.096	ug/L		01/26/26 07:48	01/27/26 13:33	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	01/26/26 07:48	01/27/26 13:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	95		70 - 130	01/26/26 07:48	01/27/26 13:33	1
Perylene-d12	92		70 - 130	01/26/26 07:48	01/27/26 13:33	1
Triphenylphosphate	103		70 - 130	01/26/26 07:48	01/27/26 13:33	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		01/24/26 09:00	02/03/26 15:40	1
2-Methylnaphthalene	<0.19		0.19	ug/L		01/24/26 09:00	02/03/26 15:40	1
Acenaphthene	<0.19		0.19	ug/L		01/24/26 09:00	02/03/26 15:40	1
Acenaphthylene	<0.19		0.19	ug/L		01/24/26 09:00	02/03/26 15:40	1
Anthracene	<0.19		0.19	ug/L		01/24/26 09:00	02/03/26 15:40	1
Benzo[a]anthracene	<0.19		0.19	ug/L		01/24/26 09:00	02/03/26 15:40	1
Benzo[a]pyrene	<0.19		0.19	ug/L		01/24/26 09:00	02/03/26 15:40	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		01/24/26 09:00	02/03/26 15:40	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		01/24/26 09:00	02/03/26 15:40	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		01/24/26 09:00	02/03/26 15:40	1
Chrysene	<0.19		0.19	ug/L		01/24/26 09:00	02/03/26 15:40	1
Dibenz(a,h)anthracene	<0.19		0.19	ug/L		01/24/26 09:00	02/03/26 15:40	1
Fluoranthene	<0.19		0.19	ug/L		01/24/26 09:00	02/03/26 15:40	1

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# Client Sample Results

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

Job ID: 380-193800-1  
SDG: Weekly: Halawa Wells Units 1&2 P1

**Client Sample ID: HALAWA WELL UNITS 1 & 2 P1**

**Lab Sample ID: 380-193800-1**

Date Collected: 01/20/26 11:00

Matrix: Water

Date Received: 01/22/26 09:24

**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		01/24/26 09:00	02/03/26 15:40	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		01/24/26 09:00	02/03/26 15:40	1
Naphthalene	<0.19		0.19	ug/L		01/24/26 09:00	02/03/26 15:40	1
Phenanthrene	<0.19		0.19	ug/L		01/24/26 09:00	02/03/26 15:40	1
Pyrene	<0.19		0.19	ug/L		01/24/26 09:00	02/03/26 15:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	78		28 - 127	01/24/26 09:00	02/03/26 15:40	1
2-Fluorobiphenyl (Surr)	78		31 - 120	01/24/26 09:00	02/03/26 15:40	1
2-Fluorophenol (Surr)	52		17 - 120	01/24/26 09:00	02/03/26 15:40	1
Nitrobenzene-d5 (Surr)	79		27 - 120	01/24/26 09:00	02/03/26 15:40	1
Phenol-d6 (Surr)	32		10 - 120	01/24/26 09:00	02/03/26 15:40	1
p-Terphenyl-d14 (Surr)	87		45 - 120	01/24/26 09:00	02/03/26 15:40	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	01/24/26 09:00	02/04/26 15:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	57		33 - 139	01/24/26 09:00	02/04/26 15:02	1
2-Fluorobiphenyl (Surr)	75		33 - 126	01/24/26 09:00	02/04/26 15:02	1
2-Fluorophenol (Surr)	60		12 - 120	01/24/26 09:00	02/04/26 15:02	1
Nitrobenzene-d5 (Surr)	65		36 - 120	01/24/26 09:00	02/04/26 15:02	1
Phenol-d6 (Surr)	32		10 - 120	01/24/26 09:00	02/04/26 15:02	1
p-Terphenyl-d14 (Surr)	80		47 - 131	01/24/26 09:00	02/04/26 15:02	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	<10		10	ug/L			01/27/26 18:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		38 - 134		01/27/26 18:11	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		01/25/26 10:38	01/28/26 17:36	1
Motor Oil Range Organics [C24-C36]	<26		26	ug/L		01/25/26 10:38	01/28/26 17:36	1
C8-C18	<26		26	ug/L		01/25/26 10:38	01/28/26 17:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	119		60 - 130	01/25/26 10:38	01/28/26 17:36	1

**Client Sample ID: TB: HALAWA WELL UNITS 1 & 2 P1**

**Lab Sample ID: 380-193800-2**

Date Collected: 01/20/26 11:00

Matrix: Water

Date Received: 01/22/26 09:24

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	<10		10	ug/L			01/27/26 23:36	1

# Client Sample Results

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

Job ID: 380-193800-1  
SDG: Weekly: Halawa Wells Units 1&2 P1

**Client Sample ID: TB: HALAWA WELL UNITS 1 & 2 P1**

**Lab Sample ID: 380-193800-2**

**Date Collected: 01/20/26 11:00**

**Matrix: Water**

**Date Received: 01/22/26 09:24**

<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)	100		38 - 134		01/27/26 23:36	1

- 1
- 2
- 3
- 4
- 5
- 6
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- 16

# Action Limit Summary

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

Job ID: 380-193800-1  
SDG: Weekly: Halawa Wells Units 1&2 P1

**Client Sample ID: HALAWA WELL UNITS 1 & 2 P1**

**Lab Sample ID: 380-193800-1**

## 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 Limit	RL	Method	Prep Type
Alachlor	<0.048		ug/L	2	0.048	525.2	Total/NA
Atrazine	<0.048		ug/L	3	0.048	525.2	Total/NA
Benzo[a]pyrene	<0.019		ug/L	0.2	0.019	525.2	Total/NA
Bis(2-ethylhexyl) phthalate	<0.58		ug/L	6	0.58	525.2	Total/NA
Di(2-ethylhexyl)adipate	<0.58		ug/L	400	0.58	525.2	Total/NA
Endrin	<0.0096		ug/L	2	0.0096	525.2	Total/NA
Heptachlor	<0.0096		ug/L	0.4	0.0096	525.2	Total/NA
Heptachlor epoxide (isomer B)	0.0097		ug/L	0.2	0.0096	525.2	Total/NA
Hexachlorobenzene	<0.048		ug/L	1	0.048	525.2	Total/NA
Hexachlorocyclopentadiene	<0.048		ug/L	50	0.048	525.2	Total/NA
Lindane	<0.0096		ug/L	0.2	0.0096	525.2	Total/NA
Methoxychlor	<0.048		ug/L	40	0.048	525.2	Total/NA
Simazine	<0.048		ug/L	4	0.048	525.2	Total/NA
Benzo[a]pyrene	<0.19		ug/L	0.2	0.19	625.1 SIM	Total/NA

# Surrogate Summary

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

Job ID: 380-193800-1  
SDG: Weekly: Halawa Wells Units 1&2 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)
380-193800-1	HALAWA WELL UNITS 1 & 2 P1	95	92	103
380-193902-B-1-A MS	Matrix Spike	96	99	105
380-193911-B-1-A DU	Duplicate	96	89	105
LCS 380-200931/23-A	Lab Control Sample	98	100	109
MB 380-200931/21-A	Method Blank	97	87	105
MRL 380-200931/22-A	Lab Control Sample	97	91	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)
380-193800-1	HALAWA WELL UNITS 1 & 2 P1	57	75	60	65	32	80
MB 570-686409/1-A	Method Blank	98	95	73	86	37	102

**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)
380-193800-1	HALAWA WELL UNITS 1 & 2 P1	78	78	52	79	32	87
570-264273-D-1-A MS	Matrix Spike	102	91	68	101	44	93
570-264273-F-1-A MSD	Matrix Spike Duplicate	85	77	60	85	39	79
LCS 570-686409/2-A	Lab Control Sample	105	88	69	96	44	99
LCSD 570-686409/3-A	Lab Control Sample Dup	95	80	58	82	38	91
MB 570-686409/1-A	Method Blank	97	87	59	89	37	82

**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: 380-193800-1  
 SDG: Weekly: Halawa Wells Units 1&2 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)
380-193582-X-1 MS	Matrix Spike	97
380-193582-Y-1 MSD	Matrix Spike Duplicate	92
380-193800-1	HALAWA WELL UNITS 1 & 2 P1	94
380-193800-2	TB: HALAWA WELL UNITS 1 & 2 P1	100
LCS 570-687650/3	Lab Control Sample	86
LCSD 570 687650/4	Lab Control Sample Dup	93
MB 570-687650/5	Method Blank	85
MRL 570-687650/6	Lab Control Sample	86

**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)
380-193800-1	HALAWA WELL UNITS 1 & 2 P1	119
380-194233-C-1-A MS	Matrix Spike	120
380-194233-D-1-A MSD	Matrix Spike Duplicate	115
LCS 570-686737/2-A	Lab Control Sample	92
LCSD 570-686737/3-A	Lab Control Sample Dup	102
MB 570-686737/1-A	Method Blank	117
MRL 570-686737/4-A	Lab Control Sample	121

**Surrogate Legend**

OTCSN = n-Octacosane (Surr)

# QC Sample Results

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

Job ID: 380-193800-1  
 SDG: Weekly: Halawa Wells Units 1&2 P1

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

Lab Sample ID: MB 380-200931/21-A  
 Matrix: Water  
 Analysis Batch: 201255

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 200931

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.099		0.099	ug/L		01/26/26 07:48	01/27/26 10:38	1
2,4'-DDD	<0.099		0.099	ug/L		01/26/26 07:48	01/27/26 10:38	1
2,4'-DDE	<0.099		0.099	ug/L		01/26/26 07:48	01/27/26 10:38	1
2,4'-DDT	<0.099		0.099	ug/L		01/26/26 07:48	01/27/26 10:38	1
2,4-Dinitrotoluene	<0.099		0.099	ug/L		01/26/26 07:48	01/27/26 10:38	1
2,6-Dinitrotoluene	<0.099		0.099	ug/L		01/26/26 07:48	01/27/26 10:38	1
2-Methylnaphthalene	<0.099		0.099	ug/L		01/26/26 07:48	01/27/26 10:38	1
4,4'-DDD	<0.099		0.099	ug/L		01/26/26 07:48	01/27/26 10:38	1
4,4'-DDE	<0.099		0.099	ug/L		01/26/26 07:48	01/27/26 10:38	1
4,4'-DDT	<0.099		0.099	ug/L		01/26/26 07:48	01/27/26 10:38	1
Acenaphthene	<0.099		0.099	ug/L		01/26/26 07:48	01/27/26 10:38	1
Acenaphthylene	<0.099		0.099	ug/L		01/26/26 07:48	01/27/26 10:38	1
Acetochlor	<0.099		0.099	ug/L		01/26/26 07:48	01/27/26 10:38	1
Alachlor	<0.050		0.050	ug/L		01/26/26 07:48	01/27/26 10:38	1
alpha-BHC	<0.099		0.099	ug/L		01/26/26 07:48	01/27/26 10:38	1
alpha-Chlordane	<0.050		0.050	ug/L		01/26/26 07:48	01/27/26 10:38	1
Anthracene	<0.020		0.020	ug/L		01/26/26 07:48	01/27/26 10:38	1
Atrazine	<0.050		0.050	ug/L		01/26/26 07:48	01/27/26 10:38	1
Benz(a)anthracene	<0.050		0.050	ug/L		01/26/26 07:48	01/27/26 10:38	1
Benzo[a]pyrene	<0.020		0.020	ug/L		01/26/26 07:48	01/27/26 10:38	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		01/26/26 07:48	01/27/26 10:38	1
Benzo[g,h,i]perylene	<0.050		0.050	ug/L		01/26/26 07:48	01/27/26 10:38	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		01/26/26 07:48	01/27/26 10:38	1
beta-BHC	<0.099		0.099	ug/L		01/26/26 07:48	01/27/26 10:38	1
Bis(2-ethylhexyl) phthalate	<0.60		0.60	ug/L		01/26/26 07:48	01/27/26 10:38	1
Bromacil	<0.099		0.099	ug/L		01/26/26 07:48	01/27/26 10:38	1
Butachlor	<0.050		0.050	ug/L		01/26/26 07:48	01/27/26 10:38	1
Butylbenzylphthalate	<0.50		0.50	ug/L		01/26/26 07:48	01/27/26 10:38	1
Chlorobenzilate	<0.099		0.099	ug/L		01/26/26 07:48	01/27/26 10:38	1
Chloroneb	<0.099		0.099	ug/L		01/26/26 07:48	01/27/26 10:38	1
Chlorothalonil (Draconil, Bravo)	<0.099		0.099	ug/L		01/26/26 07:48	01/27/26 10:38	1
Chlorpyrifos	<0.050		0.050	ug/L		01/26/26 07:48	01/27/26 10:38	1
Chrysene	<0.020		0.020	ug/L		01/26/26 07:48	01/27/26 10:38	1
delta-BHC	<0.099		0.099	ug/L		01/26/26 07:48	01/27/26 10:38	1
Di(2-ethylhexyl)adipate	<0.60		0.60	ug/L		01/26/26 07:48	01/27/26 10:38	1
Dibenz(a,h)anthracene	<0.050		0.050	ug/L		01/26/26 07:48	01/27/26 10:38	1
Diclorvos (DDVP)	<0.050		0.050	ug/L		01/26/26 07:48	01/27/26 10:38	1
Dieldrin	<0.0099		0.0099	ug/L		01/26/26 07:48	01/27/26 10:38	1
Diethylphthalate	<0.50		0.50	ug/L		01/26/26 07:48	01/27/26 10:38	1
Dimethylphthalate	<0.50		0.50	ug/L		01/26/26 07:48	01/27/26 10:38	1
Di-n-butyl phthalate	<0.99		0.99	ug/L		01/26/26 07:48	01/27/26 10:38	1
Di-n-octyl phthalate	<0.099		0.099	ug/L		01/26/26 07:48	01/27/26 10:38	1
Endosulfan I (Alpha)	<0.099		0.099	ug/L		01/26/26 07:48	01/27/26 10:38	1
Endosulfan II (Beta)	<0.099		0.099	ug/L		01/26/26 07:48	01/27/26 10:38	1
Endosulfan sulfate	<0.099		0.099	ug/L		01/26/26 07:48	01/27/26 10:38	1
Endrin	<0.0099		0.0099	ug/L		01/26/26 07:48	01/27/26 10:38	1
Endrin aldehyde	<0.099		0.099	ug/L		01/26/26 07:48	01/27/26 10:38	1
EPTC	<0.099		0.099	ug/L		01/26/26 07:48	01/27/26 10:38	1

# QC Sample Results

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

Job ID: 380-193800-1  
SDG: Weekly: Halawa Wells Units 1&2 P1

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

**Lab Sample ID: MB 380-200931/21-A**  
**Matrix: Water**  
**Analysis Batch: 201255**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 200931**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.099		0.099	ug/L		01/26/26 07:48	01/27/26 10:38	1
Fluorene	<0.050		0.050	ug/L		01/26/26 07:48	01/27/26 10:38	1
gamma-Chlordane	<0.050		0.050	ug/L		01/26/26 07:48	01/27/26 10:38	1
Heptachlor	<0.0099		0.0099	ug/L		01/26/26 07:48	01/27/26 10:38	1
Heptachlor epoxide (isomer B)	<0.0099		0.0099	ug/L		01/26/26 07:48	01/27/26 10:38	1
Hexachlorobenzene	<0.050		0.050	ug/L		01/26/26 07:48	01/27/26 10:38	1
Hexachlorocyclopentadiene	<0.050		0.050	ug/L		01/26/26 07:48	01/27/26 10:38	1
Indeno[1,2,3-cd]pyrene	<0.050		0.050	ug/L		01/26/26 07:48	01/27/26 10:38	1
Isophorone	<0.099		0.099	ug/L		01/26/26 07:48	01/27/26 10:38	1
Lindane	<0.0099		0.0099	ug/L		01/26/26 07:48	01/27/26 10:38	1
Malathion	<0.099		0.099	ug/L		01/26/26 07:48	01/27/26 10:38	1
Methoxychlor	<0.050		0.050	ug/L		01/26/26 07:48	01/27/26 10:38	1
Metolachlor	<0.050		0.050	ug/L		01/26/26 07:48	01/27/26 10:38	1
Molinate	<0.099		0.099	ug/L		01/26/26 07:48	01/27/26 10:38	1
Naphthalene	<0.099		0.099	ug/L		01/26/26 07:48	01/27/26 10:38	1
Parathion	<0.099		0.099	ug/L		01/26/26 07:48	01/27/26 10:38	1
Pendimethalin (Penoxaline)	<0.099		0.099	ug/L		01/26/26 07:48	01/27/26 10:38	1
Phenanthrene	<0.040		0.040	ug/L		01/26/26 07:48	01/27/26 10:38	1
Propachlor	<0.050		0.050	ug/L		01/26/26 07:48	01/27/26 10:38	1
Pyrene	<0.050		0.050	ug/L		01/26/26 07:48	01/27/26 10:38	1
Simazine	<0.050		0.050	ug/L		01/26/26 07:48	01/27/26 10:38	1
Terbacil	<0.099		0.099	ug/L		01/26/26 07:48	01/27/26 10:38	1
Terbutylazine	<0.099		0.099	ug/L		01/26/26 07:48	01/27/26 10:38	1
Thiobencarb	<0.099		0.099	ug/L		01/26/26 07:48	01/27/26 10:38	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		01/26/26 07:48	01/27/26 10:38	1
trans-Nonachlor	<0.050		0.050	ug/L		01/26/26 07:48	01/27/26 10:38	1
Trifluralin	<0.099		0.099	ug/L		01/26/26 07:48	01/27/26 10:38	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Cyclopentene, 1,2,3,4,5-pentamethyl-	0.820	T J N	ug/L		2.52	1000154-28-6	01/26/26 07:48	01/27/26 10:38	1
Cyclotetrasiloxane, octamethyl-	0.811	T J N	ug/L		2.70	556-67-2	01/26/26 07:48	01/27/26 10:38	1
Undecane	2.87	T J N	ug/L		3.10	1120-21-4	01/26/26 07:48	01/27/26 10:38	1
Cyclopentasiloxane, decamethyl-	0.988	T J N	ug/L		3.23	541-02-6	01/26/26 07:48	01/27/26 10:38	1
Unknown	0.933	T J	ug/L		3.85	N/A	01/26/26 07:48	01/27/26 10:38	1
9-Octadecenamide, (Z)-	0.852	T J N	ug/L		7.86	301-02-0	01/26/26 07:48	01/27/26 10:38	1
Octadecane, 1-iodo-	0.532	T J N	ug/L		14.96	629-93-6	01/26/26 07:48	01/27/26 10:38	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	97		70 - 130	01/26/26 07:48	01/27/26 10:38	1
Perylene-d12	87		70 - 130	01/26/26 07:48	01/27/26 10:38	1
Triphenylphosphate	105		70 - 130	01/26/26 07:48	01/27/26 10:38	1

# QC Sample Results

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

Job ID: 380-193800-1  
SDG: Weekly: Halawa Wells Units 1&2 P1

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

**Lab Sample ID: LCS 380-200931/23-A**  
**Matrix: Water**  
**Analysis Batch: 201255**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 200931**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	1.98	1.91		ug/L		96	70 - 130
2,4'-DDD	1.98	2.19		ug/L		110	70 - 130
2,4'-DDE	1.98	2.24		ug/L		113	70 - 130
2,4'-DDT	1.98	2.04		ug/L		103	70 - 130
2,4-Dinitrotoluene	1.98	2.13		ug/L		107	70 - 130
2,6-Dinitrotoluene	1.98	2.00		ug/L		101	70 - 130
2-Methylnaphthalene	1.98	1.98		ug/L		100	70 - 130
4,4'-DDD	1.98	2.08		ug/L		105	70 - 130
4,4'-DDE	1.98	2.27		ug/L		115	70 - 130
4,4'-DDT	1.98	2.08		ug/L		105	70 - 130
Acenaphthene	1.98	2.04		ug/L		103	70 - 130
Acenaphthylene	1.98	2.16		ug/L		109	70 - 130
Acetochlor	1.98	2.22		ug/L		112	70 - 130
Alachlor	1.98	2.26		ug/L		114	70 - 130
alpha-BHC	1.98	2.09		ug/L		105	70 - 130
alpha-Chlordane	1.98	2.02		ug/L		102	70 - 130
Anthracene	1.98	1.95		ug/L		98	70 - 130
Atrazine	1.98	2.31		ug/L		116	70 - 130
Benz(a)anthracene	1.98	2.17		ug/L		109	70 - 130
Benzo[a]pyrene	1.98	2.32		ug/L		117	70 - 130
Benzo[b]fluoranthene	1.98	2.16		ug/L		109	70 - 130
Benzo[g,h,i]perylene	1.98	2.03		ug/L		103	70 - 130
Benzo[k]fluoranthene	1.98	2.09		ug/L		105	70 - 130
beta-BHC	1.98	2.09		ug/L		105	70 - 130
Bis(2-ethylhexyl) phthalate	1.98	2.22		ug/L		112	70 - 130
Bromacil	1.98	1.93		ug/L		97	70 - 130
Butachlor	1.98	2.19		ug/L		110	70 - 130
Butylbenzylphthalate	1.98	2.25		ug/L		113	70 - 130
Chlorobenzilate	1.98	2.13		ug/L		108	70 - 130
Chloroneb	1.98	2.12		ug/L		107	70 - 130
Chlorothalonil (Draconil, Bravo)	1.98	2.09		ug/L		105	70 - 130
Chlorpyrifos	1.98	2.22		ug/L		112	70 - 130
Chrysene	1.98	2.00		ug/L		101	70 - 130
delta-BHC	1.98	2.03		ug/L		102	70 - 130
Di(2-ethylhexyl)adipate	1.98	2.37		ug/L		120	70 - 130
Dibenz(a,h)anthracene	1.98	2.15		ug/L		109	70 - 130
Diclorvos (DDVP)	1.98	2.21		ug/L		111	70 - 130
Dieldrin	1.98	2.12		ug/L		107	70 - 130
Diethylphthalate	1.98	2.22		ug/L		112	70 - 130
Dimethylphthalate	1.98	2.17		ug/L		109	70 - 130
Di-n-butyl phthalate	3.97	4.48		ug/L		113	70 - 130
Di-n-octyl phthalate	1.98	2.23		ug/L		112	70 - 130
Endosulfan I (Alpha)	1.98	2.02		ug/L		102	70 - 130
Endosulfan II (Beta)	1.98	2.10		ug/L		106	70 - 130
Endosulfan sulfate	1.98	2.03		ug/L		102	70 - 130
Endrin	1.98	2.28		ug/L		115	70 - 130
Endrin aldehyde	1.98	1.88		ug/L		95	60 - 130
EPTC	1.98	2.14		ug/L		108	70 - 130

# QC Sample Results

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

Job ID: 380-193800-1  
SDG: Weekly: Halawa Wells Units 1&2 P1

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

**Lab Sample ID: LCS 380-200931/23-A**  
**Matrix: Water**  
**Analysis Batch: 201255**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 200931**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoranthene	1.98	2.15		ug/L		108	70 - 130
Fluorene	1.98	2.10		ug/L		106	70 - 130
gamma-Chlordane	1.98	2.02		ug/L		102	70 - 130
Heptachlor	1.98	2.22		ug/L		112	70 - 130
Heptachlor epoxide (isomer B)	1.98	2.12		ug/L		107	70 - 130
Hexachlorobenzene	1.98	2.02		ug/L		102	70 - 130
Hexachlorocyclopentadiene	1.98	2.01		ug/L		101	70 - 130
Indeno[1,2,3-cd]pyrene	1.98	2.13		ug/L		107	70 - 130
Isophorone	1.98	2.05		ug/L		104	70 - 130
Lindane	1.98	2.12		ug/L		107	70 - 130
Malathion	1.98	2.12		ug/L		107	70 - 130
Methoxychlor	1.98	2.08		ug/L		105	70 - 130
Metolachlor	1.98	2.15		ug/L		108	70 - 130
Molinate	1.98	2.16		ug/L		109	70 - 130
Naphthalene	1.98	1.89		ug/L		95	70 - 130
Parathion	1.98	2.16		ug/L		109	70 - 130
Pendimethalin (Penoxaline)	1.98	2.04		ug/L		103	70 - 130
Phenanthrene	1.98	1.84		ug/L		93	70 - 130
Propachlor	1.98	2.28		ug/L		115	70 - 130
Pyrene	1.98	2.16		ug/L		109	70 - 130
Simazine	1.98	2.34		ug/L		118	70 - 130
Terbacil	1.98	2.01		ug/L		101	70 - 130
Terbutylazine	1.98	2.41		ug/L		121	70 - 130
Thiobencarb	1.98	2.29		ug/L		115	70 - 130
trans-Nonachlor	1.98	2.00		ug/L		101	70 - 130
Trifluralin	1.98	2.04		ug/L		103	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Nitro-m-xylene	98		70 - 130
Perylene-d12	100		70 - 130
Triphenylphosphate	109		70 - 130

**Lab Sample ID: MRL 380-200931/22-A**  
**Matrix: Water**  
**Analysis Batch: 201255**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 200931**

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	0.0990	0.110		ug/L		112	50 - 150
2,4'-DDD	0.0990	0.0902	J	ug/L		91	50 - 150
2,4'-DDE	0.0990	0.107		ug/L		108	50 - 150
2,4'-DDT	0.0990	0.109		ug/L		110	50 - 150
2,4-Dinitrotoluene	0.0990	0.110		ug/L		111	50 - 150
2,6-Dinitrotoluene	0.0990	0.139		ug/L		140	50 - 150
2-Methylnaphthalene	0.0990	0.106		ug/L		107	50 - 150
4,4'-DDD	0.0990	0.114		ug/L		116	50 - 150
4,4'-DDE	0.0990	0.0994		ug/L		100	50 - 150
4,4'-DDT	0.0990	0.116		ug/L		117	50 - 150
Acenaphthene	0.0990	0.0903	J	ug/L		91	50 - 150

# QC Sample Results

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

Job ID: 380-193800-1  
SDG: Weekly: Halawa Wells Units 1&2 P1

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

**Lab Sample ID: MRL 380-200931/22-A**  
**Matrix: Water**  
**Analysis Batch: 201255**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 200931**

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthylene	0.0990	0.0995		ug/L		101	50 - 150
Acetochlor	0.0990	0.115		ug/L		116	50 - 150
Alachlor	0.0495	0.0540		ug/L		109	50 - 150
alpha-BHC	0.0990	0.106		ug/L		107	50 - 150
alpha-Chlordane	0.0248	<0.029		ug/L		108	50 - 150
Anthracene	0.0198	0.0227		ug/L		115	50 - 150
Atrazine	0.0495	0.0519		ug/L		105	50 - 150
Benz(a)anthracene	0.0495	0.0525		ug/L		106	50 - 150
Benzo[a]pyrene	0.0198	0.0253		ug/L		128	50 - 150
Benzo[b]fluoranthene	0.0198	0.0250		ug/L		126	50 - 150
Benzo[g,h,i]perylene	0.0495	0.0519		ug/L		105	50 - 150
Benzo[k]fluoranthene	0.0198	0.0254		ug/L		128	50 - 150
beta-BHC	0.0990	0.114		ug/L		115	50 - 150
Bis(2-ethylhexyl) phthalate	0.594	0.667		ug/L		112	50 - 150
Bromacil	0.0990	0.115		ug/L		116	50 - 150
Butachlor	0.0495	0.0666		ug/L		135	50 - 150
Butylbenzylphthalate	0.495	0.589		ug/L		119	50 - 150
Chlorobenzilate	0.0990	0.113		ug/L		114	50 - 150
Chloroneb	0.0990	0.113		ug/L		114	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0990	0.102		ug/L		103	50 - 150
Chlorpyrifos	0.0495	0.0588		ug/L		119	50 - 150
Chrysene	0.0198	0.0220		ug/L		111	50 - 150
delta-BHC	0.0990	0.0962	J	ug/L		97	50 - 150
Di(2-ethylhexyl)adipate	0.594	0.703		ug/L		118	50 - 150
Dibenz(a,h)anthracene	0.0495	0.0485	J	ug/L		98	50 - 150
Diclorvos (DDVP)	0.0495	0.0580		ug/L		117	50 - 150
Dieldrin	0.00990	0.0111		ug/L		112	50 - 150
Diethylphthalate	0.495	0.539		ug/L		109	50 - 150
Dimethylphthalate	0.495	0.533		ug/L		108	50 - 150
Di-n-butyl phthalate	0.495	0.607	J	ug/L		123	49 - 243
Di-n-octyl phthalate	0.0990	0.115		ug/L		117	50 - 150
Endosulfan I (Alpha)	0.0990	0.0912	J	ug/L		92	50 - 150
Endosulfan II (Beta)	0.0990	0.0979	J	ug/L		99	50 - 150
Endosulfan sulfate	0.0990	0.115		ug/L		116	50 - 150
Endrin	0.00990	0.00953	J	ug/L		96	50 - 150
Endrin aldehyde	0.0990	0.111		ug/L		112	50 - 150
EPTC	0.0990	0.102		ug/L		103	50 - 150
Fluoranthene	0.0990	0.0993		ug/L		100	50 - 150
Fluorene	0.0495	0.0514		ug/L		104	50 - 150
gamma-Chlordane	0.0248	0.0262	J	ug/L		106	50 - 150
Heptachlor	0.00990	0.0103		ug/L		104	50 - 150
Heptachlor epoxide (isomer B)	0.00990	0.0115		ug/L		116	50 - 150
Hexachlorobenzene	0.0495	0.0490	J	ug/L		99	50 - 150
Hexachlorocyclopentadiene	0.0495	0.0551		ug/L		111	50 - 150
Indeno[1,2,3-cd]pyrene	0.0495	0.0561		ug/L		113	50 - 150
Isophorone	0.0990	0.118		ug/L		120	50 - 150
Lindane	0.00990	0.0114		ug/L		116	50 - 150
Malathion	0.0990	0.113		ug/L		114	50 - 150
Methoxychlor	0.0495	0.0705		ug/L		142	50 - 150

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# QC Sample Results

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

Job ID: 380-193800-1  
SDG: Weekly: Halawa Wells Units 1&2 P1

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

**Lab Sample ID: MRL 380-200931/22-A**  
**Matrix: Water**  
**Analysis Batch: 201255**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 200931**

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Metolachlor	0.0495	0.0609		ug/L		123	50 - 150
Molinate	0.0990	0.110		ug/L		111	50 - 150
Naphthalene	0.0990	0.122		ug/L		123	50 - 150
Parathion	0.0990	0.106		ug/L		107	50 - 150
Pendimethalin (Penoxaline)	0.0990	0.108		ug/L		109	50 - 150
Phenanthrene	0.0396	0.0401		ug/L		101	50 - 150
Propachlor	0.0495	0.0571		ug/L		115	50 - 150
Pyrene	0.0495	0.0506		ug/L		102	50 - 150
Simazine	0.0495	0.0471	J	ug/L		95	50 - 150
Terbacil	0.0990	0.107		ug/L		108	50 - 150
Terbutylazine	0.0990	0.112		ug/L		113	50 - 150
Thiobencarb	0.0990	0.113		ug/L		114	50 - 150
trans-Nonachlor	0.0248	0.0302	J	ug/L		122	50 - 150
Trifluralin	0.0990	0.111		ug/L		112	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
2-Nitro-m-xylene	97		70 - 130
Perylene-d12	91		70 - 130
Triphenylphosphate	104		70 - 130

**Lab Sample ID: 380-193902-B-1-A MS**  
**Matrix: Water**  
**Analysis Batch: 201255**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 200931**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.096		1.93	1.84		ug/L		95	70 - 130
2,4'-DDD	<0.096		1.93	2.07		ug/L		107	70 - 130
2,4'-DDE	<0.096		1.93	2.12		ug/L		110	70 - 130
2,4'-DDT	<0.096		1.93	1.92		ug/L		100	70 - 130
2,4-Dinitrotoluene	<0.096		1.93	2.12		ug/L		110	70 - 130
2,6-Dinitrotoluene	<0.096		1.93	2.00		ug/L		103	70 - 130
2-Methylnaphthalene	<0.096		1.93	1.89		ug/L		98	70 - 130
4,4'-DDD	<0.096		1.93	1.97		ug/L		102	70 - 130
4,4'-DDE	<0.096		1.93	2.09		ug/L		108	70 - 130
4,4'-DDT	<0.096		1.93	1.95		ug/L		101	70 - 130
Acenaphthene	<0.096		1.93	1.96		ug/L		102	70 - 130
Acenaphthylene	<0.096		1.93	2.08		ug/L		108	70 - 130
Acetochlor	<0.096		1.93	2.12		ug/L		110	70 - 130
Alachlor	<0.048		1.93	2.14		ug/L		111	70 - 130
alpha-BHC	<0.096		1.93	1.98		ug/L		102	70 - 130
alpha-Chlordane	<0.048		1.93	1.95		ug/L		100	70 - 130
Anthracene	<0.019		1.93	1.89		ug/L		98	70 - 130
Atrazine	<0.048		1.93	2.25		ug/L		116	70 - 130
Benz(a)anthracene	<0.048		1.93	2.02		ug/L		105	70 - 130
Benzo[a]pyrene	<0.019		1.93	2.22		ug/L		115	70 - 130
Benzo[b]fluoranthene	<0.019		1.93	2.13		ug/L		110	70 - 130
Benzo[g,h,i]perylene	<0.048		1.93	1.90		ug/L		98	70 - 130
Benzo[k]fluoranthene	<0.019		1.93	1.96		ug/L		102	70 - 130

# QC Sample Results

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

Job ID: 380-193800-1  
SDG: Weekly: Halawa Wells Units 1&2 P1

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

**Lab Sample ID: 380-193902-B-1-A MS**  
**Matrix: Water**  
**Analysis Batch: 201255**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 200931**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
beta-BHC	<0.096		1.93	1.98		ug/L		103	70 - 130
Bis(2-ethylhexyl) phthalate	<0.58		1.93	2.02		ug/L		105	70 - 130
Bromacil	<0.096		1.93	1.90		ug/L		96	70 - 130
Butachlor	<0.048		1.93	2.06		ug/L		107	70 - 130
Butylbenzylphthalate	<0.48		1.93	2.17		ug/L		113	70 - 130
Chlorobenzilate	<0.096		1.93	2.02		ug/L		105	70 - 130
Chloroneb	<0.096		1.93	2.01		ug/L		104	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.096		1.93	1.98		ug/L		103	70 - 130
Chlorpyrifos	<0.048		1.93	2.12		ug/L		110	70 - 130
Chrysene	<0.019		1.93	1.94		ug/L		100	70 - 130
delta-BHC	<0.096		1.93	1.90		ug/L		99	70 - 130
Di(2-ethylhexyl)adipate	<0.58		1.93	2.15		ug/L		111	70 - 130
Dibenz(a,h)anthracene	<0.048		1.93	2.03		ug/L		105	70 - 130
Diclorvos (DDVP)	<0.048		1.93	2.14		ug/L		111	70 - 130
Dieldrin	0.076		1.93	2.09		ug/L		104	70 - 130
Diethylphthalate	<0.48		1.93	2.09		ug/L		108	70 - 130
Dimethylphthalate	<0.48		1.93	2.06		ug/L		107	70 - 130
Di-n-butyl phthalate	<0.96		3.86	4.27		ug/L		111	70 - 130
Di-n-octyl phthalate	<0.096		1.93	1.96		ug/L		101	70 - 130
Endosulfan I (Alpha)	<0.096		1.93	1.93		ug/L		100	70 - 130
Endosulfan II (Beta)	<0.096		1.93	1.98		ug/L		103	70 - 130
Endosulfan sulfate	<0.096		1.93	1.90		ug/L		99	70 - 130
Endrin	<0.0096		1.93	2.14		ug/L		111	70 - 130
Endrin aldehyde	<0.096		1.93	1.80		ug/L		93	60 - 130
EPTC	<0.096		1.93	2.04		ug/L		106	70 - 130
Fluoranthene	<0.096		1.93	2.09		ug/L		108	70 - 130
Fluorene	<0.048		1.93	2.03		ug/L		105	70 - 130
gamma-Chlordane	<0.048		1.93	1.94		ug/L		100	70 - 130
Heptachlor	<0.0096		1.93	2.13		ug/L		110	70 - 130
Heptachlor epoxide (isomer B)	0.012		1.93	2.00		ug/L		103	70 - 130
Hexachlorobenzene	<0.048		1.93	1.96		ug/L		102	70 - 130
Hexachlorocyclopentadiene	<0.048		1.93	1.95		ug/L		101	70 - 130
Indeno[1,2,3-cd]pyrene	<0.048		1.93	2.01		ug/L		104	70 - 130
Isophorone	<0.096		1.93	1.94		ug/L		100	70 - 130
Lindane	<0.0096		1.93	2.06		ug/L		107	70 - 130
Malathion	<0.096		1.93	2.02		ug/L		105	70 - 130
Methoxychlor	<0.048		1.93	2.03		ug/L		105	70 - 130
Metolachlor	<0.048		1.93	2.01		ug/L		104	70 - 130
Molinate	<0.096		1.93	2.09		ug/L		108	70 - 130
Naphthalene	<0.096		1.93	1.82		ug/L		94	70 - 130
Parathion	<0.096		1.93	2.07		ug/L		107	70 - 130
Pendimethalin (Penoxaline)	<0.096		1.93	1.92		ug/L		100	70 - 130
Phenanthrene	<0.038		1.93	1.79		ug/L		93	70 - 130
Propachlor	<0.048		1.93	2.15		ug/L		112	70 - 130
Pyrene	<0.048		1.93	2.09		ug/L		108	70 - 130
Simazine	<0.048		1.93	2.22		ug/L		115	70 - 130
Terbacil	<0.096		1.93	1.90		ug/L		98	70 - 130
Terbutylazine	<0.096		1.93	2.27		ug/L		118	70 - 130
Thiobencarb	<0.096		1.93	2.17		ug/L		113	70 - 130

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# QC Sample Results

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

Job ID: 380-193800-1  
SDG: Weekly: Halawa Wells Units 1&2 P1

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

**Lab Sample ID: 380-193902-B-1-A MS**  
**Matrix: Water**  
**Analysis Batch: 201255**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 200931**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
trans-Nonachlor	<0.048		1.93	1.93		ug/L		99	70 - 130
Trifluralin	<0.096		1.93	1.98		ug/L		103	70 - 130

Surrogate	MS %Recovery	MS Qualifier	MS Limits
2-Nitro-m-xylene	96		70 - 130
Perylene-d12	99		70 - 130
Triphenylphosphate	105		70 - 130

**Lab Sample ID: 380-193911-B-1-A DU**  
**Matrix: Water**  
**Analysis Batch: 201255**

**Client Sample ID: Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 200931**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
1-Methylnaphthalene	<0.096		<0.097		ug/L		NC	20
2,4'-DDD	<0.096		<0.097		ug/L		NC	20
2,4'-DDE	<0.096		<0.097		ug/L		NC	20
2,4'-DDT	<0.096		<0.097		ug/L		NC	20
2,4-Dinitrotoluene	<0.096		<0.097		ug/L		NC	20
2,6-Dinitrotoluene	<0.096		<0.097		ug/L		NC	20
2-Methylnaphthalene	<0.096		<0.097		ug/L		NC	20
4,4'-DDD	<0.096		<0.097		ug/L		NC	20
4,4'-DDE	<0.096		<0.097		ug/L		NC	20
4,4'-DDT	<0.096		<0.097		ug/L		NC	20
Acenaphthene	<0.096		<0.097		ug/L		NC	20
Acenaphthylene	<0.096		<0.097		ug/L		NC	20
Acetochlor	<0.096		<0.097		ug/L		NC	20
Alachlor	<0.048		<0.048		ug/L		NC	20
alpha-BHC	<0.096		<0.097		ug/L		NC	20
alpha-Chlordane	<0.048		<0.048		ug/L		NC	20
Anthracene	<0.019		<0.019		ug/L		NC	20
Atrazine	<0.048		<0.048		ug/L		NC	20
Benz(a)anthracene	<0.048		<0.048		ug/L		NC	20
Benzo[a]pyrene	<0.019		<0.019		ug/L		NC	20
Benzo[b]fluoranthene	<0.019		<0.019		ug/L		NC	20
Benzo[g,h,i]perylene	<0.048		<0.048		ug/L		NC	20
Benzo[k]fluoranthene	<0.019		<0.019		ug/L		NC	20
beta-BHC	<0.096		<0.097		ug/L		NC	20
Bis(2-ethylhexyl) phthalate	<0.58		<0.58		ug/L		NC	20
Bromacil	<0.096		<0.097		ug/L		NC	20
Butachlor	<0.048		<0.048		ug/L		NC	20
Butylbenzylphthalate	<0.48		<0.48		ug/L		NC	20
Chlorobenzilate	<0.096		<0.097		ug/L		NC	20
Chloroneb	<0.096		<0.097		ug/L		NC	20
Chlorothalonil (Draconil, Bravo)	<0.096		<0.097		ug/L		NC	20
Chlorpyrifos	<0.048		<0.048		ug/L		NC	20
Chrysene	<0.019		<0.019		ug/L		NC	20
delta-BHC	<0.096		<0.097		ug/L		NC	20
Di(2-ethylhexyl)adipate	<0.58		<0.58		ug/L		NC	20

# QC Sample Results

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

Job ID: 380-193800-1  
SDG: Weekly: Halawa Wells Units 1&2 P1

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

**Lab Sample ID: 380-193911-B-1-A DU**  
**Matrix: Water**  
**Analysis Batch: 201255**

**Client Sample ID: Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 200931**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Dibenz(a,h)anthracene	<0.048		<0.048		ug/L		NC	20
Diclorvos (DDVP)	<0.048		<0.048		ug/L		NC	20
Dieldrin	0.079		0.0811		ug/L		3	20
Diethylphthalate	<0.48		<0.48		ug/L		NC	20
Dimethylphthalate	<0.48		<0.48		ug/L		NC	20
Di-n-butyl phthalate	<0.96		<0.97		ug/L		NC	20
Di-n-octyl phthalate	<0.096		<0.097		ug/L		NC	20
Endosulfan I (Alpha)	<0.096		<0.097		ug/L		NC	20
Endosulfan II (Beta)	<0.096		<0.097		ug/L		NC	20
Endosulfan sulfate	<0.096		<0.097		ug/L		NC	20
Endrin	<0.0096		<0.0097		ug/L		NC	20
Endrin aldehyde	<0.096		<0.097		ug/L		NC	20
EPTC	<0.096		<0.097		ug/L		NC	20
Fluoranthene	<0.096		<0.097		ug/L		NC	20
Fluorene	<0.048		<0.048		ug/L		NC	20
gamma-Chlordane	<0.048		<0.048		ug/L		NC	20
Heptachlor	<0.0096		<0.0097		ug/L		NC	20
Heptachlor epoxide (isomer B)	0.012		0.0130		ug/L		7	20
Hexachlorobenzene	<0.048		<0.048		ug/L		NC	20
Hexachlorocyclopentadiene	<0.048		<0.048		ug/L		NC	20
Indeno[1,2,3-cd]pyrene	<0.048		<0.048		ug/L		NC	20
Isophorone	<0.096		<0.097		ug/L		NC	20
Lindane	<0.0096		<0.0097		ug/L		NC	20
Malathion	<0.096		<0.097		ug/L		NC	20
Methoxychlor	<0.048		<0.048		ug/L		NC	20
Metolachlor	<0.048		<0.048		ug/L		NC	20
Molinate	<0.096		<0.097		ug/L		NC	20
Naphthalene	<0.096		<0.097		ug/L		NC	20
Parathion	<0.096		<0.097		ug/L		NC	20
Pendimethalin (Penoxaline)	<0.096		<0.097		ug/L		NC	20
Phenanthrene	<0.038		<0.039		ug/L		NC	20
Propachlor	<0.048		<0.048		ug/L		NC	20
Pyrene	<0.048		<0.048		ug/L		NC	20
Simazine	<0.048		<0.048		ug/L		NC	20
Terbacil	<0.096		<0.097		ug/L		NC	20
Terbutylazine	<0.096		<0.097		ug/L		NC	20
Thiobencarb	<0.096		<0.097		ug/L		NC	20
Total Permethrin (mixed isomers)	<0.19		<0.19		ug/L		NC	20
trans-Nonachlor	<0.048		<0.048		ug/L		NC	20
Trifluralin	<0.096		<0.097		ug/L		NC	20

Surrogate	DU %Recovery	DU Qualifier	Limits
2-Nitro-m-xylene	96		70 - 130
Perylene-d12	89		70 - 130
Triphenylphosphate	105		70 - 130

# QC Sample Results

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

Job ID: 380-193800-1  
SDG: Weekly: Halawa Wells Units 1&2 P1

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

**Lab Sample ID: MB 570-686409/1-A**  
**Matrix: Water**  
**Analysis Batch: 691586**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 686409**

<i>Tentatively Identified Compound</i>	<i>Est. Result</i>	<i>MB MB Qualifier</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>	<i>None</i>		<i>ug/L</i>			<i>N/A</i>	<i>01/23/26 19:03</i>	<i>02/04/26 22:10</i>	<i>1</i>
<i>Surrogate</i>	<i>%Recovery</i>	<i>MB MB Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>2,4,6-Tribromophenol (Surr)</i>	98		33 - 139				<i>01/23/26 19:03</i>	<i>02/04/26 22:10</i>	<i>1</i>
<i>2-Fluorobiphenyl (Surr)</i>	95		33 - 126				<i>01/23/26 19:03</i>	<i>02/04/26 22:10</i>	<i>1</i>
<i>2-Fluorophenol (Surr)</i>	73		12 - 120				<i>01/23/26 19:03</i>	<i>02/04/26 22:10</i>	<i>1</i>
<i>Nitrobenzene-d5 (Surr)</i>	86		36 - 120				<i>01/23/26 19:03</i>	<i>02/04/26 22:10</i>	<i>1</i>
<i>Phenol-d6 (Surr)</i>	37		10 - 120				<i>01/23/26 19:03</i>	<i>02/04/26 22:10</i>	<i>1</i>
<i>p-Terphenyl-d14 (Surr)</i>	102		47 - 131				<i>01/23/26 19:03</i>	<i>02/04/26 22:10</i>	<i>1</i>

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

**Lab Sample ID: MB 570-686409/1-A**  
**Matrix: Water**  
**Analysis Batch: 689715**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 686409**

<i>Analyte</i>	<i>Result</i>	<i>MB MB Qualifier</i>	<i>RL</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>1-Methylnaphthalene</i>	<0.20		0.20	ug/L		<i>01/23/26 19:03</i>	<i>02/01/26 13:51</i>	<i>1</i>
<i>2-Methylnaphthalene</i>	<0.20		0.20	ug/L		<i>01/23/26 19:03</i>	<i>02/01/26 13:51</i>	<i>1</i>
<i>Acenaphthene</i>	<0.20		0.20	ug/L		<i>01/23/26 19:03</i>	<i>02/01/26 13:51</i>	<i>1</i>
<i>Acenaphthylene</i>	<0.20		0.20	ug/L		<i>01/23/26 19:03</i>	<i>02/01/26 13:51</i>	<i>1</i>
<i>Anthracene</i>	<0.20		0.20	ug/L		<i>01/23/26 19:03</i>	<i>02/01/26 13:51</i>	<i>1</i>
<i>Benzo[a]anthracene</i>	<0.20		0.20	ug/L		<i>01/23/26 19:03</i>	<i>02/01/26 13:51</i>	<i>1</i>
<i>Benzo[a]pyrene</i>	<0.20		0.20	ug/L		<i>01/23/26 19:03</i>	<i>02/01/26 13:51</i>	<i>1</i>
<i>Benzo[b]fluoranthene</i>	<0.20		0.20	ug/L		<i>01/23/26 19:03</i>	<i>02/01/26 13:51</i>	<i>1</i>
<i>Benzo[g,h,i]perylene</i>	<0.20		0.20	ug/L		<i>01/23/26 19:03</i>	<i>02/01/26 13:51</i>	<i>1</i>
<i>Benzo[k]fluoranthene</i>	<0.20		0.20	ug/L		<i>01/23/26 19:03</i>	<i>02/01/26 13:51</i>	<i>1</i>
<i>Chrysene</i>	<0.20		0.20	ug/L		<i>01/23/26 19:03</i>	<i>02/01/26 13:51</i>	<i>1</i>
<i>Dibenz(a,h)anthracene</i>	<0.20		0.20	ug/L		<i>01/23/26 19:03</i>	<i>02/01/26 13:51</i>	<i>1</i>
<i>Fluoranthene</i>	<0.20		0.20	ug/L		<i>01/23/26 19:03</i>	<i>02/01/26 13:51</i>	<i>1</i>
<i>Fluorene</i>	<0.20		0.20	ug/L		<i>01/23/26 19:03</i>	<i>02/01/26 13:51</i>	<i>1</i>
<i>Indeno[1,2,3-cd]pyrene</i>	<0.20		0.20	ug/L		<i>01/23/26 19:03</i>	<i>02/01/26 13:51</i>	<i>1</i>
<i>Naphthalene</i>	<0.20		0.20	ug/L		<i>01/23/26 19:03</i>	<i>02/01/26 13:51</i>	<i>1</i>
<i>Phenanthrene</i>	<0.20		0.20	ug/L		<i>01/23/26 19:03</i>	<i>02/01/26 13:51</i>	<i>1</i>
<i>Pyrene</i>	<0.20		0.20	ug/L		<i>01/23/26 19:03</i>	<i>02/01/26 13:51</i>	<i>1</i>
<i>Surrogate</i>	<i>%Recovery</i>	<i>MB MB Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>2,4,6-Tribromophenol (Surr)</i>	97		28 - 127			<i>01/23/26 19:03</i>	<i>02/01/26 13:51</i>	<i>1</i>
<i>2-Fluorobiphenyl (Surr)</i>	87		31 - 120			<i>01/23/26 19:03</i>	<i>02/01/26 13:51</i>	<i>1</i>
<i>2-Fluorophenol (Surr)</i>	59		17 - 120			<i>01/23/26 19:03</i>	<i>02/01/26 13:51</i>	<i>1</i>
<i>Nitrobenzene-d5 (Surr)</i>	89		27 - 120			<i>01/23/26 19:03</i>	<i>02/01/26 13:51</i>	<i>1</i>
<i>Phenol-d6 (Surr)</i>	37		10 - 120			<i>01/23/26 19:03</i>	<i>02/01/26 13:51</i>	<i>1</i>
<i>p-Terphenyl-d14 (Surr)</i>	82		45 - 120			<i>01/23/26 19:03</i>	<i>02/01/26 13:51</i>	<i>1</i>

# QC Sample Results

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

Job ID: 380-193800-1  
SDG: Weekly: Halawa Wells Units 1&2 P1

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

**Lab Sample ID: LCS 570-686409/2-A**  
**Matrix: Water**  
**Analysis Batch: 689715**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 686409**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	20.0	21.2		ug/L		106	47 - 120
2-Methylnaphthalene	20.0	20.4		ug/L		102	43 - 120
Acenaphthene	20.0	20.2		ug/L		101	60 - 132
Acenaphthylene	20.0	19.6		ug/L		98	54 - 126
Anthracene	20.0	20.5		ug/L		102	43 - 120
Benzo[a]anthracene	20.0	21.6		ug/L		108	42 - 133
Benzo[a]pyrene	20.0	21.1		ug/L		105	32 - 148
Benzo[b]fluoranthene	20.0	21.4		ug/L		107	42 - 140
Benzo[g,h,i]perylene	20.0	20.4		ug/L		102	1 - 195
Benzo[k]fluoranthene	20.0	20.6		ug/L		103	25 - 146
Chrysene	20.0	21.2		ug/L		106	44 - 140
Dibenz(a,h)anthracene	20.0	21.5		ug/L		107	1 - 200
Fluoranthene	20.0	20.8		ug/L		104	43 - 121
Fluorene	20.0	19.6		ug/L		98	70 - 120
Indeno[1,2,3-cd]pyrene	20.0	21.7		ug/L		108	1 - 151
Naphthalene	20.0	20.7		ug/L		103	36 - 120
Phenanthrene	20.0	21.0		ug/L		105	65 - 120
Pyrene	20.0	22.7		ug/L		113	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	105		28 - 127
2-Fluorobiphenyl (Surr)	88		31 - 120
2-Fluorophenol (Surr)	69		17 - 120
Nitrobenzene-d5 (Surr)	96		27 - 120
Phenol-d6 (Surr)	44		10 - 120
p-Terphenyl-d14 (Surr)	99		45 - 120

**Lab Sample ID: LCSD 570-686409/3-A**  
**Matrix: Water**  
**Analysis Batch: 689715**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 686409**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	20.0	18.8		ug/L		94	47 - 120	12	20
2-Methylnaphthalene	20.0	18.3		ug/L		91	43 - 120	11	20
Acenaphthene	20.0	18.4		ug/L		92	60 - 132	9	29
Acenaphthylene	20.0	17.8		ug/L		89	54 - 126	10	45
Anthracene	20.0	19.5		ug/L		97	43 - 120	5	40
Benzo[a]anthracene	20.0	20.2		ug/L		101	42 - 133	7	32
Benzo[a]pyrene	20.0	20.0		ug/L		100	32 - 148	5	43
Benzo[b]fluoranthene	20.0	19.7		ug/L		99	42 - 140	8	43
Benzo[g,h,i]perylene	20.0	19.1		ug/L		96	1 - 195	7	61
Benzo[k]fluoranthene	20.0	19.5		ug/L		97	25 - 146	6	38
Chrysene	20.0	19.9		ug/L		100	44 - 140	6	53
Dibenz(a,h)anthracene	20.0	20.4		ug/L		102	1 - 200	5	75
Fluoranthene	20.0	20.4		ug/L		102	43 - 121	2	40
Fluorene	20.0	18.5		ug/L		93	70 - 120	6	23
Indeno[1,2,3-cd]pyrene	20.0	20.2		ug/L		101	1 - 151	7	60
Naphthalene	20.0	17.7		ug/L		89	36 - 120	15	39

Eurofins Pomona

# QC Sample Results

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

Job ID: 380-193800-1  
SDG: Weekly: Halawa Wells Units 1&2 P1

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

**Lab Sample ID: LCSD 570-686409/3-A**  
**Matrix: Water**  
**Analysis Batch: 689715**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 686409**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenanthrene	20.0	19.6		ug/L		98	65 - 120	7	24
Pyrene	20.0	20.8		ug/L		104	70 - 120	9	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
2,4,6-Tribromophenol (Surr)	95		28 - 127
2-Fluorobiphenyl (Surr)	80		31 - 120
2-Fluorophenol (Surr)	58		17 - 120
Nitrobenzene-d5 (Surr)	82		27 - 120
Phenol-d6 (Surr)	38		10 - 120
p-Terphenyl-d14 (Surr)	91		45 - 120

**Lab Sample ID: 570-264273-D-1-A MS**  
**Matrix: Water**  
**Analysis Batch: 690589**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 686409**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.20		20.0	21.8		ug/L		109	36 - 120
2-Methylnaphthalene	<0.20		20.0	21.5		ug/L		107	32 - 124
Acenaphthene	<0.20		20.0	19.8		ug/L		99	47 - 145
Acenaphthylene	<0.20		20.0	20.2		ug/L		101	33 - 145
Anthracene	<0.20		20.0	21.0		ug/L		105	27 - 133
Benzo[a]anthracene	<0.20		20.0	22.0		ug/L		110	33 - 143
Benzo[a]pyrene	0.20		20.0	20.3		ug/L		101	17 - 163
Benzo[b]fluoranthene	<0.20		20.0	21.1		ug/L		105	24 - 159
Benzo[g,h,i]perylene	0.34		20.0	19.2		ug/L		95	1 - 219
Benzo[k]fluoranthene	<0.20		20.0	20.3		ug/L		101	11 - 162
Chrysene	<0.20		20.0	20.4		ug/L		102	17 - 168
Dibenz(a,h)anthracene	0.28		20.0	20.6		ug/L		102	1 - 227
Fluoranthene	<0.20		20.0	22.0		ug/L		110	26 - 137
Fluorene	<0.20		20.0	20.3		ug/L		102	59 - 121
Indeno[1,2,3-cd]pyrene	0.36		20.0	21.7		ug/L		107	1 - 171
Naphthalene	<0.20		20.0	19.7		ug/L		99	21 - 133
Phenanthrene	<0.20		20.0	20.4		ug/L		102	54 - 120
Pyrene	<0.20		20.0	21.3		ug/L		107	52 - 120

Surrogate	MS %Recovery	MS Qualifier	MS Limits
2,4,6-Tribromophenol (Surr)	102		28 - 127
2-Fluorobiphenyl (Surr)	91		31 - 120
2-Fluorophenol (Surr)	68		17 - 120
Nitrobenzene-d5 (Surr)	101		27 - 120
Phenol-d6 (Surr)	44		10 - 120
p-Terphenyl-d14 (Surr)	93		45 - 120

# QC Sample Results

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

Job ID: 380-193800-1  
SDG: Weekly: Halawa Wells Units 1&2 P1

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

**Lab Sample ID: 570-264273-F-1-A MSD**  
**Matrix: Water**  
**Analysis Batch: 690589**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 686409**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec		RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD		
1-Methylnaphthalene	<0.20		19.9	18.6		ug/L		94	36 - 120	15	30	
2-Methylnaphthalene	<0.20		19.9	18.8		ug/L		94	32 - 124	13	30	
Acenaphthene	<0.20		19.9	16.9		ug/L		85	47 - 145	16	48	
Acenaphthylene	<0.20		19.9	16.9		ug/L		85	33 - 145	18	74	
Anthracene	<0.20		19.9	17.5		ug/L		88	27 - 133	18	66	
Benzo[a]anthracene	<0.20		19.9	18.0		ug/L		91	33 - 143	20	53	
Benzo[a]pyrene	0.20		19.9	15.4		ug/L		76	17 - 163	28	72	
Benzo[b]fluoranthene	<0.20		19.9	16.5		ug/L		82	24 - 159	24	71	
Benzo[g,h,i]perylene	0.34		19.9	15.4		ug/L		76	1 - 219	22	97	
Benzo[k]fluoranthene	<0.20		19.9	15.6		ug/L		78	11 - 162	26	63	
Chrysene	<0.20		19.9	16.6		ug/L		83	17 - 168	21	87	
Dibenz(a,h)anthracene	0.28		19.9	16.7		ug/L		83	1 - 227	21	126	
Fluoranthene	<0.20		19.9	17.4		ug/L		87	26 - 137	24	66	
Fluorene	<0.20		19.9	17.0		ug/L		86	59 - 121	18	38	
Indeno[1,2,3-cd]pyrene	0.36		19.9	17.5		ug/L		86	1 - 171	22	99	
Naphthalene	<0.20		19.9	17.5		ug/L		88	21 - 133	12	65	
Phenanthrene	<0.20		19.9	16.9		ug/L		85	54 - 120	19	39	
Pyrene	<0.20		19.9	18.1		ug/L		91	52 - 120	16	49	

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	85		28 - 127
2-Fluorobiphenyl (Surr)	77		31 - 120
2-Fluorophenol (Surr)	60		17 - 120
Nitrobenzene-d5 (Surr)	85		27 - 120
Phenol-d6 (Surr)	39		10 - 120
p-Terphenyl-d14 (Surr)	79		45 - 120

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

**Lab Sample ID: MB 570-687650/5**  
**Matrix: Water**  
**Analysis Batch: 687650**

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

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
GRO (C6-C10)	<10		10	ug/L			01/27/26 14:47	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		38 - 134		01/27/26 14:47	1

**Lab Sample ID: LCS 570-687650/3**  
**Matrix: Water**  
**Analysis Batch: 687650**

**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	413		ug/L		103	78 - 120

# QC Sample Results

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

Job ID: 380-193800-1  
SDG: Weekly: Halawa Wells Units 1&2 P1

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

**Lab Sample ID: LCS 570-687650/3**  
**Matrix: Water**  
**Analysis Batch: 687650**

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

<i>Surrogate</i>	<i>LCS</i> <i>%Recovery</i>	<i>LCS</i> <i>Qualifier</i>	<i>Limits</i>
4-Bromofluorobenzene (Surr)	86		38 - 134

**Lab Sample ID: LCSD 570-687650/4**  
**Matrix: Water**  
**Analysis Batch: 687650**

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

<i>Analyte</i>	<i>Spike</i> <i>Added</i>	<i>LCSD</i> <i>Result</i>	<i>LCSD</i> <i>Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec</i> <i>Limits</i>	<i>RPD</i>	<i>RPD</i> <i>Limit</i>
Gasoline Range Organics (C4-C13)	400	432		ug/L		108	78 - 120	4	10

<i>Surrogate</i>	<i>LCSD</i> <i>%Recovery</i>	<i>LCSD</i> <i>Qualifier</i>	<i>Limits</i>
4-Bromofluorobenzene (Surr)	93		38 - 134

**Lab Sample ID: MRL 570-687650/6**  
**Matrix: Water**  
**Analysis Batch: 687650**

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

<i>Analyte</i>	<i>Spike</i> <i>Added</i>	<i>MRL</i> <i>Result</i>	<i>MRL</i> <i>Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec</i> <i>Limits</i>
Gasoline Range Organics (C4-C13)	10.0	<7.9		ug/L		68	50 - 150

<i>Surrogate</i>	<i>MRL</i> <i>%Recovery</i>	<i>MRL</i> <i>Qualifier</i>	<i>Limits</i>
4-Bromofluorobenzene (Surr)	86		38 - 134

**Lab Sample ID: 380-193582-X-1 MS**  
**Matrix: Water**  
**Analysis Batch: 687650**

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

<i>Analyte</i>	<i>Sample</i> <i>Result</i>	<i>Sample</i> <i>Qualifier</i>	<i>Spike</i> <i>Added</i>	<i>MS</i> <i>Result</i>	<i>MS</i> <i>Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec</i> <i>Limits</i>
Gasoline Range Organics (C4-C13)	<10		400	383		ug/L		96	68 - 122

<i>Surrogate</i>	<i>MS</i> <i>%Recovery</i>	<i>MS</i> <i>Qualifier</i>	<i>Limits</i>
4-Bromofluorobenzene (Surr)	97		38 - 134

**Lab Sample ID: 380-193582-Y-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 687650**

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

<i>Analyte</i>	<i>Sample</i> <i>Result</i>	<i>Sample</i> <i>Qualifier</i>	<i>Spike</i> <i>Added</i>	<i>MSD</i> <i>Result</i>	<i>MSD</i> <i>Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec</i> <i>Limits</i>	<i>RPD</i>	<i>RPD</i> <i>Limit</i>
Gasoline Range Organics (C4-C13)	<10		400	407		ug/L		102	68 - 122	6	18

<i>Surrogate</i>	<i>MSD</i> <i>%Recovery</i>	<i>MSD</i> <i>Qualifier</i>	<i>Limits</i>
4-Bromofluorobenzene (Surr)	92		38 - 134

# QC Sample Results

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

Job ID: 380-193800-1  
SDG: Weekly: Halawa Wells Units 1&2 P1

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

**Lab Sample ID: MB 570-686737/1-A**  
**Matrix: Water**  
**Analysis Batch: 688261**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 686737**

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Diesel Range Organics (C10-C24)	<25		25	ug/L		01/25/26 10:37	01/28/26 15:05	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		01/25/26 10:37	01/28/26 15:05	1
C8-C18	<25		25	ug/L		01/25/26 10:37	01/28/26 15:05	1
Surrogate	MB MB		Limits			Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier						
<i>n-Octacosane (Surr)</i>	117		60 - 130			01/25/26 10:37	01/28/26 15:05	1

**Lab Sample ID: LCS 570-686737/2-A**  
**Matrix: Water**  
**Analysis Batch: 688261**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 686737**

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
C10-C28	1600	1030		ug/L		64	56 - 127
Surrogate	LCS LCS		Limits			%Rec	
	%Recovery	Qualifier					
<i>n-Octacosane (Surr)</i>	92		60 - 130				

**Lab Sample ID: LCSD 570-686737/3-A**  
**Matrix: Water**  
**Analysis Batch: 688261**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 686737**

Analyte	Spike Added	LCSD LCSD		Unit	D	%Rec	%Rec Limits	RPD	
		Result	Qualifier					RPD	Limit
C10-C28	1600	1120		ug/L		70	56 - 127	8	23
Surrogate	LCSD LCSD		Limits			%Rec			
	%Recovery	Qualifier							
<i>n-Octacosane (Surr)</i>	102		60 - 130						

**Lab Sample ID: MRL 570-686737/4-A**  
**Matrix: Water**  
**Analysis Batch: 688261**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 686737**

Analyte	Spike Added	MRL MRL		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
C10-C28	0.0200	0.0281		mg/L		141	50 - 150
Surrogate	MRL MRL		Limits			%Rec	
	%Recovery	Qualifier					
<i>n-Octacosane (Surr)</i>	121		60 - 130				

**Lab Sample ID: 380-194233-C-1-A MS**  
**Matrix: Water**  
**Analysis Batch: 688261**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 686737**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec Limits
				Result	Qualifier				
C10-C28	<26		1630	1430		ug/L		88	70 - 130
Surrogate	MS MS		Limits					%Rec	
	%Recovery	Qualifier							
<i>n-Octacosane (Surr)</i>	120		60 - 130						

# QC Sample Results

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

Job ID: 380-193800-1  
 SDG: Weekly: Halawa Wells Units 1&2 P1

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

**Lab Sample ID: 380-194233-D-1-A MSD**  
**Matrix: Water**  
**Analysis Batch: 688261**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 686737**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28	<26		1630	1370		ug/L		84	70 - 130	4	20
<b>MSD MSD</b>											
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>								
<i>n-Octacosane (Surr)</i>	115		60 - 130								

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# QC Association Summary

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

Job ID: 380-193800-1  
SDG: Weekly: Halawa Wells Units 1&2 P1

## GC/MS Semi VOA

### Prep Batch: 200931

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-193800-1	HALAWA WELL UNITS 1 & 2 P1	Total/NA	Water	525.2	
MB 380-200931/21-A	Method Blank	Total/NA	Water	525.2	
LCS 380-200931/23-A	Lab Control Sample	Total/NA	Water	525.2	
MRL 380-200931/22-A	Lab Control Sample	Total/NA	Water	525.2	
380-193902-B-1-A MS	Matrix Spike	Total/NA	Water	525.2	
380-193911-B-1-A DU	Duplicate	Total/NA	Water	525.2	

### Analysis Batch: 201255

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-193800-1	HALAWA WELL UNITS 1 & 2 P1	Total/NA	Water	525.2	200931
MB 380-200931/21-A	Method Blank	Total/NA	Water	525.2	200931
LCS 380-200931/23-A	Lab Control Sample	Total/NA	Water	525.2	200931
MRL 380-200931/22-A	Lab Control Sample	Total/NA	Water	525.2	200931
380-193902-B-1-A MS	Matrix Spike	Total/NA	Water	525.2	200931
380-193911-B-1-A DU	Duplicate	Total/NA	Water	525.2	200931

### Prep Batch: 686409

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-193800-1	HALAWA WELL UNITS 1 & 2 P1	Total/NA	Water	625.1	
MB 570-686409/1-A	Method Blank	Total/NA	Water	625.1	
LCS 570-686409/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 570-686409/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	
570-264273-D-1-A MS	Matrix Spike	Total/NA	Water	625.1	
570-264273-F-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	625.1	

### Analysis Batch: 689715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-686409/1-A	Method Blank	Total/NA	Water	625.1 SIM	686409
LCS 570-686409/2-A	Lab Control Sample	Total/NA	Water	625.1 SIM	686409
LCSD 570-686409/3-A	Lab Control Sample Dup	Total/NA	Water	625.1 SIM	686409

### Analysis Batch: 690589

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-193800-1	HALAWA WELL UNITS 1 & 2 P1	Total/NA	Water	625.1 SIM	686409
570-264273-D-1-A MS	Matrix Spike	Total/NA	Water	625.1 SIM	686409
570-264273-F-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	625.1 SIM	686409

### Analysis Batch: 691224

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-193800-1	HALAWA WELL UNITS 1 & 2 P1	Total/NA	Water	625.1	686409

### Analysis Batch: 691586

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-686409/1-A	Method Blank	Total/NA	Water	625.1	686409

## GC VOA

### Analysis Batch: 687650

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-193800-1	HALAWA WELL UNITS 1 & 2 P1	Total/NA	Water	8015B GRO LL	
380-193800-2	TB: HALAWA WELL UNITS 1 & 2 P1	Total/NA	Water	8015B GRO LL	

Eurofins Pomona

# QC Association Summary

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

Job ID: 380-193800-1  
 SDG: Weekly: Halawa Wells Units 1&2 P1

## GC VOA (Continued)

### Analysis Batch: 687650 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-687650/5	Method Blank	Total/NA	Water	8015B GRO LL	
LCS 570-687650/3	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-687650/4	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	
MRL 570-687650/6	Lab Control Sample	Total/NA	Water	8015B GRO LL	
380-193582-X-1 MS	Matrix Spike	Total/NA	Water	8015B GRO LL	
380-193582-Y-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8015B GRO LL	

## GC Semi VOA

### Prep Batch: 686737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-193800-1	HALAWA WELL UNITS 1 & 2 P1	Total/NA	Water	3510C	
MB 570-686737/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-686737/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-686737/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-686737/4-A	Lab Control Sample	Total/NA	Water	3510C	
380-194233-C-1-A MS	Matrix Spike	Total/NA	Water	3510C	
380-194233-D-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

### Analysis Batch: 688261

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-193800-1	HALAWA WELL UNITS 1 & 2 P1	Total/NA	Water	8015B	686737
MB 570-686737/1-A	Method Blank	Total/NA	Water	8015B	686737
LCS 570-686737/2-A	Lab Control Sample	Total/NA	Water	8015B	686737
LCSD 570-686737/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	686737
MRL 570-686737/4-A	Lab Control Sample	Total/NA	Water	8015B	686737
380-194233-C-1-A MS	Matrix Spike	Total/NA	Water	8015B	686737
380-194233-D-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	8015B	686737

# Lab Chronicle

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

Job ID: 380-193800-1  
 SDG: Weekly: Halawa Wells Units 1&2 P1

**Client Sample ID: HALAWA WELL UNITS 1 & 2 P1**

**Lab Sample ID: 380-193800-1**

**Date Collected: 01/20/26 11:00**

**Matrix: Water**

**Date Received: 01/22/26 09:24**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			200931	OTM3	EA POM	01/26/26 07:48
Total/NA	Analysis	525.2		1	201255	UPAC	EA POM	01/27/26 13:33
Total/NA	Prep	625.1			686409	S4EA	EET CAL 4	01/24/26 09:00
Total/NA	Analysis	625.1		1	691224	PQS1	EET CAL 4	02/04/26 15:02
Total/NA	Prep	625.1			686409	S4EA	EET CAL 4	01/24/26 09:00
Total/NA	Analysis	625.1 SIM		1	690589	PQS1	EET CAL 4	02/03/26 15:40
Total/NA	Analysis	8015B GRO LL		1	687650	A9VE	EET CAL 4	01/27/26 18:11
Total/NA	Prep	3510C			686737	TVD6	EET CAL 4	01/25/26 10:38
Total/NA	Analysis	8015B		1	688261	NR	EET CAL 4	01/28/26 17:36

**Client Sample ID: TB: HALAWA WELL UNITS 1 & 2 P1**

**Lab Sample ID: 380-193800-2**

**Date Collected: 01/20/26 11:00**

**Matrix: Water**

**Date Received: 01/22/26 09:24**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	687650	A9VE	EET CAL 4	01/27/26 23:36

**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: 380-193800-1  
 SDG: Weekly: Halawa Wells Units 1&2 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 the governing authority. This list may include analytes for which the agency does not offer certification.

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

## Laboratory: Eurofins Calscience

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

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	7296.01	11-30-26
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 Summary

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

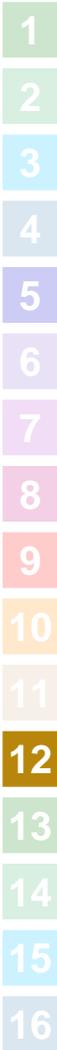
Job ID: 380-193800-1  
SDG: Weekly: Halawa Wells Units 1&2 P1

## 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	02-02-26 *
USDA	US Federal Programs	525-23-159-97150	06-08-26
Utah	NELAP	CA00111	02-28-26
Washington	State	C916	10-11-26

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



# Method Summary

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

Job ID: 380-193800-1  
SDG: Weekly: Halawa Wells Units 1&2 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: 380-193800-1  
SDG: Weekly: Halawa Wells Units 1&2 P1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
380-193800-1	HALAWA WELL UNITS 1 & 2 P1	Water	01/20/26 11:00	01/22/26 09:24	Hawaii
380-193800-2	TB: HALAWA WELL UNITS 1 & 2 P1	Water	01/20/26 11:00	01/22/26 09:24	Hawaii

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# Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-193800-1  
SDG Number: Weekly: Halawa Wells Units 1&2 P1

**Login Number: 193800**

**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.	False	IDs on containers do not match the COC. Logged in per COC.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	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: 380-193800-1  
SDG Number: Weekly: Halawa Wells Units 1&2 P1

**Login Number: 193800**

**List Number: 2**

**Creator: Khana, Piyush**

**List Source: Eurofins Calscience**

**List Creation: 01/22/26 06:28 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	1.9
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	fgf5
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	