

# ANALYTICAL REPORT

## PREPARED FOR

Attn: Mr. Erwin Kawata  
City & County of Honolulu  
630 South Beretania Street  
Public Service Bldg. Room 310  
Honolulu, Hawaii 96843

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## JOB DESCRIPTION

RED-HILL  
Weekly: Aiea Gulch Wells Pump 1  
RUSH Weekly Red Hill

## JOB NUMBER

380-201174-1

# 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



Authorized for release by  
Maria Lopez, Project Manager  
[Maria.Lopez@et.eurofinsus.com](mailto:Maria.Lopez@et.eurofinsus.com)  
(626)386-1100

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# Definitions/Glossary

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

Job ID: 380-201174-1  
SDG: Weekly: Aiea Gulch Wells Pump 1

## Qualifiers

### GC/MS Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.

### GC/MS Semi VOA TICs

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

### GC 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.

## 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: 380-201174-1

**Job ID: 380-201174-1**

**Eurofins Pomona**

## Job Narrative 380-201174-1

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 3/4/2026 10:01 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.7°C and 2.0°C.

### GC/MS Semi VOA

Method 625.1: The 2,4,6-Tribromophenol (Surr), 2-Fluorophenol (Surr) and Phenol-d6 (Surr) was outside of control limits in the following sample: AIEA GULCH WELLS PUMP 1 (331-201-TP071) (380-201174-1). 2,4,6-Tribromophenol (Surr), 2-Fluorophenol (Surr) and Phenol-d6 (Surr) is not chemically associated with the target analyte(s), therefore, results are reported.

Method 625.1 SIM: The 2-Fluorophenol (Surr) and Phenol-d6 (Surr) were outside of control limits in the following sample: AIEA GULCH WELLS PUMP 1 (331-201-TP071) (380-201174-1). 2-Fluorophenol (Surr) and Phenol-d6 (Surr) are not chemically associated with the target analyte(s), therefore, results are reported.

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

Method 8015B: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 570-704786 and analytical batch 570-706200 recovered outside control limits for the following analytes: C10-C28. 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.

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## Detection Summary

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

Job ID: 380-201174-1  
SDG: Weekly: Aiea Gulch Wells Pump 1

**Client Sample ID: AIEA GULCH WELLS PUMP 1  
(331-201-TP071)**  
PWSID Number: HI0000331

**Lab Sample ID: 380-201174-1**

No Detections.

**Client Sample ID: TB: AIEA GULCH WELLS PUMP 1  
(331-201-TP071)**

**Lab Sample ID: 380-201174-2**

No Detections.

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

This Detection Summary does not include radiochemical test results.

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# Client Sample Results

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

Job ID: 380-201174-1  
 SDG: Weekly: Aiea Gulch Wells Pump 1

**Client Sample ID: AIEA GULCH WELLS PUMP 1  
 (331-201-TP071)**

**Lab Sample ID: 380-201174-1**

Date Collected: 03/02/26 11:23

Matrix: Drinking Water

Date Received: 03/04/26 10:01

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.099		0.099	ug/L		03/06/26 13:54	03/09/26 13:08	1
2,4'-DDD	<0.099		0.099	ug/L		03/06/26 13:54	03/09/26 13:08	1
2,4'-DDE	<0.099		0.099	ug/L		03/06/26 13:54	03/09/26 13:08	1
2,4'-DDT	<0.099		0.099	ug/L		03/06/26 13:54	03/09/26 13:08	1
2,4-Dinitrotoluene	<0.099		0.099	ug/L		03/06/26 13:54	03/09/26 13:08	1
2,6-Dinitrotoluene	<0.099		0.099	ug/L		03/06/26 13:54	03/09/26 13:08	1
2-Methylnaphthalene	<0.099		0.099	ug/L		03/06/26 13:54	03/09/26 13:08	1
4,4'-DDD	<0.099		0.099	ug/L		03/06/26 13:54	03/09/26 13:08	1
4,4'-DDE	<0.099		0.099	ug/L		03/06/26 13:54	03/09/26 13:08	1
4,4'-DDT	<0.099		0.099	ug/L		03/06/26 13:54	03/09/26 13:08	1
Acenaphthene	<0.099		0.099	ug/L		03/06/26 13:54	03/09/26 13:08	1
Acenaphthylene	<0.099		0.099	ug/L		03/06/26 13:54	03/09/26 13:08	1
Acetochlor	<0.099		0.099	ug/L		03/06/26 13:54	03/09/26 13:08	1
Alachlor	<0.050		0.050	ug/L		03/06/26 13:54	03/09/26 13:08	1
alpha-BHC	<0.099		0.099	ug/L		03/06/26 13:54	03/09/26 13:08	1
alpha-Chlordane	<0.050		0.050	ug/L		03/06/26 13:54	03/09/26 13:08	1
Anthracene	<0.020		0.020	ug/L		03/06/26 13:54	03/09/26 13:08	1
Atrazine	<0.050		0.050	ug/L		03/06/26 13:54	03/09/26 13:08	1
Benz(a)anthracene	<0.050		0.050	ug/L		03/06/26 13:54	03/09/26 13:08	1
Benzo[a]pyrene	<0.020		0.020	ug/L		03/06/26 13:54	03/09/26 13:08	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		03/06/26 13:54	03/09/26 13:08	1
Benzo[g,h,i]perylene	<0.050		0.050	ug/L		03/06/26 13:54	03/09/26 13:08	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		03/06/26 13:54	03/09/26 13:08	1
beta-BHC	<0.099		0.099	ug/L		03/06/26 13:54	03/09/26 13:08	1
Bis(2-ethylhexyl) phthalate	<0.60	*+	0.60	ug/L		03/06/26 13:54	03/09/26 13:08	1
Bromacil	<0.099		0.099	ug/L		03/06/26 13:54	03/09/26 13:08	1
Butachlor	<0.050		0.050	ug/L		03/06/26 13:54	03/09/26 13:08	1
Butylbenzylphthalate	<0.50		0.50	ug/L		03/06/26 13:54	03/09/26 13:08	1
Chlorobenzilate	<0.099		0.099	ug/L		03/06/26 13:54	03/09/26 13:08	1
Chloroneb	<0.099		0.099	ug/L		03/06/26 13:54	03/09/26 13:08	1
Chlorothalonil (Draconil, Bravo)	<0.099		0.099	ug/L		03/06/26 13:54	03/09/26 13:08	1
Chlorpyrifos	<0.050		0.050	ug/L		03/06/26 13:54	03/09/26 13:08	1
Chrysene	<0.020		0.020	ug/L		03/06/26 13:54	03/09/26 13:08	1
delta-BHC	<0.099		0.099	ug/L		03/06/26 13:54	03/09/26 13:08	1
Di(2-ethylhexyl)adipate	<0.60		0.60	ug/L		03/06/26 13:54	03/09/26 13:08	1
Dibenz(a,h)anthracene	<0.050		0.050	ug/L		03/06/26 13:54	03/09/26 13:08	1
Diclorvos (DDVP)	<0.050		0.050	ug/L		03/06/26 13:54	03/09/26 13:08	1
Dieldrin	<0.0099		0.0099	ug/L		03/06/26 13:54	03/09/26 13:08	1
Diethylphthalate	<0.50		0.50	ug/L		03/06/26 13:54	03/09/26 13:08	1
Dimethylphthalate	<0.50		0.50	ug/L		03/06/26 13:54	03/09/26 13:08	1
Di-n-butyl phthalate	<0.99		0.99	ug/L		03/06/26 13:54	03/09/26 13:08	1
Di-n-octyl phthalate	<0.099		0.099	ug/L		03/06/26 13:54	03/09/26 13:08	1
Endosulfan I (Alpha)	<0.099		0.099	ug/L		03/06/26 13:54	03/09/26 13:08	1
Endosulfan II (Beta)	<0.099		0.099	ug/L		03/06/26 13:54	03/09/26 13:08	1
Endosulfan sulfate	<0.099		0.099	ug/L		03/06/26 13:54	03/09/26 13:08	1
Endrin	<0.0099		0.0099	ug/L		03/06/26 13:54	03/09/26 13:08	1
Endrin aldehyde	<0.099		0.099	ug/L		03/06/26 13:54	03/09/26 13:08	1
EPTC	<0.099		0.099	ug/L		03/06/26 13:54	03/09/26 13:08	1

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# Client Sample Results

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

Job ID: 380-201174-1  
SDG: Weekly: Aiea Gulch Wells Pump 1

**Client Sample ID: AIEA GULCH WELLS PUMP 1  
(331-201-TP071)**

**Lab Sample ID: 380-201174-1**

Date Collected: 03/02/26 11:23

Matrix: Drinking Water

Date Received: 03/04/26 10:01

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.099		0.099	ug/L		03/06/26 13:54	03/09/26 13:08	1
Fluorene	<0.050		0.050	ug/L		03/06/26 13:54	03/09/26 13:08	1
gamma-Chlordane	<0.050		0.050	ug/L		03/06/26 13:54	03/09/26 13:08	1
Heptachlor	<0.0099		0.0099	ug/L		03/06/26 13:54	03/09/26 13:08	1
Heptachlor epoxide (isomer B)	<0.0099		0.0099	ug/L		03/06/26 13:54	03/09/26 13:08	1
Hexachlorobenzene	<0.050		0.050	ug/L		03/06/26 13:54	03/09/26 13:08	1
Hexachlorocyclopentadiene	<0.050		0.050	ug/L		03/06/26 13:54	03/09/26 13:08	1
Indeno[1,2,3-cd]pyrene	<0.050		0.050	ug/L		03/06/26 13:54	03/09/26 13:08	1
Isophorone	<0.099		0.099	ug/L		03/06/26 13:54	03/09/26 13:08	1
Lindane	<0.0099		0.0099	ug/L		03/06/26 13:54	03/09/26 13:08	1
Malathion	<0.099		0.099	ug/L		03/06/26 13:54	03/09/26 13:08	1
Methoxychlor	<0.050		0.050	ug/L		03/06/26 13:54	03/09/26 13:08	1
Metolachlor	<0.050		0.050	ug/L		03/06/26 13:54	03/09/26 13:08	1
Molinate	<0.099		0.099	ug/L		03/06/26 13:54	03/09/26 13:08	1
Naphthalene	<0.099		0.099	ug/L		03/06/26 13:54	03/09/26 13:08	1
Parathion	<0.099		0.099	ug/L		03/06/26 13:54	03/09/26 13:08	1
Pendimethalin (Penoxaline)	<0.099		0.099	ug/L		03/06/26 13:54	03/09/26 13:08	1
Phenanthrene	<0.040		0.040	ug/L		03/06/26 13:54	03/09/26 13:08	1
Propachlor	<0.050		0.050	ug/L		03/06/26 13:54	03/09/26 13:08	1
Pyrene	<0.050		0.050	ug/L		03/06/26 13:54	03/09/26 13:08	1
Simazine	<0.050		0.050	ug/L		03/06/26 13:54	03/09/26 13:08	1
Terbacil	<0.099		0.099	ug/L		03/06/26 13:54	03/09/26 13:08	1
Terbutylazine	<0.099		0.099	ug/L		03/06/26 13:54	03/09/26 13:08	1
Thiobencarb	<0.099		0.099	ug/L		03/06/26 13:54	03/09/26 13:08	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		03/06/26 13:54	03/09/26 13:08	1
trans-Nonachlor	<0.050		0.050	ug/L		03/06/26 13:54	03/09/26 13:08	1
Trifluralin	<0.099		0.099	ug/L		03/06/26 13:54	03/09/26 13:08	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	03/06/26 13:54	03/09/26 13:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	96		70 - 130	03/06/26 13:54	03/09/26 13:08	1
Perylene-d12	95		70 - 130	03/06/26 13:54	03/09/26 13:08	1
Triphenylphosphate	107		70 - 130	03/06/26 13:54	03/09/26 13:08	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		03/05/26 05:00	03/09/26 10:20	1
2-Methylnaphthalene	<0.19		0.19	ug/L		03/05/26 05:00	03/09/26 10:20	1
Acenaphthene	<0.19		0.19	ug/L		03/05/26 05:00	03/09/26 10:20	1
Acenaphthylene	<0.19		0.19	ug/L		03/05/26 05:00	03/09/26 10:20	1
Anthracene	<0.19		0.19	ug/L		03/05/26 05:00	03/09/26 10:20	1
Benzo[a]anthracene	<0.19		0.19	ug/L		03/05/26 05:00	03/09/26 10:20	1
Benzo[a]pyrene	<0.19		0.19	ug/L		03/05/26 05:00	03/09/26 10:20	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		03/05/26 05:00	03/09/26 10:20	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		03/05/26 05:00	03/09/26 10:20	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		03/05/26 05:00	03/09/26 10:20	1
Chrysene	<0.19		0.19	ug/L		03/05/26 05:00	03/09/26 10:20	1

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# Client Sample Results

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

Job ID: 380-201174-1  
SDG: Weekly: Aiea Gulch Wells Pump 1

**Client Sample ID: AIEA GULCH WELLS PUMP 1  
(331-201-TP071)**

**Lab Sample ID: 380-201174-1**

Date Collected: 03/02/26 11:23

Matrix: Drinking Water

Date Received: 03/04/26 10:01

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	<0.19		0.19	ug/L		03/05/26 05:00	03/09/26 10:20	1
Fluoranthene	<0.19		0.19	ug/L		03/05/26 05:00	03/09/26 10:20	1
Fluorene	<0.19		0.19	ug/L		03/05/26 05:00	03/09/26 10:20	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		03/05/26 05:00	03/09/26 10:20	1
Naphthalene	<0.19		0.19	ug/L		03/05/26 05:00	03/09/26 10:20	1
Phenanthrene	<0.19		0.19	ug/L		03/05/26 05:00	03/09/26 10:20	1
Pyrene	<0.19		0.19	ug/L		03/05/26 05:00	03/09/26 10:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	91		28 - 127			03/05/26 05:00	03/09/26 10:20	1
2-Fluorobiphenyl (Surr)	84		31 - 120			03/05/26 05:00	03/09/26 10:20	1
2-Fluorophenol (Surr)	0.5	S1-	17 - 120			03/05/26 05:00	03/09/26 10:20	1
Nitrobenzene-d5 (Surr)	81		27 - 120			03/05/26 05:00	03/09/26 10:20	1
Phenol-d6 (Surr)	0	S1-	10 - 120			03/05/26 05:00	03/09/26 10:20	1
p-Terphenyl-d14 (Surr)	75		45 - 120			03/05/26 05:00	03/09/26 10:20	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	03/05/26 05:00	03/26/26 14:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	0	S1-	33 - 139				03/05/26 05:00	03/26/26 14:07	1
2-Fluorobiphenyl (Surr)	85		33 - 126				03/05/26 05:00	03/26/26 14:07	1
2-Fluorophenol (Surr)	0	S1-	12 - 120				03/05/26 05:00	03/26/26 14:07	1
Nitrobenzene-d5 (Surr)	76		36 - 120				03/05/26 05:00	03/26/26 14:07	1
Phenol-d6 (Surr)	0	S1-	10 - 120				03/05/26 05:00	03/26/26 14:07	1
p-Terphenyl-d14 (Surr)	82		47 - 131				03/05/26 05:00	03/26/26 14:07	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			03/16/26 17:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		38 - 134				03/16/26 17:11	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		03/05/26 09:26	03/15/26 18:37	1
Motor Oil Range Organics [C24-C36]	<26		26	ug/L		03/05/26 09:26	03/15/26 18:37	1
C8-C18	<26		26	ug/L		03/05/26 09:26	03/15/26 18:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	110		60 - 130			03/05/26 09:26	03/15/26 18:37	1

# Client Sample Results

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

Job ID: 380-201174-1  
 SDG: Weekly: Aiea Gulch Wells Pump 1

**Client Sample ID: TB: AIEA GULCH WELLS PUMP 1  
 (331-201-TP071)**

**Lab Sample ID: 380-201174-2**

Date Collected: 03/02/26 11:23

Matrix: Water

Date Received: 03/04/26 10:01

**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	-		03/16/26 13:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		38 - 134				03/16/26 13:57	1

- 1
- 2
- 3
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- 9
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- 12
- 13
- 14
- 15
- 16

# Action Limit Summary

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

Job ID: 380-201174-1  
 SDG: Weekly: Aiea Gulch Wells Pump 1

**Client Sample ID: AIEA GULCH WELLS PUMP 1  
 (331-201-TP071)**  
**PWSID Number: HI0000331**

**Lab Sample ID: 380-201174-1**

## Compliance Check

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

Analyte	Result	Qualifier	Unit	EPAMCL	RL	Method	Prep Type
				Limit			
Alachlor	<0.050		ug/L	2	0.050	525.2	Total/NA
Atrazine	<0.050		ug/L	3	0.050	525.2	Total/NA
Benzo[a]pyrene	<0.020		ug/L	0.2	0.020	525.2	Total/NA
Bis(2-ethylhexyl) phthalate	<0.60	*+	ug/L	6	0.60	525.2	Total/NA
Di(2-ethylhexyl)adipate	<0.60		ug/L	400	0.60	525.2	Total/NA
Endrin	<0.0099		ug/L	2	0.0099	525.2	Total/NA
Heptachlor	<0.0099		ug/L	0.4	0.0099	525.2	Total/NA
Heptachlor epoxide (isomer B)	<0.0099		ug/L	0.2	0.0099	525.2	Total/NA
Hexachlorobenzene	<0.050		ug/L	1	0.050	525.2	Total/NA
Hexachlorocyclopentadiene	<0.050		ug/L	50	0.050	525.2	Total/NA
Lindane	<0.0099		ug/L	0.2	0.0099	525.2	Total/NA
Methoxychlor	<0.050		ug/L	40	0.050	525.2	Total/NA
Simazine	<0.050		ug/L	4	0.050	525.2	Total/NA
Benzo[a]pyrene	<0.19		ug/L	0.2	0.19	625.1 SIM	Total/NA

# Surrogate Summary

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

Job ID: 380-201174-1  
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Matrix: Drinking Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	2NMX (70-130)	PRY (70-130)	TPP (70-130)
380-201174-1	AIEA GULCH WELLS PUMP 1 (331)	96	95	107

**Surrogate Legend**

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

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	2NMX (70-130)	PRY (70-130)	TPP (70-130)
380-201167-I-1-A MS	Matrix Spike	97	107	110
380-201173-I-1-A DU	Duplicate	98	96	111
LCS 380-211365/23-A	Lab Control Sample	97	106	112
MB 380-211365/21-A	Method Blank	96	99	111
MRL 380-211365/22-A	Lab Control Sample	98	94	113

**Surrogate Legend**

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

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

Matrix: Drinking Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TBP (33-139)	FBP (33-126)	2FP (12-120)	NBZ (36-120)	PHL6 (10-120)	TPHd14 (47-131)
380-201174-1	AIEA GULCH WELLS PUMP 1 (331)	0 S1-	85	0 S1-	76	0 S1-	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)

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

Matrix: Drinking Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TBP (28-127)	FBP (31-120)	2FP (17-120)	NBZ (27-120)	PHL6 (10-120)	TPHd14 (45-120)
380-201174-1	AIEA GULCH WELLS PUMP 1 (331)	91	84	0.5 S1-	81	0 S1-	75

**Surrogate Legend**

TBP = 2,4,6-Tribromophenol (Surr)  
FBP = 2-Fluorobiphenyl (Surr)  
2FP = 2-Fluorophenol (Surr)  
NBZ = Nitrobenzene-d5 (Surr)

# Surrogate Summary

Client: City & County of Honolulu  
 Project/Site: RED-HILL  
 PHL6 = Phenol-d6 (Surr)  
 TPHd14 = p-Terphenyl-d14 (Surr)

Job ID: 380-201174-1  
 SDG: Weekly: Aiea Gulch Wells Pump 1

## 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)
380-201163-A-1-A MS	Matrix Spike	87	84	62	74	40	92
380-201163-A-1-B MSD	Matrix Spike Duplicate	94	93	62	77	42	95
LCS 570-704614/2-A	Lab Control Sample	96	93	66	78	44	98
LCS 570-704614/3-A	Lab Control Sample Dup	93	89	64	77	43	93
MB 570-704614/1-A	Method Blank	107	96	60	94	38	88

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

Matrix: Drinking Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		BFB1 (38-134)
380-201174-1	AIEA GULCH WELLS PUMP 1 (331)	91

**Surrogate Legend**

BFB = 4-Bromofluorobenzene (Surr)

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		BFB1 (38-134)
380-201174-2	TB: AIEA GULCH WELLS PUMP 1 (	85
380-202475-C-1 MS	Matrix Spike	90
380-202475-C-1 MSD	Matrix Spike Duplicate	89
LCS 570-709726/3	Lab Control Sample	84
LCS 570-709726/4	Lab Control Sample Dup	86
MB 570-709726/6	Method Blank	89
MRL 570-709726/5	Lab Control Sample	80

**Surrogate Legend**

BFB = 4-Bromofluorobenzene (Surr)

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

Matrix: Drinking Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		OTCSN1 (60-130)
380-201174-1	AIEA GULCH WELLS PUMP 1 (331)	110

**Surrogate Legend**

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# Surrogate Summary

Client: City & County of Honolulu

Project/Site: RED-HILL

OTCSN = n-Octacosane (Surr)

Job ID: 380-201174-1

SDG: Weekly: Aiea Gulch Wells Pump 1

## 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)							
380-201163-C-1-A MS	Matrix Spike	125							
380-201163-C-1-B MSD	Matrix Spike Duplicate	110							
LCS 570-704786/2-A	Lab Control Sample	106							
LCSD 570-704786/3-A	Lab Control Sample Dup	102							
MB 570-704786/1-A	Method Blank	103							
MRL 570-704786/4-A	Lab Control Sample	105							

### Surrogate Legend

OTCSN = n-Octacosane (Surr)

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- 14
- 15
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# QC Sample Results

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

Job ID: 380-201174-1  
 SDG: Weekly: Aiea Gulch Wells Pump 1

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

**Lab Sample ID: MB 380-211365/21-A**  
**Matrix: Water**  
**Analysis Batch: 211745**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 211365**

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1-Methylnaphthalene	<0.098		0.098	ug/L		03/06/26 13:54	03/09/26 08:06	1
2,4'-DDD	<0.098		0.098	ug/L		03/06/26 13:54	03/09/26 08:06	1
2,4'-DDE	<0.098		0.098	ug/L		03/06/26 13:54	03/09/26 08:06	1
2,4'-DDT	<0.098		0.098	ug/L		03/06/26 13:54	03/09/26 08:06	1
2,4-Dinitrotoluene	<0.098		0.098	ug/L		03/06/26 13:54	03/09/26 08:06	1
2,6-Dinitrotoluene	<0.098		0.098	ug/L		03/06/26 13:54	03/09/26 08:06	1
2-Methylnaphthalene	<0.098		0.098	ug/L		03/06/26 13:54	03/09/26 08:06	1
4,4'-DDD	<0.098		0.098	ug/L		03/06/26 13:54	03/09/26 08:06	1
4,4'-DDE	<0.098		0.098	ug/L		03/06/26 13:54	03/09/26 08:06	1
4,4'-DDT	<0.098		0.098	ug/L		03/06/26 13:54	03/09/26 08:06	1
Acenaphthene	<0.098		0.098	ug/L		03/06/26 13:54	03/09/26 08:06	1
Acenaphthylene	<0.098		0.098	ug/L		03/06/26 13:54	03/09/26 08:06	1
Acetochlor	<0.098		0.098	ug/L		03/06/26 13:54	03/09/26 08:06	1
Alachlor	<0.049		0.049	ug/L		03/06/26 13:54	03/09/26 08:06	1
alpha-BHC	<0.098		0.098	ug/L		03/06/26 13:54	03/09/26 08:06	1
alpha-Chlordane	<0.049		0.049	ug/L		03/06/26 13:54	03/09/26 08:06	1
Anthracene	<0.020		0.020	ug/L		03/06/26 13:54	03/09/26 08:06	1
Atrazine	<0.049		0.049	ug/L		03/06/26 13:54	03/09/26 08:06	1
Benz(a)anthracene	<0.049		0.049	ug/L		03/06/26 13:54	03/09/26 08:06	1
Benzo[a]pyrene	<0.020		0.020	ug/L		03/06/26 13:54	03/09/26 08:06	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		03/06/26 13:54	03/09/26 08:06	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		03/06/26 13:54	03/09/26 08:06	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		03/06/26 13:54	03/09/26 08:06	1
beta-BHC	<0.098		0.098	ug/L		03/06/26 13:54	03/09/26 08:06	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		03/06/26 13:54	03/09/26 08:06	1
Bromacil	<0.098		0.098	ug/L		03/06/26 13:54	03/09/26 08:06	1
Butachlor	<0.049		0.049	ug/L		03/06/26 13:54	03/09/26 08:06	1
Butylbenzylphthalate	<0.49		0.49	ug/L		03/06/26 13:54	03/09/26 08:06	1
Chlorobenzilate	<0.098		0.098	ug/L		03/06/26 13:54	03/09/26 08:06	1
Chloroneb	<0.098		0.098	ug/L		03/06/26 13:54	03/09/26 08:06	1
Chlorothalonil (Draconil, Bravo)	<0.098		0.098	ug/L		03/06/26 13:54	03/09/26 08:06	1
Chlorpyrifos	<0.049		0.049	ug/L		03/06/26 13:54	03/09/26 08:06	1
Chrysene	<0.020		0.020	ug/L		03/06/26 13:54	03/09/26 08:06	1
delta-BHC	<0.098		0.098	ug/L		03/06/26 13:54	03/09/26 08:06	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		03/06/26 13:54	03/09/26 08:06	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		03/06/26 13:54	03/09/26 08:06	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		03/06/26 13:54	03/09/26 08:06	1
Dieldrin	<0.0098		0.0098	ug/L		03/06/26 13:54	03/09/26 08:06	1
Diethylphthalate	<0.49		0.49	ug/L		03/06/26 13:54	03/09/26 08:06	1
Dimethylphthalate	<0.49		0.49	ug/L		03/06/26 13:54	03/09/26 08:06	1
Di-n-butyl phthalate	<0.98		0.98	ug/L		03/06/26 13:54	03/09/26 08:06	1
Di-n-octyl phthalate	<0.098		0.098	ug/L		03/06/26 13:54	03/09/26 08:06	1
Endosulfan I (Alpha)	<0.098		0.098	ug/L		03/06/26 13:54	03/09/26 08:06	1
Endosulfan II (Beta)	<0.098		0.098	ug/L		03/06/26 13:54	03/09/26 08:06	1
Endosulfan sulfate	<0.098		0.098	ug/L		03/06/26 13:54	03/09/26 08:06	1
Endrin	<0.0098		0.0098	ug/L		03/06/26 13:54	03/09/26 08:06	1
Endrin aldehyde	<0.098		0.098	ug/L		03/06/26 13:54	03/09/26 08:06	1
EPTC	<0.098		0.098	ug/L		03/06/26 13:54	03/09/26 08:06	1

# QC Sample Results

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

Job ID: 380-201174-1  
SDG: Weekly: Aiea Gulch Wells Pump 1

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

**Lab Sample ID: MB 380-211365/21-A**

**Client Sample ID: Method Blank**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 211745**

**Prep Batch: 211365**

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Fluoranthene	<0.098		0.098	ug/L		03/06/26 13:54	03/09/26 08:06	1
Fluorene	<0.049		0.049	ug/L		03/06/26 13:54	03/09/26 08:06	1
gamma-Chlordane	<0.049		0.049	ug/L		03/06/26 13:54	03/09/26 08:06	1
Heptachlor	<0.0098		0.0098	ug/L		03/06/26 13:54	03/09/26 08:06	1
Heptachlor epoxide (isomer B)	<0.0098		0.0098	ug/L		03/06/26 13:54	03/09/26 08:06	1
Hexachlorobenzene	<0.049		0.049	ug/L		03/06/26 13:54	03/09/26 08:06	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		03/06/26 13:54	03/09/26 08:06	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		03/06/26 13:54	03/09/26 08:06	1
Isophorone	<0.098		0.098	ug/L		03/06/26 13:54	03/09/26 08:06	1
Lindane	<0.0098		0.0098	ug/L		03/06/26 13:54	03/09/26 08:06	1
Malathion	<0.098		0.098	ug/L		03/06/26 13:54	03/09/26 08:06	1
Methoxychlor	<0.049		0.049	ug/L		03/06/26 13:54	03/09/26 08:06	1
Metolachlor	<0.049		0.049	ug/L		03/06/26 13:54	03/09/26 08:06	1
Molinate	<0.098		0.098	ug/L		03/06/26 13:54	03/09/26 08:06	1
Naphthalene	<0.098		0.098	ug/L		03/06/26 13:54	03/09/26 08:06	1
Parathion	<0.098		0.098	ug/L		03/06/26 13:54	03/09/26 08:06	1
Pendimethalin (Penoxaline)	<0.098		0.098	ug/L		03/06/26 13:54	03/09/26 08:06	1
Phenanthrene	<0.039		0.039	ug/L		03/06/26 13:54	03/09/26 08:06	1
Propachlor	<0.049		0.049	ug/L		03/06/26 13:54	03/09/26 08:06	1
Pyrene	<0.049		0.049	ug/L		03/06/26 13:54	03/09/26 08:06	1
Simazine	<0.049		0.049	ug/L		03/06/26 13:54	03/09/26 08:06	1
Terbacil	<0.098		0.098	ug/L		03/06/26 13:54	03/09/26 08:06	1
Terbutylazine	<0.098		0.098	ug/L		03/06/26 13:54	03/09/26 08:06	1
Thiobencarb	<0.098		0.098	ug/L		03/06/26 13:54	03/09/26 08:06	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		03/06/26 13:54	03/09/26 08:06	1
trans-Nonachlor	<0.049		0.049	ug/L		03/06/26 13:54	03/09/26 08:06	1
Trifluralin	<0.098		0.098	ug/L		03/06/26 13:54	03/09/26 08:06	1

Tentatively Identified Compound	MB	MB	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
	Est. Result	Qualifier							
Undecane	4.57	T J N	ug/L		3.17	1120-21-4	03/06/26 13:54	03/09/26 08:06	1
9-Octadecenamide, (Z)-	4.83	T J N	ug/L		7.96	301-02-0	03/06/26 13:54	03/09/26 08:06	1
13-Docosenamide, (Z)-	1.61	T J N	ug/L		10.48	112-84-5	03/06/26 13:54	03/09/26 08:06	1
Unknown	0.766	T J	ug/L		15.00	N/A	03/06/26 13:54	03/09/26 08:06	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Nitro-m-xylene	96		70 - 130	03/06/26 13:54	03/09/26 08:06	1
Perylene-d12	99		70 - 130	03/06/26 13:54	03/09/26 08:06	1
Triphenylphosphate	111		70 - 130	03/06/26 13:54	03/09/26 08:06	1

**Lab Sample ID: LCS 380-211365/23-A**

**Client Sample ID: Lab Control Sample**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 211745**

**Prep Batch: 211365**

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
1-Methylnaphthalene	1.97	1.96		ug/L		100	70 - 130
2,4'-DDD	1.97	2.08		ug/L		106	70 - 130
2,4'-DDE	1.97	2.29		ug/L		116	70 - 130
2,4'-DDT	1.97	2.07		ug/L		106	70 - 130

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# QC Sample Results

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

Job ID: 380-201174-1  
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: LCS 380-211365/23-A

Matrix: Water

Analysis Batch: 211745

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 211365

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec Limits
	Added	Result	Qualifier				
2,4-Dinitrotoluene	1.97	2.05		ug/L		104	70 - 130
2,6-Dinitrotoluene	1.97	1.98		ug/L		101	70 - 130
2-Methylnaphthalene	1.97	1.97		ug/L		100	70 - 130
4,4'-DDD	1.97	2.25		ug/L		114	70 - 130
4,4'-DDE	1.97	2.14		ug/L		109	70 - 130
4,4'-DDT	1.97	2.15		ug/L		109	70 - 130
Acenaphthene	1.97	1.98		ug/L		101	70 - 130
Acenaphthylene	1.97	2.04		ug/L		104	70 - 130
Acetochlor	1.97	2.21		ug/L		113	70 - 130
Alachlor	1.97	2.23		ug/L		113	70 - 130
alpha-BHC	1.97	1.97		ug/L		100	70 - 130
alpha-Chlordane	1.97	2.14		ug/L		109	70 - 130
Anthracene	1.97	1.88		ug/L		96	70 - 130
Atrazine	1.97	2.12		ug/L		108	70 - 130
Benz(a)anthracene	1.97	1.95		ug/L		99	70 - 130
Benzo[a]pyrene	1.97	2.21		ug/L		112	70 - 130
Benzo[b]fluoranthene	1.97	2.22		ug/L		113	70 - 130
Benzo[g,h,i]perylene	1.97	2.36		ug/L		120	70 - 130
Benzo[k]fluoranthene	1.97	2.27		ug/L		116	70 - 130
beta-BHC	1.97	2.03		ug/L		103	70 - 130
Bis(2-ethylhexyl) phthalate	1.97	2.57	*+	ug/L		131	70 - 130
Bromacil	1.97	1.98		ug/L		101	70 - 130
Butachlor	1.97	2.42		ug/L		123	70 - 130
Butylbenzylphthalate	1.97	2.24		ug/L		114	70 - 130
Chlorobenzilate	1.97	2.33		ug/L		119	70 - 130
Chloroneb	1.97	2.05		ug/L		104	70 - 130
Chlorothalonil (Draconil, Bravo)	1.97	2.07		ug/L		105	70 - 130
Chlorpyrifos	1.97	2.16		ug/L		110	70 - 130
Chrysene	1.97	2.03		ug/L		104	70 - 130
delta-BHC	1.97	2.05		ug/L		104	70 - 130
Di(2-ethylhexyl)adipate	1.97	2.34		ug/L		119	70 - 130
Dibenz(a,h)anthracene	1.97	2.22		ug/L		113	70 - 130
Diclorvos (DDVP)	1.97	2.13		ug/L		109	70 - 130
Dieldrin	1.97	2.26		ug/L		115	70 - 130
Diethylphthalate	1.97	2.14		ug/L		109	70 - 130
Dimethylphthalate	1.97	1.99		ug/L		101	70 - 130
Di-n-butyl phthalate	3.93	4.60		ug/L		117	70 - 130
Di-n-octyl phthalate	1.97	2.40		ug/L		122	70 - 130
Endosulfan I (Alpha)	1.97	2.01		ug/L		102	70 - 130
Endosulfan II (Beta)	1.97	1.95		ug/L		99	70 - 130
Endosulfan sulfate	1.97	2.37		ug/L		121	70 - 130
Endrin	1.97	2.34		ug/L		119	70 - 130
Endrin aldehyde	1.97	2.15		ug/L		109	60 - 130
EPTC	1.97	2.08		ug/L		106	70 - 130
Fluoranthene	1.97	2.10		ug/L		107	70 - 130
Fluorene	1.97	1.92		ug/L		98	70 - 130
gamma-Chlordane	1.97	2.07		ug/L		105	70 - 130
Heptachlor	1.97	2.23		ug/L		113	70 - 130
Heptachlor epoxide (isomer B)	1.97	2.07		ug/L		105	70 - 130

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# QC Sample Results

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

Job ID: 380-201174-1  
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: LCS 380-211365/23-A

Matrix: Water

Analysis Batch: 211745

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 211365

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Hexachlorobenzene	1.97	1.96		ug/L		100	70 - 130
Hexachlorocyclopentadiene	1.97	2.25		ug/L		115	70 - 130
Indeno[1,2,3-cd]pyrene	1.97	2.30		ug/L		117	70 - 130
Isophorone	1.97	1.89		ug/L		96	70 - 130
Lindane	1.97	2.08		ug/L		106	70 - 130
Malathion	1.97	2.38		ug/L		121	70 - 130
Methoxychlor	1.97	2.28		ug/L		116	70 - 130
Metolachlor	1.97	2.19		ug/L		112	70 - 130
Molinate	1.97	2.08		ug/L		106	70 - 130
Naphthalene	1.97	1.95		ug/L		99	70 - 130
Parathion	1.97	2.33		ug/L		119	70 - 130
Pendimethalin (Penoxaline)	1.97	2.21		ug/L		113	70 - 130
Phenanthrene	1.97	2.01		ug/L		102	70 - 130
Propachlor	1.97	2.14		ug/L		109	70 - 130
Pyrene	1.97	2.08		ug/L		106	70 - 130
Simazine	1.97	2.01		ug/L		102	70 - 130
Terbacil	1.97	2.15		ug/L		110	70 - 130
Terbutylazine	1.97	2.24		ug/L		114	70 - 130
Thiobencarb	1.97	2.24		ug/L		114	70 - 130
trans-Nonachlor	1.97	2.01		ug/L		102	70 - 130
Trifluralin	1.97	2.13		ug/L		108	70 - 130

Surrogate	LCS		Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	97		70 - 130
Perylene-d12	106		70 - 130
Triphenylphosphate	112		70 - 130

Lab Sample ID: MRL 380-211365/22-A

Matrix: Water

Analysis Batch: 211745

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 211365

Analyte	Spike Added	MRL	MRL	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
1-Methylnaphthalene	0.0985	0.101		ug/L		103	50 - 150
2,4'-DDD	0.0985	0.0956	J	ug/L		97	50 - 150
2,4'-DDE	0.0985	0.0994		ug/L		101	50 - 150
2,4'-DDT	0.0985	0.115		ug/L		117	50 - 150
2,4-Dinitrotoluene	0.0985	0.111		ug/L		112	50 - 150
2,6-Dinitrotoluene	0.0985	0.121		ug/L		123	50 - 150
2-Methylnaphthalene	0.0985	0.0923	J	ug/L		94	50 - 150
4,4'-DDD	0.0985	0.103		ug/L		105	50 - 150
4,4'-DDE	0.0985	0.110		ug/L		112	50 - 150
4,4'-DDT	0.0985	0.129		ug/L		131	50 - 150
Acenaphthene	0.0985	0.0899	J	ug/L		91	50 - 150
Acenaphthylene	0.0985	0.0955	J	ug/L		97	50 - 150
Acetochlor	0.0985	0.108		ug/L		109	50 - 150
Alachlor	0.0493	0.0538		ug/L		109	50 - 150
alpha-BHC	0.0985	0.106		ug/L		107	50 - 150
alpha-Chlordane	0.0246	0.0304	J	ug/L		124	50 - 150

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# QC Sample Results

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

Job ID: 380-201174-1  
SDG: Weekly: Aiea Gulch Wells Pump 1

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

**Lab Sample ID: MRL 380-211365/22-A**

**Matrix: Water**

**Analysis Batch: 211745**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 211365**

Analyte	Spike	MRL	MRL	Unit	D	%Rec	%Rec Limits
	Added	Result	Qualifier				
Anthracene	0.0197	0.0207		ug/L		105	50 - 150
Atrazine	0.0493	0.0524		ug/L		106	50 - 150
Benz(a)anthracene	0.0493	0.0552		ug/L		112	50 - 150
Benzo[a]pyrene	0.0197	0.0234		ug/L		119	50 - 150
Benzo[b]fluoranthene	0.0197	0.0256		ug/L		130	50 - 150
Benzo[g,h,i]perylene	0.0493	0.0495		ug/L		100	50 - 150
Benzo[k]fluoranthene	0.0197	0.0241		ug/L		122	50 - 150
beta-BHC	0.0985	0.110		ug/L		112	50 - 150
Bis(2-ethylhexyl) phthalate	0.591	0.754		ug/L		128	50 - 150
Bromacil	0.0985	0.117		ug/L		119	50 - 150
Butachlor	0.0493	0.0624		ug/L		127	50 - 150
Butylbenzylphthalate	0.493	0.617		ug/L		125	50 - 150
Chlorobenzilate	0.0985	0.108		ug/L		109	50 - 150
Chloroneb	0.0985	0.0976	J	ug/L		99	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0985	0.0952	J	ug/L		97	50 - 150
Chlorpyrifos	0.0493	0.0593		ug/L		120	50 - 150
Chrysene	0.0197	0.0231		ug/L		117	50 - 150
delta-BHC	0.0985	0.103		ug/L		105	50 - 150
Di(2-ethylhexyl)adipate	0.591	0.718		ug/L		121	50 - 150
Dibenz(a,h)anthracene	0.0493	0.0552		ug/L		112	50 - 150
Diclorvos (DDVP)	0.0493	0.0531		ug/L		108	50 - 150
Dieldrin	0.00985	0.00959	J	ug/L		97	50 - 150
Diethylphthalate	0.493	0.542		ug/L		110	50 - 150
Dimethylphthalate	0.493	0.514		ug/L		104	50 - 150
Di-n-butyl phthalate	0.493	0.560	J	ug/L		114	49 - 243
Di-n-octyl phthalate	0.0985	0.114		ug/L		116	50 - 150
Endosulfan I (Alpha)	0.0985	0.0976	J	ug/L		99	50 - 150
Endosulfan II (Beta)	0.0985	0.109		ug/L		111	50 - 150
Endosulfan sulfate	0.0985	0.109		ug/L		110	50 - 150
Endrin	0.00985	0.0127		ug/L		129	50 - 150
Endrin aldehyde	0.0985	0.116		ug/L		118	50 - 150
EPTC	0.0985	0.103		ug/L		105	50 - 150
Fluoranthene	0.0985	0.104		ug/L		106	50 - 150
Fluorene	0.0493	0.0512		ug/L		104	50 - 150
gamma-Chlordane	0.0246	0.0272	J	ug/L		110	50 - 150
Heptachlor	0.00985	0.0115		ug/L		117	50 - 150
Heptachlor epoxide (isomer B)	0.00985	0.0121		ug/L		123	50 - 150
Hexachlorobenzene	0.0493	0.0476	J	ug/L		97	50 - 150
Hexachlorocyclopentadiene	0.0493	0.0572		ug/L		116	50 - 150
Indeno[1,2,3-cd]pyrene	0.0493	0.0562		ug/L		114	50 - 150
Isophorone	0.0985	0.113		ug/L		115	50 - 150
Lindane	0.00985	0.0112		ug/L		114	50 - 150
Malathion	0.0985	0.108		ug/L		109	50 - 150
Methoxychlor	0.0493	0.0613		ug/L		124	50 - 150
Metolachlor	0.0493	0.0572		ug/L		116	50 - 150
Molinate	0.0985	0.0994		ug/L		101	50 - 150
Naphthalene	0.0985	0.0957	J	ug/L		97	50 - 150
Parathion	0.0985	0.0979	J	ug/L		99	50 - 150
Pendimethalin (Penoxaline)	0.0985	0.106		ug/L		107	50 - 150

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# QC Sample Results

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

Job ID: 380-201174-1  
SDG: Weekly: Aiea Gulch Wells Pump 1

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

**Lab Sample ID: MRL 380-211365/22-A**

**Matrix: Water**

**Analysis Batch: 211745**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 211365**

Analyte	Spike	MRL	MRL	Unit	D	%Rec	%Rec Limits
	Added	Result	Qualifier				
Phenanthrene	0.0394	0.0358	J	ug/L		91	50 - 150
Propachlor	0.0493	0.0551		ug/L		112	50 - 150
Pyrene	0.0493	0.0535		ug/L		109	50 - 150
Simazine	0.0493	0.0539		ug/L		110	50 - 150
Terbacil	0.0985	0.115		ug/L		117	50 - 150
Terbutylazine	0.0985	0.107		ug/L		108	50 - 150
Thiobencarb	0.0985	0.105		ug/L		107	50 - 150
trans-Nonachlor	0.0246	0.0267	J	ug/L		108	50 - 150
Trifluralin	0.0985	0.107		ug/L		109	50 - 150

Surrogate	MRL	MRL	Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	98		70 - 130
Perylene-d12	94		70 - 130
Triphenylphosphate	113		70 - 130

**Lab Sample ID: 380-201167-I-1-A MS**

**Matrix: Water**

**Analysis Batch: 211745**

**Client Sample ID: Matrix Spike**

**Prep Type: Total/NA**

**Prep Batch: 211365**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
1-Methylnaphthalene	<0.099		2.00	1.99		ug/L		100	70 - 130
2,4'-DDD	<0.099		2.00	2.08		ug/L		104	70 - 130
2,4'-DDE	<0.099		2.00	2.24		ug/L		112	70 - 130
2,4'-DDT	<0.099		2.00	1.98		ug/L		99	70 - 130
2,4-Dinitrotoluene	<0.099		2.00	2.10		ug/L		105	70 - 130
2,6-Dinitrotoluene	<0.099		2.00	2.04		ug/L		102	70 - 130
2-Methylnaphthalene	<0.099		2.00	1.98		ug/L		99	70 - 130
4,4'-DDD	<0.099		2.00	2.23		ug/L		112	70 - 130
4,4'-DDE	<0.099		2.00	2.07		ug/L		104	70 - 130
4,4'-DDT	<0.099		2.00	2.05		ug/L		103	70 - 130
Acenaphthene	<0.099		2.00	2.01		ug/L		101	70 - 130
Acenaphthylene	<0.099		2.00	2.04		ug/L		102	70 - 130
Acetochlor	<0.099		2.00	2.33		ug/L		117	70 - 130
Alachlor	<0.049		2.00	2.30		ug/L		115	70 - 130
alpha-BHC	<0.099		2.00	2.04		ug/L		102	70 - 130
alpha-Chlordane	<0.049		2.00	2.13		ug/L		105	70 - 130
Anthracene	<0.020		2.00	1.69		ug/L		85	70 - 130
Atrazine	<0.049		2.00	2.17		ug/L		109	70 - 130
Benz(a)anthracene	<0.049		2.00	1.89		ug/L		95	70 - 130
Benzo[a]pyrene	<0.020		2.00	2.07		ug/L		104	70 - 130
Benzo[b]fluoranthene	<0.020		2.00	2.29		ug/L		115	70 - 130
Benzo[g,h,i]perylene	<0.049		2.00	2.39		ug/L		120	70 - 130
Benzo[k]fluoranthene	<0.020		2.00	2.13		ug/L		107	70 - 130
beta-BHC	<0.099		2.00	2.03		ug/L		102	70 - 130
Bis(2-ethylhexyl) phthalate	<0.59	*+	2.00	2.39		ug/L		120	70 - 130
Bromacil	<0.099		2.00	2.18		ug/L		107	70 - 130
Butachlor	<0.049		2.00	2.43		ug/L		122	70 - 130
Butylbenzylphthalate	<0.49		2.00	2.24		ug/L		112	70 - 130

# QC Sample Results

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

Job ID: 380-201174-1  
 SDG: Weekly: Aiea Gulch Wells Pump 1

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

**Lab Sample ID: 380-201167-I-1-A MS**

**Client Sample ID: Matrix Spike**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 211745**

**Prep Batch: 211365**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
Chlorobenzilate	<0.099		2.00	2.37		ug/L		119	70 - 130
Chloroneb	<0.099		2.00	2.07		ug/L		104	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.099		2.00	2.08		ug/L		104	70 - 130
Chlorpyrifos	<0.049		2.00	2.14		ug/L		107	70 - 130
Chrysene	<0.020		2.00	2.05		ug/L		103	70 - 130
delta-BHC	<0.099		2.00	2.08		ug/L		104	70 - 130
Di(2-ethylhexyl)adipate	<0.59		2.00	2.14		ug/L		107	70 - 130
Dibenz(a,h)anthracene	<0.049		2.00	2.18		ug/L		109	70 - 130
Diclorvos (DDVP)	<0.049		2.00	2.16		ug/L		108	70 - 130
Dieldrin	0.077		2.00	2.47		ug/L		120	70 - 130
Diethylphthalate	<0.49		2.00	2.17		ug/L		109	70 - 130
Dimethylphthalate	<0.49		2.00	2.04		ug/L		102	70 - 130
Di-n-butyl phthalate	<0.99		3.99	4.59		ug/L		115	70 - 130
Di-n-octyl phthalate	<0.099		2.00	2.14		ug/L		107	70 - 130
Endosulfan I (Alpha)	<0.099		2.00	2.07		ug/L		104	70 - 130
Endosulfan II (Beta)	<0.099		2.00	2.02		ug/L		101	70 - 130
Endosulfan sulfate	<0.099		2.00	2.49		ug/L		125	70 - 130
Endrin	<0.0099		2.00	2.45		ug/L		123	70 - 130
Endrin aldehyde	<0.099		2.00	2.20		ug/L		110	60 - 130
EPTC	<0.099		2.00	2.13		ug/L		107	70 - 130
Fluoranthene	<0.099		2.00	2.09		ug/L		105	70 - 130
Fluorene	<0.049		2.00	1.92		ug/L		96	70 - 130
gamma-Chlordane	<0.049		2.00	2.15		ug/L		106	70 - 130
Heptachlor	<0.0099		2.00	2.26		ug/L		113	70 - 130
Heptachlor epoxide (isomer B)	0.015		2.00	2.13		ug/L		106	70 - 130
Hexachlorobenzene	<0.049		2.00	1.95		ug/L		98	70 - 130
Hexachlorocyclopentadiene	<0.049		2.00	2.14		ug/L		107	70 - 130
Indeno[1,2,3-cd]pyrene	<0.049		2.00	2.32		ug/L		116	70 - 130
Isophorone	<0.099		2.00	1.98		ug/L		99	70 - 130
Lindane	<0.0099		2.00	2.13		ug/L		107	70 - 130
Malathion	<0.099		2.00	2.42		ug/L		121	70 - 130
Methoxychlor	<0.049		2.00	2.29		ug/L		115	70 - 130
Metolachlor	<0.049		2.00	2.27		ug/L		114	70 - 130
Molinate	<0.099		2.00	2.10		ug/L		105	70 - 130
Naphthalene	<0.099		2.00	1.98		ug/L		99	70 - 130
Parathion	<0.099		2.00	2.32		ug/L		116	70 - 130
Pendimethalin (Penoxaline)	<0.099		2.00	2.24		ug/L		112	70 - 130
Phenanthrene	<0.039		2.00	2.03		ug/L		102	70 - 130
Propachlor	<0.049		2.00	2.19		ug/L		110	70 - 130
Pyrene	<0.049		2.00	2.05		ug/L		103	70 - 130
Simazine	<0.049		2.00	2.04		ug/L		102	70 - 130
Terbacil	<0.099		2.00	2.23		ug/L		112	70 - 130
Terbutylazine	<0.099		2.00	2.23		ug/L		112	70 - 130
Thiobencarb	<0.099		2.00	2.23		ug/L		112	70 - 130
trans-Nonachlor	<0.049		2.00	2.07		ug/L		103	70 - 130
Trifluralin	<0.099		2.00	2.16		ug/L		108	70 - 130

# QC Sample Results

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

Job ID: 380-201174-1  
SDG: Weekly: Aiea Gulch Wells Pump 1

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

**Lab Sample ID: 380-201167-I-1-A MS**

**Matrix: Water**

**Analysis Batch: 211745**

**Client Sample ID: Matrix Spike**

**Prep Type: Total/NA**

**Prep Batch: 211365**

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	97		70 - 130
Perylene-d12	107		70 - 130
Triphenylphosphate	110		70 - 130

**Lab Sample ID: 380-201173-I-1-A DU**

**Matrix: Water**

**Analysis Batch: 211745**

**Client Sample ID: Duplicate**

**Prep Type: Total/NA**

**Prep Batch: 211365**

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
1-Methylnaphthalene	<0.098		<0.099		ug/L		NC	20
2,4'-DDD	<0.098		<0.099		ug/L		NC	20
2,4'-DDE	<0.098		<0.099		ug/L		NC	20
2,4'-DDT	<0.098		<0.099		ug/L		NC	20
2,4-Dinitrotoluene	<0.098		<0.099		ug/L		NC	20
2,6-Dinitrotoluene	<0.098		<0.099		ug/L		NC	20
2-Methylnaphthalene	<0.098		<0.099		ug/L		NC	20
4,4'-DDD	<0.098		<0.099		ug/L		NC	20
4,4'-DDE	<0.098		<0.099		ug/L		NC	20
4,4'-DDT	<0.098		<0.099		ug/L		NC	20
Acenaphthene	<0.098		<0.099		ug/L		NC	20
Acenaphthylene	<0.098		<0.099		ug/L		NC	20
Acetochlor	<0.098		<0.099		ug/L		NC	20
Alachlor	<0.049		<0.050		ug/L		NC	20
alpha-BHC	<0.098		<0.099		ug/L		NC	20
alpha-Chlordane	<0.049		<0.050		ug/L		NC	20
Anthracene	<0.020		<0.020		ug/L		NC	20
Atrazine	<0.049		<0.050		ug/L		NC	20
Benz(a)anthracene	<0.049		<0.050		ug/L		NC	20
Benzo[a]pyrene	<0.020		<0.020		ug/L		NC	20
Benzo[b]fluoranthene	<0.020		<0.020		ug/L		NC	20
Benzo[g,h,i]perylene	<0.049		<0.050		ug/L		NC	20
Benzo[k]fluoranthene	<0.020		<0.020		ug/L		NC	20
beta-BHC	<0.098		<0.099		ug/L		NC	20
Bis(2-ethylhexyl) phthalate	<0.59	*+	<0.60	*+	ug/L		NC	20
Bromacil	<0.098		<0.099		ug/L		NC	20
Butachlor	<0.049		<0.050		ug/L		NC	20
Butylbenzylphthalate	<0.49		<0.50		ug/L		NC	20
Chlorobenzilate	<0.098		<0.099		ug/L		NC	20
Chloroneb	<0.098		<0.099		ug/L		NC	20
Chlorothalonil (Draconil, Bravo)	<0.098		<0.099		ug/L		NC	20
Chlorpyrifos	<0.049		<0.050		ug/L		NC	20
Chrysene	<0.020		<0.020		ug/L		NC	20
delta-BHC	<0.098		<0.099		ug/L		NC	20
Di(2-ethylhexyl)adipate	<0.59		<0.60		ug/L		NC	20
Dibenz(a,h)anthracene	<0.049		<0.050		ug/L		NC	20
Diclorvos (DDVP)	<0.049		<0.050		ug/L		NC	20
Dieldrin	<0.0098		<0.0099		ug/L		NC	20
Diethylphthalate	<0.49		<0.50		ug/L		NC	20

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# QC Sample Results

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

Job ID: 380-201174-1  
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: 380-201173-I-1-A DU

Matrix: Water

Analysis Batch: 211745

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 211365

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Dimethylphthalate	<0.49		<0.50		ug/L		NC	20
Di-n-butyl phthalate	<0.98		<0.99		ug/L		NC	20
Di-n-octyl phthalate	<0.098		<0.099		ug/L		NC	20
Endosulfan I (Alpha)	<0.098		<0.099		ug/L		NC	20
Endosulfan II (Beta)	<0.098		<0.099		ug/L		NC	20
Endosulfan sulfate	<0.098		<0.099		ug/L		NC	20
Endrin	<0.0098		<0.0099		ug/L		NC	20
Endrin aldehyde	<0.098		<0.099		ug/L		NC	20
EPTC	<0.098		<0.099		ug/L		NC	20
Fluoranthene	<0.098		<0.099		ug/L		NC	20
Fluorene	<0.049		<0.050		ug/L		NC	20
gamma-Chlordane	<0.049		<0.050		ug/L		NC	20
Heptachlor	<0.0098		<0.0099		ug/L		NC	20
Heptachlor epoxide (isomer B)	<0.0098		<0.0099		ug/L		NC	20
Hexachlorobenzene	<0.049		<0.050		ug/L		NC	20
Hexachlorocyclopentadiene	<0.049		<0.050		ug/L		NC	20
Indeno[1,2,3-cd]pyrene	<0.049		<0.050		ug/L		NC	20
Isophorone	<0.098		<0.099		ug/L		NC	20
Lindane	<0.0098		<0.0099		ug/L		NC	20
Malathion	<0.098		<0.099		ug/L		NC	20
Methoxychlor	<0.049		<0.050		ug/L		NC	20
Metolachlor	<0.049		<0.050		ug/L		NC	20
Molinate	<0.098		<0.099		ug/L		NC	20
Naphthalene	<0.098		<0.099		ug/L		NC	20
Parathion	<0.098		<0.099		ug/L		NC	20
Pendimethalin (Penoxaline)	<0.098		<0.099		ug/L		NC	20
Phenanthrene	<0.039		<0.040		ug/L		NC	20
Propachlor	<0.049		<0.050		ug/L		NC	20
Pyrene	<0.049		<0.050		ug/L		NC	20
Simazine	<0.049		<0.050		ug/L		NC	20
Terbacil	<0.098		<0.099		ug/L		NC	20
Terbutylazine	<0.098		<0.099		ug/L		NC	20
Thiobencarb	<0.098		<0.099		ug/L		NC	20
Total Permethrin (mixed isomers)	<0.20		<0.20		ug/L		NC	20
trans-Nonachlor	<0.049		<0.050		ug/L		NC	20
Trifluralin	<0.098		<0.099		ug/L		NC	20

Surrogate	DU	DU	Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	98		70 - 130
Perylene-d12	96		70 - 130
Triphenylphosphate	111		70 - 130

# QC Sample Results

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

Job ID: 380-201174-1  
SDG: Weekly: Aiea Gulch Wells Pump 1

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

**Lab Sample ID: MB 570-704614/1-A**  
**Matrix: Water**  
**Analysis Batch: 706228**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 704614**

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1-Methylnaphthalene	<0.20		0.20	ug/L		03/05/26 05:00	03/09/26 05:58	1
2-Methylnaphthalene	<0.20		0.20	ug/L		03/05/26 05:00	03/09/26 05:58	1
Acenaphthene	<0.20		0.20	ug/L		03/05/26 05:00	03/09/26 05:58	1
Acenaphthylene	<0.20		0.20	ug/L		03/05/26 05:00	03/09/26 05:58	1
Anthracene	<0.20		0.20	ug/L		03/05/26 05:00	03/09/26 05:58	1
Benzo[a]anthracene	<0.20		0.20	ug/L		03/05/26 05:00	03/09/26 05:58	1
Benzo[a]pyrene	<0.20		0.20	ug/L		03/05/26 05:00	03/09/26 05:58	1
Benzo[b]fluoranthene	<0.20		0.20	ug/L		03/05/26 05:00	03/09/26 05:58	1
Benzo[g,h,i]perylene	<0.20		0.20	ug/L		03/05/26 05:00	03/09/26 05:58	1
Benzo[k]fluoranthene	<0.20		0.20	ug/L		03/05/26 05:00	03/09/26 05:58	1
Chrysene	<0.20		0.20	ug/L		03/05/26 05:00	03/09/26 05:58	1
Dibenz(a,h)anthracene	<0.20		0.20	ug/L		03/05/26 05:00	03/09/26 05:58	1
Fluoranthene	<0.20		0.20	ug/L		03/05/26 05:00	03/09/26 05:58	1
Fluorene	<0.20		0.20	ug/L		03/05/26 05:00	03/09/26 05:58	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20	ug/L		03/05/26 05:00	03/09/26 05:58	1
Naphthalene	<0.20		0.20	ug/L		03/05/26 05:00	03/09/26 05:58	1
Phenanthrene	<0.20		0.20	ug/L		03/05/26 05:00	03/09/26 05:58	1
Pyrene	<0.20		0.20	ug/L		03/05/26 05:00	03/09/26 05:58	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4,6-Tribromophenol (Surr)	107		28 - 127	03/05/26 05:00	03/09/26 05:58	1
2-Fluorobiphenyl (Surr)	96		31 - 120	03/05/26 05:00	03/09/26 05:58	1
2-Fluorophenol (Surr)	60		17 - 120	03/05/26 05:00	03/09/26 05:58	1
Nitrobenzene-d5 (Surr)	94		27 - 120	03/05/26 05:00	03/09/26 05:58	1
Phenol-d6 (Surr)	38		10 - 120	03/05/26 05:00	03/09/26 05:58	1
p-Terphenyl-d14 (Surr)	88		45 - 120	03/05/26 05:00	03/09/26 05:58	1

**Lab Sample ID: LCS 570-704614/2-A**  
**Matrix: Water**  
**Analysis Batch: 706228**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 704614**

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
1-Methylnaphthalene	20.0	16.6		ug/L		83	47 - 120
2-Methylnaphthalene	20.0	15.7		ug/L		78	43 - 120
Acenaphthene	20.0	18.4		ug/L		92	60 - 132
Acenaphthylene	20.0	18.5		ug/L		93	54 - 126
Anthracene	20.0	18.5		ug/L		92	43 - 120
Benzo[a]anthracene	20.0	19.8		ug/L		99	42 - 133
Benzo[a]pyrene	20.0	21.3		ug/L		107	32 - 148
Benzo[b]fluoranthene	20.0	21.0		ug/L		105	42 - 140
Benzo[g,h,i]perylene	20.0	19.1		ug/L		96	1 - 195
Benzo[k]fluoranthene	20.0	19.9		ug/L		100	25 - 146
Chrysene	20.0	19.5		ug/L		97	44 - 140
Dibenz(a,h)anthracene	20.0	19.7		ug/L		99	1 - 200
Fluoranthene	20.0	19.0		ug/L		95	43 - 121
Fluorene	20.0	19.7		ug/L		99	70 - 120
Indeno[1,2,3-cd]pyrene	20.0	20.2		ug/L		101	1 - 151
Naphthalene	20.0	15.1		ug/L		76	36 - 120

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# QC Sample Results

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

Job ID: 380-201174-1  
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: LCS 570-704614/2-A

Matrix: Water

Analysis Batch: 706228

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 704614

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Phenanthrene	20.0	18.8		ug/L		94	65 - 120
Pyrene	20.0	20.4		ug/L		102	70 - 120

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	96		28 - 127
2-Fluorobiphenyl (Surr)	93		31 - 120
2-Fluorophenol (Surr)	66		17 - 120
Nitrobenzene-d5 (Surr)	78		27 - 120
Phenol-d6 (Surr)	44		10 - 120
p-Terphenyl-d14 (Surr)	98		45 - 120

Lab Sample ID: LCSD 570-704614/3-A

Matrix: Water

Analysis Batch: 706228

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 704614

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
		Result	Qualifier						
1-Methylnaphthalene	20.0	16.5		ug/L		82	47 - 120	1	20
2-Methylnaphthalene	20.0	15.6		ug/L		78	43 - 120	0	20
Acenaphthene	20.0	18.4		ug/L		92	60 - 132	0	29
Acenaphthylene	20.0	19.0		ug/L		95	54 - 126	2	45
Anthracene	20.0	18.4		ug/L		92	43 - 120	0	40
Benzo[a]anthracene	20.0	18.9		ug/L		95	42 - 133	5	32
Benzo[a]pyrene	20.0	20.7		ug/L		104	32 - 148	3	43
Benzo[b]fluoranthene	20.0	20.4		ug/L		102	42 - 140	3	43
Benzo[g,h,i]perylene	20.0	18.5		ug/L		93	1 - 195	3	61
Benzo[k]fluoranthene	20.0	19.5		ug/L		97	25 - 146	2	38
Chrysene	20.0	18.9		ug/L		95	44 - 140	3	53
Dibenz(a,h)anthracene	20.0	19.3		ug/L		97	1 - 200	2	75
Fluoranthene	20.0	19.1		ug/L		95	43 - 121	0	40
Fluorene	20.0	19.8		ug/L		99	70 - 120	0	23
Indeno[1,2,3-cd]pyrene	20.0	19.7		ug/L		98	1 - 151	3	60
Naphthalene	20.0	14.9		ug/L		74	36 - 120	2	39
Phenanthrene	20.0	18.6		ug/L		93	65 - 120	1	24
Pyrene	20.0	19.4		ug/L		97	70 - 120	5	30

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	93		28 - 127
2-Fluorobiphenyl (Surr)	89		31 - 120
2-Fluorophenol (Surr)	64		17 - 120
Nitrobenzene-d5 (Surr)	77		27 - 120
Phenol-d6 (Surr)	43		10 - 120
p-Terphenyl-d14 (Surr)	93		45 - 120

# QC Sample Results

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

Job ID: 380-201174-1  
SDG: Weekly: Aiea Gulch Wells Pump 1

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

**Lab Sample ID: 380-201163-A-1-A MS**

**Matrix: Water**

**Analysis Batch: 706228**

**Client Sample ID: Matrix Spike**

**Prep Type: Total/NA**

**Prep Batch: 704614**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier					
1-Methylnaphthalene	<0.20		19.2	15.0		ug/L		78	36 - 120	
2-Methylnaphthalene	<0.20		19.2	14.2		ug/L		74	32 - 124	
Acenaphthene	<0.20		19.2	16.8		ug/L		88	47 - 145	
Acenaphthylene	<0.20		19.2	16.8		ug/L		87	33 - 145	
Anthracene	<0.20		19.2	16.8		ug/L		87	27 - 133	
Benzo[a]anthracene	<0.20		19.2	18.0		ug/L		94	33 - 143	
Benzo[a]pyrene	<0.20		19.2	19.2		ug/L		100	17 - 163	
Benzo[b]fluoranthene	<0.20		19.2	18.8		ug/L		98	24 - 159	
Benzo[g,h,i]perylene	<0.20		19.2	17.0		ug/L		89	1 - 219	
Benzo[k]fluoranthene	<0.20		19.2	18.7		ug/L		98	11 - 162	
Chrysene	<0.20		19.2	18.1		ug/L		94	17 - 168	
Dibenz(a,h)anthracene	<0.20		19.2	17.7		ug/L		92	1 - 227	
Fluoranthene	<0.20		19.2	17.3		ug/L		90	26 - 137	
Fluorene	<0.20		19.2	18.1		ug/L		95	59 - 121	
Indeno[1,2,3-cd]pyrene	<0.20		19.2	17.9		ug/L		94	1 - 171	
Naphthalene	<0.20		19.2	13.6		ug/L		71	21 - 133	
Phenanthrene	<0.20		19.2	17.1		ug/L		89	54 - 120	
Pyrene	<0.20		19.2	18.4		ug/L		96	52 - 120	

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	87		28 - 127
2-Fluorobiphenyl (Surr)	84		31 - 120
2-Fluorophenol (Surr)	62		17 - 120
Nitrobenzene-d5 (Surr)	74		27 - 120
Phenol-d6 (Surr)	40		10 - 120
p-Terphenyl-d14 (Surr)	92		45 - 120

**Lab Sample ID: 380-201163-A-1-B MSD**

**Matrix: Water**

**Analysis Batch: 706228**

**Client Sample ID: Matrix Spike Duplicate**

**Prep Type: Total/NA**

**Prep Batch: 704614**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier							
1-Methylnaphthalene	<0.20		19.3	16.2		ug/L		84	36 - 120	8	30	
2-Methylnaphthalene	<0.20		19.3	15.4		ug/L		80	32 - 124	8	30	
Acenaphthene	<0.20		19.3	18.0		ug/L		93	47 - 145	7	48	
Acenaphthylene	<0.20		19.3	18.4		ug/L		95	33 - 145	9	74	
Anthracene	<0.20		19.3	18.1		ug/L		94	27 - 133	8	66	
Benzo[a]anthracene	<0.20		19.3	19.3		ug/L		100	33 - 143	7	53	
Benzo[a]pyrene	<0.20		19.3	20.7		ug/L		107	17 - 163	8	72	
Benzo[b]fluoranthene	<0.20		19.3	20.0		ug/L		104	24 - 159	6	71	
Benzo[g,h,i]perylene	<0.20		19.3	18.4		ug/L		95	1 - 219	8	97	
Benzo[k]fluoranthene	<0.20		19.3	19.7		ug/L		102	11 - 162	5	63	
Chrysene	<0.20		19.3	19.2		ug/L		99	17 - 168	6	87	
Dibenz(a,h)anthracene	<0.20		19.3	19.0		ug/L		99	1 - 227	7	126	
Fluoranthene	<0.20		19.3	18.5		ug/L		96	26 - 137	7	66	
Fluorene	<0.20		19.3	19.3		ug/L		100	59 - 121	6	38	
Indeno[1,2,3-cd]pyrene	<0.20		19.3	19.2		ug/L		100	1 - 171	7	99	
Naphthalene	<0.20		19.3	14.6		ug/L		76	21 - 133	7	65	

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# QC Sample Results

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

Job ID: 380-201174-1  
SDG: Weekly: Aiea Gulch Wells Pump 1

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

**Lab Sample ID: 380-201163-A-1-B MSD**

**Matrix: Water**

**Analysis Batch: 706228**

**Client Sample ID: Matrix Spike Duplicate**

**Prep Type: Total/NA**

**Prep Batch: 704614**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
Phenanthrene	<0.20		19.3	18.3		ug/L		95	54 - 120	7	39
Pyrene	<0.20		19.3	19.9		ug/L		103	52 - 120	8	49
<b>MSD MSD</b>											
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>								
2,4,6-Tribromophenol (Surr)	94		28 - 127								
2-Fluorobiphenyl (Surr)	93		31 - 120								
2-Fluorophenol (Surr)	62		17 - 120								
Nitrobenzene-d5 (Surr)	77		27 - 120								
Phenol-d6 (Surr)	42		10 - 120								
p-Terphenyl-d14 (Surr)	95		45 - 120								

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

**Lab Sample ID: MB 570-709726/6**

**Matrix: Water**

**Analysis Batch: 709726**

**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			03/16/26 11:34	1	
<b>MB MB</b>									
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>						<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	89		38 - 134						1

**Lab Sample ID: LCS 570-709726/3**

**Matrix: Water**

**Analysis Batch: 709726**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec	RPD	RPD
		Result	Qualifier				Limits		Limit
Gasoline Range Organics (C4-C13)	400	376		ug/L		94	78 - 120		
<b>LCS LCS</b>									
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>						
4-Bromofluorobenzene (Surr)	84		38 - 134						

**Lab Sample ID: LCSD 570-709726/4**

**Matrix: Water**

**Analysis Batch: 709726**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	RPD
		Result	Qualifier				Limits		Limit
Gasoline Range Organics (C4-C13)	400	390		ug/L		97	78 - 120	4	10
<b>LCSD LCSD</b>									
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>						
4-Bromofluorobenzene (Surr)	86		38 - 134						

# QC Sample Results

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

Job ID: 380-201174-1  
SDG: Weekly: Aiea Gulch Wells Pump 1

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

**Lab Sample ID: MRL 570-709726/5**  
**Matrix: Water**  
**Analysis Batch: 709726**

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (C4-C13)	10.0	<7.9		ug/L		74	50 - 150
<b>Surrogate</b>		<b>MRL</b>	<b>MRL</b>				<b>Limits</b>
4-Bromofluorobenzene (Surr)		80					38 - 134

**Lab Sample ID: 380-202475-C-1 MS**  
**Matrix: Water**  
**Analysis Batch: 709726**

**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	357		ug/L		89	68 - 122
<b>Surrogate</b>		<b>MS</b>		<b>MS</b>					<b>Limits</b>
4-Bromofluorobenzene (Surr)		90							38 - 134

**Lab Sample ID: 380-202475-C-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 709726**

**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	360		ug/L		90	68 - 122	1	18
<b>Surrogate</b>		<b>MSD</b>		<b>MSD</b>					<b>Limits</b>		
4-Bromofluorobenzene (Surr)		89							38 - 134		

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

**Lab Sample ID: MB 570-704786/1-A**  
**Matrix: Water**  
**Analysis Batch: 706200**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 704786**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<25		25	ug/L		03/05/26 09:25	03/08/26 23:39	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		03/05/26 09:25	03/08/26 23:39	1
C8-C18	<25		25	ug/L		03/05/26 09:25	03/08/26 23:39	1
<b>Surrogate</b>		<b>MB</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
n-Octacosane (Surr)		103				03/05/26 09:25	03/08/26 23:39	1

**Lab Sample ID: LCS 570-704786/2-A**  
**Matrix: Water**  
**Analysis Batch: 706200**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 704786**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
C10-C28	1600	1990		ug/L		124	56 - 127

Eurofins Pomona

# QC Sample Results

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

Job ID: 380-201174-1  
SDG: Weekly: Aiea Gulch Wells Pump 1

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

**Lab Sample ID: LCS 570-704786/2-A**  
**Matrix: Water**  
**Analysis Batch: 706200**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 704786**

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
<i>n-Octacosane (Surr)</i>	106		60 - 130

**Lab Sample ID: LCSD 570-704786/3-A**  
**Matrix: Water**  
**Analysis Batch: 706200**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 704786**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
C10-C28	1600	1460	*1	ug/L		91	56 - 127	31	23	

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
<i>n-Octacosane (Surr)</i>	102		60 - 130

**Lab Sample ID: MRL 570-704786/4-A**  
**Matrix: Water**  
**Analysis Batch: 709512**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 704786**

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
C10-C28	0.0200	0.0228	J	mg/L		114	50 - 150			

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

**Lab Sample ID: 380-201163-C-1-A MS**  
**Matrix: Water**  
**Analysis Batch: 709512**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 704786**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
									Limits	RPD		
C10-C28	<26	*1	1650	1860		ug/L		113	70 - 130			

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
<i>n-Octacosane (Surr)</i>	125		60 - 130

**Lab Sample ID: 380-201163-C-1-B MSD**  
**Matrix: Water**  
**Analysis Batch: 709512**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 704786**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
									Limits	RPD		
C10-C28	<26	*1	1700	1710		ug/L		101	70 - 130	8	20	

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
<i>n-Octacosane (Surr)</i>	110		60 - 130

# QC Association Summary

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

Job ID: 380-201174-1  
SDG: Weekly: Aiea Gulch Wells Pump 1

## GC/MS Semi VOA

### Prep Batch: 211365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-201174-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	525.2	
MB 380-211365/21-A	Method Blank	Total/NA	Water	525.2	
LCS 380-211365/23-A	Lab Control Sample	Total/NA	Water	525.2	
MRL 380-211365/22-A	Lab Control Sample	Total/NA	Water	525.2	
380-201167-I-1-A MS	Matrix Spike	Total/NA	Water	525.2	
380-201173-I-1-A DU	Duplicate	Total/NA	Water	525.2	

### Analysis Batch: 211745

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-201174-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	525.2	211365
MB 380-211365/21-A	Method Blank	Total/NA	Water	525.2	211365
LCS 380-211365/23-A	Lab Control Sample	Total/NA	Water	525.2	211365
MRL 380-211365/22-A	Lab Control Sample	Total/NA	Water	525.2	211365
380-201167-I-1-A MS	Matrix Spike	Total/NA	Water	525.2	211365
380-201173-I-1-A DU	Duplicate	Total/NA	Water	525.2	211365

### Prep Batch: 704614

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-201174-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	625.1	
MB 570-704614/1-A	Method Blank	Total/NA	Water	625.1	
LCS 570-704614/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 570-704614/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	
380-201163-A-1-A MS	Matrix Spike	Total/NA	Water	625.1	
380-201163-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	625.1	

### Analysis Batch: 706228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-201174-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	625.1 SIM	704614
MB 570-704614/1-A	Method Blank	Total/NA	Water	625.1 SIM	704614
LCS 570-704614/2-A	Lab Control Sample	Total/NA	Water	625.1 SIM	704614
LCSD 570-704614/3-A	Lab Control Sample Dup	Total/NA	Water	625.1 SIM	704614
380-201163-A-1-A MS	Matrix Spike	Total/NA	Water	625.1 SIM	704614
380-201163-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	625.1 SIM	704614

### Analysis Batch: 715100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-201174-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	625.1	704614

## GC VOA

### Analysis Batch: 709726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-201174-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	8015B GRO LL	
380-201174-2	TB: AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Water	8015B GRO LL	
MB 570-709726/6	Method Blank	Total/NA	Water	8015B GRO LL	
LCS 570-709726/3	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-709726/4	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	
MRL 570-709726/5	Lab Control Sample	Total/NA	Water	8015B GRO LL	
380-202475-C-1 MS	Matrix Spike	Total/NA	Water	8015B GRO LL	
380-202475-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8015B GRO LL	

# QC Association Summary

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

Job ID: 380-201174-1  
 SDG: Weekly: Aiea Gulch Wells Pump 1

## GC Semi VOA

### Prep Batch: 704786

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-201174-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	3510C	
MB 570-704786/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-704786/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-704786/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-704786/4-A	Lab Control Sample	Total/NA	Water	3510C	
380-201163-C-1-A MS	Matrix Spike	Total/NA	Water	3510C	
380-201163-C-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

### Analysis Batch: 706200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-704786/1-A	Method Blank	Total/NA	Water	8015B	704786
LCS 570-704786/2-A	Lab Control Sample	Total/NA	Water	8015B	704786
LCSD 570-704786/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	704786

### Analysis Batch: 709512

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-201174-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	8015B	704786
MRL 570-704786/4-A	Lab Control Sample	Total/NA	Water	8015B	704786
380-201163-C-1-A MS	Matrix Spike	Total/NA	Water	8015B	704786
380-201163-C-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	8015B	704786

# Lab Chronicle

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

Job ID: 380-201174-1  
 SDG: Weekly: Aiea Gulch Wells Pump 1

**Client Sample ID: AIEA GULCH WELLS PUMP 1  
 (331-201-TP071)**

**Lab Sample ID: 380-201174-1**

**Date Collected: 03/02/26 11:23**

**Matrix: Drinking Water**

**Date Received: 03/04/26 10:01**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			211365	IQ42	EA POM	03/06/26 13:54
Total/NA	Analysis	525.2		1	211745	Q8LA	EA POM	03/09/26 13:08
Total/NA	Prep	625.1			704614	OAJ3	EET CAL 4	03/05/26 05:00
Total/NA	Analysis	625.1		1	715100	PQS1	EET CAL 4	03/26/26 14:07
Total/NA	Prep	625.1			704614	OAJ3	EET CAL 4	03/05/26 05:00
Total/NA	Analysis	625.1 SIM		1	706228	PQS1	EET CAL 4	03/09/26 10:20
Total/NA	Analysis	8015B GRO LL		1	709726	A9VE	EET CAL 4	03/16/26 17:11
Total/NA	Prep	3510C			704786	TVD6	EET CAL 4	03/05/26 09:26
Total/NA	Analysis	8015B		1	709512	H6FE	EET CAL 4	03/15/26 18:37

**Client Sample ID: TB: AIEA GULCH WELLS PUMP 1  
 (331-201-TP071)**

**Lab Sample ID: 380-201174-2**

**Date Collected: 03/02/26 11:23**

**Matrix: Water**

**Date Received: 03/04/26 10:01**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	709726	A9VE	EET CAL 4	03/16/26 13:57

**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: 380-201174-1  
 SDG: Weekly: Aiea Gulch Wells Pump 1

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

## Laboratory: Eurofins Calscience

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

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

Eurofins Pomona

# Accreditation/Certification Summary

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

Job ID: 380-201174-1  
SDG: Weekly: Aiea Gulch Wells Pump 1

## 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	03-01-27
Washington	State	C916	10-12-26

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# Method Summary

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

Job ID: 380-201174-1  
SDG: Weekly: Aiea Gulch Wells Pump 1

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: 380-201174-1  
SDG: Weekly: Aiea Gulch Wells Pump 1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	PWSID Number
380-201174-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Drinking Water	03/02/26 11:23	03/04/26 10:01	HI0000331
380-201174-2	TB: AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Water	03/02/26 11:23	03/04/26 10:01	

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ORIGIN ID HIKA (808) 748-5840  
BWS CHEMLAB  
HONOLULU BOARD OF WATER SUPPLY  
630 S. BERETANIA ST.  
CHEMICAL LABORATORY  
HONOLULU HI 96843  
UNITED STATES US

SHIP DATE: 03MAR26  
ACTWGT 62.00 LB  
CAD 258050552/INET4535  
BILL RECIPIENT

TO **EUROFINS RECEIVING DEPARTMENT**  
**EUROFINS DRINKING WATER TESTING**  
**941 CORPORATE CENTER DR**

**POMONA CA 91768**

(626) 386-1100 REF

58KJ2/D126/4848

DEPT



WED - 04 MAR 10:30A  
PRIORITY OVERNIGHT

5 of 6

MPS# 8892 6394 0288

0263

Mstr# 8892 6394 0244

0201

91768

**WM ONTA**

CA-US ONT



(63A) 1.5 + 0.2 = 1.7 g/L - Frozen  
Mark Urcantia 3/4/26 1001

After printing this label  
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## Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-201174-1  
SDG Number: Weekly: Aiea Gulch Wells Pump 1

**Login Number: 201174**

**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: 380-201174-1  
SDG Number: Weekly: Aiea Gulch Wells Pump 1

**Login Number: 201174**

**List Number: 2**

**Creator: Khana, Piyush**

**List Source: Eurofins Calscience**

**List Creation: 03/04/26 06:52 PM**

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.3
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	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	