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

# 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/Pump 2  
RUSH Weekly Red Hill

## JOB NUMBER

380-169541-1

# Eurofins Eaton Analytical Pomona

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Eaton Analytical, LLC Project Manager.

## Compliance Statement

1. Laboratory is accredited in accordance with TNI 2016 Standards and ISO/IEC 17025:2017.
2. Laboratory certifies that the test results meet all TNI 2016 and ISO/IEC 17025:2017 requirements unless noted under the individual analysis
3. Test results relate only to the sample(s) tested.
4. This report shall not be reproduced except in full, without the written approval of the laboratory.
5. Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below. (DW, Water matrices)

## Authorization



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# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	3
Definitions/Glossary . . . . .	4
Case Narrative . . . . .	5
Detection Summary . . . . .	6
Client Sample Results . . . . .	7
Action Limit Summary . . . . .	13
Surrogate Summary . . . . .	14
QC Sample Results . . . . .	17
QC Association Summary . . . . .	34
Lab Chronicle . . . . .	36
Certification Summary . . . . .	37
Method Summary . . . . .	39
Sample Summary . . . . .	40
Chain of Custody . . . . .	41
Receipt Checklists . . . . .	47

# Definitions/Glossary

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

Job ID: 380-169541-1  
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

## Qualifiers

### GC/MS Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### GC/MS Semi VOA TICs

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

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	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: 380-169541-1

**Job ID: 380-169541-1**

**Eurofins Eaton Analytical Pomona**

## Job Narrative 380-169541-1

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 9/4/2025 9:56 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 6 coolers at receipt time were 1.9°C, 2.1°C, 3.6°C, 4.4°C, 4.8°C and 7.2°C.

### Receipt Exceptions

One cooler was received at 7.2°C for AIEA GULCH WELLS PUMP 1 (331-201-TP071) (380-169541-1) TB 8015B\_GRO vials were received above temperature for compliance purpose. The analysis for 8015B\_GRO for Aiea Gulch Wells Pump 1 Trip blank was canceled. The site is sampled weekly thus follow up sample was collected on 09/08/25 under job # 380-170527. (XWB4)

### GC/MS Semi VOA

Method 625.1\_SIM: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 570-622390 and analytical batch 570-624441 recovered outside control limits for the following analytes: Pyrene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. Method 625.1\_SIM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 570-622390 and analytical batch 570-624441 recovered outside control limits for the following analytes: 1-Methylnaphthalene. Method 625.1\_SIM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for the following sample associated with preparation batch 570-622390 and analytical batch 570-624441 were outside control limits: (380-169478-A-1-B MSD). The associated laboratory control sample (LCS) recovery met acceptance criteria.

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: 380-169541-1  
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

**Lab Sample ID: 380-169541-1**

No Detections.

**Client Sample ID: AIEA GULCH WELLS PUMP 2**  
**(331-202-TP072)**  
PWSID Number: HI0000331

**Lab Sample ID: 380-169541-3**

No Detections.

**Client Sample ID: TB: AIEA GULCH WELLS PUMP 2**  
**(331-202-TP072)**

**Lab Sample ID: 380-169541-4**

No Detections.

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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: 380-169541-1  
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

**Lab Sample ID: 380-169541-1**

Date Collected: 09/02/25 11:10

Matrix: Drinking Water

Date Received: 09/04/25 09:56

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		09/05/25 06:34	09/05/25 15:28	1
2,4'-DDD	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 15:28	1
2,4'-DDE	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 15:28	1
2,4'-DDT	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 15:28	1
2,4-Dinitrotoluene	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 15:28	1
2,6-Dinitrotoluene	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 15:28	1
2-Methylnaphthalene	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 15:28	1
4,4'-DDD	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 15:28	1
4,4'-DDE	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 15:28	1
4,4'-DDT	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 15:28	1
Acenaphthene	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 15:28	1
Acenaphthylene	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 15:28	1
Acetochlor	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 15:28	1
Alachlor	<0.050		0.050	ug/L		09/05/25 06:34	09/05/25 15:28	1
alpha-BHC	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 15:28	1
alpha-Chlordane	<0.050		0.050	ug/L		09/05/25 06:34	09/05/25 15:28	1
Anthracene	<0.020		0.020	ug/L		09/05/25 06:34	09/05/25 15:28	1
Atrazine	<0.050		0.050	ug/L		09/05/25 06:34	09/05/25 15:28	1
Benz(a)anthracene	<0.050		0.050	ug/L		09/05/25 06:34	09/05/25 15:28	1
Benzo[a]pyrene	<0.020		0.020	ug/L		09/05/25 06:34	09/05/25 15:28	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		09/05/25 06:34	09/05/25 15:28	1
Benzo[g,h,i]perylene	<0.050		0.050	ug/L		09/05/25 06:34	09/05/25 15:28	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		09/05/25 06:34	09/05/25 15:28	1
beta-BHC	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 15:28	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		09/05/25 06:34	09/05/25 15:28	1
Bromacil	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 15:28	1
Butachlor	<0.050		0.050	ug/L		09/05/25 06:34	09/05/25 15:28	1
Butylbenzylphthalate	<0.50		0.50	ug/L		09/05/25 06:34	09/05/25 15:28	1
Chlorobenzilate	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 15:28	1
Chloroneb	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 15:28	1
Chlorothalonil (Draconil, Bravo)	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 15:28	1
Chlorpyrifos	<0.050		0.050	ug/L		09/05/25 06:34	09/05/25 15:28	1
Chrysene	<0.020		0.020	ug/L		09/05/25 06:34	09/05/25 15:28	1
delta-BHC	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 15:28	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		09/05/25 06:34	09/05/25 15:28	1
Dibenz(a,h)anthracene	<0.050		0.050	ug/L		09/05/25 06:34	09/05/25 15:28	1
Diclorvos (DDVP)	<0.050		0.050	ug/L		09/05/25 06:34	09/05/25 15:28	1
Dieldrin	<0.0099		0.0099	ug/L		09/05/25 06:34	09/05/25 15:28	1
Diethylphthalate	<0.50		0.50	ug/L		09/05/25 06:34	09/05/25 15:28	1
Dimethylphthalate	<0.50		0.50	ug/L		09/05/25 06:34	09/05/25 15:28	1
Di-n-butyl phthalate	<0.99		0.99	ug/L		09/05/25 06:34	09/05/25 15:28	1
Di-n-octyl phthalate	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 15:28	1
Endosulfan I (Alpha)	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 15:28	1
Endosulfan II (Beta)	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 15:28	1
Endosulfan sulfate	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 15:28	1
Endrin	<0.0099		0.0099	ug/L		09/05/25 06:34	09/05/25 15:28	1
Endrin aldehyde	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 15:28	1
EPTC	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 15:28	1

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# Client Sample Results

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

Job ID: 380-169541-1  
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

**Lab Sample ID: 380-169541-1**

**Date Collected: 09/02/25 11:10**

**Matrix: Drinking Water**

**Date Received: 09/04/25 09:56**

**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		09/05/25 06:34	09/05/25 15:28	1
Fluorene	<0.050		0.050	ug/L		09/05/25 06:34	09/05/25 15:28	1
gamma-Chlordane	<0.050		0.050	ug/L		09/05/25 06:34	09/05/25 15:28	1
Heptachlor	<0.0099		0.0099	ug/L		09/05/25 06:34	09/05/25 15:28	1
Heptachlor epoxide (isomer B)	<0.0099		0.0099	ug/L		09/05/25 06:34	09/05/25 15:28	1
Hexachlorobenzene	<0.050		0.050	ug/L		09/05/25 06:34	09/05/25 15:28	1
Hexachlorocyclopentadiene	<0.050		0.050	ug/L		09/05/25 06:34	09/05/25 15:28	1
Indeno[1,2,3-cd]pyrene	<0.050		0.050	ug/L		09/05/25 06:34	09/05/25 15:28	1
Isophorone	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 15:28	1
Lindane	<0.0099		0.0099	ug/L		09/05/25 06:34	09/05/25 15:28	1
Malathion	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 15:28	1
Methoxychlor	<0.050		0.050	ug/L		09/05/25 06:34	09/05/25 15:28	1
Metolachlor	<0.050		0.050	ug/L		09/05/25 06:34	09/05/25 15:28	1
Molinate	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 15:28	1
Naphthalene	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 15:28	1
Parathion	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 15:28	1
Pendimethalin (Penoxaline)	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 15:28	1
Phenanthrene	<0.040		0.040	ug/L		09/05/25 06:34	09/05/25 15:28	1
Propachlor	<0.050		0.050	ug/L		09/05/25 06:34	09/05/25 15:28	1
Pyrene	<0.050		0.050	ug/L		09/05/25 06:34	09/05/25 15:28	1
Simazine	<0.050		0.050	ug/L		09/05/25 06:34	09/05/25 15:28	1
Terbacil	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 15:28	1
Terbutylazine	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 15:28	1
Thiobencarb	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 15:28	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		09/05/25 06:34	09/05/25 15:28	1
trans-Nonachlor	<0.050	^+	0.050	ug/L		09/05/25 06:34	09/05/25 15:28	1
Trifluralin	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 15:28	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	09/05/25 06:34	09/05/25 15:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	94		70 - 130	09/05/25 06:34	09/05/25 15:28	1
Perylene-d12	87		70 - 130	09/05/25 06:34	09/05/25 15:28	1
Triphenylphosphate	104		70 - 130	09/05/25 06:34	09/05/25 15:28	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.19	*1	0.19	ug/L		09/08/25 12:54	09/12/25 19:59	1
2-Methylnaphthalene	<0.19		0.19	ug/L		09/08/25 12:54	09/12/25 19:59	1
Acenaphthene	<0.19		0.19	ug/L		09/08/25 12:54	09/12/25 19:59	1
Acenaphthylene	<0.19		0.19	ug/L		09/08/25 12:54	09/12/25 19:59	1
Anthracene	<0.19		0.19	ug/L		09/08/25 12:54	09/12/25 19:59	1
Benzo[a]anthracene	<0.19		0.19	ug/L		09/08/25 12:54	09/12/25 19:59	1
Benzo[a]pyrene	<0.19		0.19	ug/L		09/08/25 12:54	09/12/25 19:59	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		09/08/25 12:54	09/12/25 19:59	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		09/08/25 12:54	09/12/25 19:59	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		09/08/25 12:54	09/12/25 19:59	1
Chrysene	<0.19		0.19	ug/L		09/08/25 12:54	09/12/25 19:59	1

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# Client Sample Results

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

Job ID: 380-169541-1  
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

**Lab Sample ID: 380-169541-1**

Date Collected: 09/02/25 11:10  
Date Received: 09/04/25 09:56

Matrix: Drinking Water  
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		09/08/25 12:54	09/12/25 19:59	1
Fluoranthene	<0.19		0.19	ug/L		09/08/25 12:54	09/12/25 19:59	1
Fluorene	<0.19		0.19	ug/L		09/08/25 12:54	09/12/25 19:59	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		09/08/25 12:54	09/12/25 19:59	1
Naphthalene	<0.19		0.19	ug/L		09/08/25 12:54	09/12/25 19:59	1
Phenanthrene	<0.19		0.19	ug/L		09/08/25 12:54	09/12/25 19:59	1
Pyrene	<0.19	*+	0.19	ug/L		09/08/25 12:54	09/12/25 19:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	80		28 - 127	09/08/25 12:54	09/12/25 19:59	1
2-Fluorobiphenyl (Surr)	73		31 - 120	09/08/25 12:54	09/12/25 19:59	1
2-Fluorophenol (Surr)	58		17 - 120	09/08/25 12:54	09/12/25 19:59	1
Nitrobenzene-d5 (Surr)	76		27 - 120	09/08/25 12:54	09/12/25 19:59	1
Phenol-d6 (Surr)	35		10 - 120	09/08/25 12:54	09/12/25 19:59	1
p-Terphenyl-d14 (Surr)	79		45 - 120	09/08/25 12:54	09/12/25 19:59	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	09/08/25 12:54	09/17/25 15:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	77		33 - 139	09/08/25 12:54	09/17/25 15:50	1
2-Fluorobiphenyl (Surr)	84		33 - 126	09/08/25 12:54	09/17/25 15:50	1
2-Fluorophenol (Surr)	66		12 - 120	09/08/25 12:54	09/17/25 15:50	1
Nitrobenzene-d5 (Surr)	92		36 - 120	09/08/25 12:54	09/17/25 15:50	1
Phenol-d6 (Surr)	36		10 - 120	09/08/25 12:54	09/17/25 15:50	1
p-Terphenyl-d14 (Surr)	95		47 - 131	09/08/25 12:54	09/17/25 15:50	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		09/08/25 14:16	09/14/25 21:09	1
Motor Oil Range Organics [C24-C36]	<26		26	ug/L		09/08/25 14:16	09/14/25 21:09	1
C8-C18	<26		26	ug/L		09/08/25 14:16	09/14/25 21:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	84		60 - 130	09/08/25 14:16	09/14/25 21:09	1

**Client Sample ID: AIEA GULCH WELLS PUMP 2  
(331-202-TP072)**

**Lab Sample ID: 380-169541-3**

Date Collected: 09/02/25 11:29  
Date Received: 09/04/25 09:56

Matrix: Water  
PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.098		0.098	ug/L		09/05/25 06:34	09/05/25 15:48	1
2,4'-DDD	<0.098		0.098	ug/L		09/05/25 06:34	09/05/25 15:48	1
2,4'-DDE	<0.098		0.098	ug/L		09/05/25 06:34	09/05/25 15:48	1
2,4'-DDT	<0.098		0.098	ug/L		09/05/25 06:34	09/05/25 15:48	1
2,4-Dinitrotoluene	<0.098		0.098	ug/L		09/05/25 06:34	09/05/25 15:48	1

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# Client Sample Results

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

Job ID: 380-169541-1  
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

**Client Sample ID: AIEA GULCH WELLS PUMP 2  
(331-202-TP072)**

**Lab Sample ID: 380-169541-3**

Date Collected: 09/02/25 11:29

Matrix: Water

Date Received: 09/04/25 09:56

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2,6-Dinitrotoluene	<0.098		0.098	ug/L		09/05/25 06:34	09/05/25 15:48	1
2-Methylnaphthalene	<0.098		0.098	ug/L		09/05/25 06:34	09/05/25 15:48	1
4,4'-DDD	<0.098		0.098	ug/L		09/05/25 06:34	09/05/25 15:48	1
4,4'-DDE	<0.098		0.098	ug/L		09/05/25 06:34	09/05/25 15:48	1
4,4'-DDT	<0.098		0.098	ug/L		09/05/25 06:34	09/05/25 15:48	1
Acenaphthene	<0.098		0.098	ug/L		09/05/25 06:34	09/05/25 15:48	1
Acenaphthylene	<0.098		0.098	ug/L		09/05/25 06:34	09/05/25 15:48	1
Acetochlor	<0.098		0.098	ug/L		09/05/25 06:34	09/05/25 15:48	1
Alachlor	<0.049		0.049	ug/L		09/05/25 06:34	09/05/25 15:48	1
alpha-BHC	<0.098		0.098	ug/L		09/05/25 06:34	09/05/25 15:48	1
alpha-Chlordane	<0.049		0.049	ug/L		09/05/25 06:34	09/05/25 15:48	1
Anthracene	<0.020		0.020	ug/L		09/05/25 06:34	09/05/25 15:48	1
Atrazine	<0.049		0.049	ug/L		09/05/25 06:34	09/05/25 15:48	1
Benz(a)anthracene	<0.049		0.049	ug/L		09/05/25 06:34	09/05/25 15:48	1
Benzo[a]pyrene	<0.020		0.020	ug/L		09/05/25 06:34	09/05/25 15:48	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		09/05/25 06:34	09/05/25 15:48	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		09/05/25 06:34	09/05/25 15:48	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		09/05/25 06:34	09/05/25 15:48	1
beta-BHC	<0.098		0.098	ug/L		09/05/25 06:34	09/05/25 15:48	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		09/05/25 06:34	09/05/25 15:48	1
Bromacil	<0.098		0.098	ug/L		09/05/25 06:34	09/05/25 15:48	1
Butachlor	<0.049		0.049	ug/L		09/05/25 06:34	09/05/25 15:48	1
Butylbenzylphthalate	<0.49		0.49	ug/L		09/05/25 06:34	09/05/25 15:48	1
Chlorobenzilate	<0.098		0.098	ug/L		09/05/25 06:34	09/05/25 15:48	1
Chloroneb	<0.098		0.098	ug/L		09/05/25 06:34	09/05/25 15:48	1
Chlorothalonil (Draconil, Bravo)	<0.098		0.098	ug/L		09/05/25 06:34	09/05/25 15:48	1
Chlorpyrifos	<0.049		0.049	ug/L		09/05/25 06:34	09/05/25 15:48	1
Chrysene	<0.020		0.020	ug/L		09/05/25 06:34	09/05/25 15:48	1
delta-BHC	<0.098		0.098	ug/L		09/05/25 06:34	09/05/25 15:48	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		09/05/25 06:34	09/05/25 15:48	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		09/05/25 06:34	09/05/25 15:48	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		09/05/25 06:34	09/05/25 15:48	1
Dieldrin	<0.0098		0.0098	ug/L		09/05/25 06:34	09/05/25 15:48	1
Diethylphthalate	<0.49		0.49	ug/L		09/05/25 06:34	09/05/25 15:48	1
Dimethylphthalate	<0.49		0.49	ug/L		09/05/25 06:34	09/05/25 15:48	1
Di-n-butyl phthalate	<0.98		0.98	ug/L		09/05/25 06:34	09/05/25 15:48	1
Di-n-octyl phthalate	<0.098		0.098	ug/L		09/05/25 06:34	09/05/25 15:48	1
Endosulfan I (Alpha)	<0.098		0.098	ug/L		09/05/25 06:34	09/05/25 15:48	1
Endosulfan II (Beta)	<0.098		0.098	ug/L		09/05/25 06:34	09/05/25 15:48	1
Endosulfan sulfate	<0.098		0.098	ug/L		09/05/25 06:34	09/05/25 15:48	1
Endrin	<0.0098		0.0098	ug/L		09/05/25 06:34	09/05/25 15:48	1
Endrin aldehyde	<0.098		0.098	ug/L		09/05/25 06:34	09/05/25 15:48	1
EPTC	<0.098		0.098	ug/L		09/05/25 06:34	09/05/25 15:48	1
Fluoranthene	<0.098		0.098	ug/L		09/05/25 06:34	09/05/25 15:48	1
Fluorene	<0.049		0.049	ug/L		09/05/25 06:34	09/05/25 15:48	1
gamma-Chlordane	<0.049		0.049	ug/L		09/05/25 06:34	09/05/25 15:48	1
Heptachlor	<0.0098		0.0098	ug/L		09/05/25 06:34	09/05/25 15:48	1
Heptachlor epoxide (isomer B)	<0.0098		0.0098	ug/L		09/05/25 06:34	09/05/25 15:48	1

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# Client Sample Results

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

Job ID: 380-169541-1  
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

**Client Sample ID: AIEA GULCH WELLS PUMP 2  
(331-202-TP072)**

**Lab Sample ID: 380-169541-3**

**Date Collected: 09/02/25 11:29  
Date Received: 09/04/25 09:56**

**Matrix: Water  
PWSID Number: HI0000331**

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobenzene	<0.049		0.049	ug/L		09/05/25 06:34	09/05/25 15:48	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		09/05/25 06:34	09/05/25 15:48	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		09/05/25 06:34	09/05/25 15:48	1
Isophorone	<0.098		0.098	ug/L		09/05/25 06:34	09/05/25 15:48	1
Lindane	<0.0098		0.0098	ug/L		09/05/25 06:34	09/05/25 15:48	1
Malathion	<0.098		0.098	ug/L		09/05/25 06:34	09/05/25 15:48	1
Methoxychlor	<0.049		0.049	ug/L		09/05/25 06:34	09/05/25 15:48	1
Metolachlor	<0.049		0.049	ug/L		09/05/25 06:34	09/05/25 15:48	1
Molinate	<0.098		0.098	ug/L		09/05/25 06:34	09/05/25 15:48	1
Naphthalene	<0.098		0.098	ug/L		09/05/25 06:34	09/05/25 15:48	1
Parathion	<0.098		0.098	ug/L		09/05/25 06:34	09/05/25 15:48	1
Pendimethalin (Penoxaline)	<0.098		0.098	ug/L		09/05/25 06:34	09/05/25 15:48	1
Phenanthrene	<0.039		0.039	ug/L		09/05/25 06:34	09/05/25 15:48	1
Propachlor	<0.049		0.049	ug/L		09/05/25 06:34	09/05/25 15:48	1
Pyrene	<0.049		0.049	ug/L		09/05/25 06:34	09/05/25 15:48	1
Simazine	<0.049		0.049	ug/L		09/05/25 06:34	09/05/25 15:48	1
Terbacil	<0.098		0.098	ug/L		09/05/25 06:34	09/05/25 15:48	1
Terbutylazine	<0.098		0.098	ug/L		09/05/25 06:34	09/05/25 15:48	1
Thiobencarb	<0.098		0.098	ug/L		09/05/25 06:34	09/05/25 15:48	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		09/05/25 06:34	09/05/25 15:48	1
trans-Nonachlor	<0.049	^+	0.049	ug/L		09/05/25 06:34	09/05/25 15:48	1
Trifluralin	<0.098		0.098	ug/L		09/05/25 06:34	09/05/25 15:48	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	09/05/25 06:34	09/05/25 15:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	94		70 - 130	09/05/25 06:34	09/05/25 15:48	1
Perylene-d12	89		70 - 130	09/05/25 06:34	09/05/25 15:48	1
Triphenylphosphate	102		70 - 130	09/05/25 06:34	09/05/25 15:48	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.19	*1	0.19	ug/L		09/08/25 12:54	09/12/25 20:21	1
2-Methylnaphthalene	<0.19		0.19	ug/L		09/08/25 12:54	09/12/25 20:21	1
Acenaphthene	<0.19		0.19	ug/L		09/08/25 12:54	09/12/25 20:21	1
Acenaphthylene	<0.19		0.19	ug/L		09/08/25 12:54	09/12/25 20:21	1
Anthracene	<0.19		0.19	ug/L		09/08/25 12:54	09/12/25 20:21	1
Benzo[a]anthracene	<0.19		0.19	ug/L		09/08/25 12:54	09/12/25 20:21	1
Benzo[a]pyrene	<0.19		0.19	ug/L		09/08/25 12:54	09/12/25 20:21	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		09/08/25 12:54	09/12/25 20:21	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		09/08/25 12:54	09/12/25 20:21	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		09/08/25 12:54	09/12/25 20:21	1
Chrysene	<0.19		0.19	ug/L		09/08/25 12:54	09/12/25 20:21	1
Dibenz(a,h)anthracene	<0.19		0.19	ug/L		09/08/25 12:54	09/12/25 20:21	1
Fluoranthene	<0.19		0.19	ug/L		09/08/25 12:54	09/12/25 20:21	1
Fluorene	<0.19		0.19	ug/L		09/08/25 12:54	09/12/25 20:21	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		09/08/25 12:54	09/12/25 20:21	1
Naphthalene	<0.19		0.19	ug/L		09/08/25 12:54	09/12/25 20:21	1

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# Client Sample Results

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

Job ID: 380-169541-1  
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

**Client Sample ID: AIEA GULCH WELLS PUMP 2  
(331-202-TP072)**

**Lab Sample ID: 380-169541-3**

Date Collected: 09/02/25 11:29

Matrix: Water

Date Received: 09/04/25 09:56

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
Phenanthrene	<0.19		0.19	ug/L		09/08/25 12:54	09/12/25 20:21	1
Pyrene	<0.19	*+	0.19	ug/L		09/08/25 12:54	09/12/25 20:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	64		28 - 127			09/08/25 12:54	09/12/25 20:21	1
2-Fluorobiphenyl (Surr)	59		31 - 120			09/08/25 12:54	09/12/25 20:21	1
2-Fluorophenol (Surr)	45		17 - 120			09/08/25 12:54	09/12/25 20:21	1
Nitrobenzene-d5 (Surr)	61		27 - 120			09/08/25 12:54	09/12/25 20:21	1
Phenol-d6 (Surr)	29		10 - 120			09/08/25 12:54	09/12/25 20:21	1
p-Terphenyl-d14 (Surr)	73		45 - 120			09/08/25 12:54	09/12/25 20:21	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	09/08/25 12:54	09/17/25 16:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	59		33 - 139				09/08/25 12:54	09/17/25 16:15	1
2-Fluorobiphenyl (Surr)	67		33 - 126				09/08/25 12:54	09/17/25 16:15	1
2-Fluorophenol (Surr)	50		12 - 120				09/08/25 12:54	09/17/25 16:15	1
Nitrobenzene-d5 (Surr)	72		36 - 120				09/08/25 12:54	09/17/25 16:15	1
Phenol-d6 (Surr)	30		10 - 120				09/08/25 12:54	09/17/25 16:15	1
p-Terphenyl-d14 (Surr)	84		47 - 131				09/08/25 12:54	09/17/25 16:15	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			09/07/25 17:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	71		38 - 134				09/07/25 17:25	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		09/08/25 14:16	09/14/25 21:30	1
Motor Oil Range Organics [C24-C36]	<26		26	ug/L		09/08/25 14:16	09/14/25 21:30	1
C8-C18	<26		26	ug/L		09/08/25 14:16	09/14/25 21:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	84		60 - 130			09/08/25 14:16	09/14/25 21:30	1

**Client Sample ID: TB: AIEA GULCH WELLS PUMP 2  
(331-202-TP072)**

**Lab Sample ID: 380-169541-4**

Date Collected: 09/02/25 11:29

Matrix: Water

Date Received: 09/04/25 09:56

**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			09/07/25 21:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	68		38 - 134				09/07/25 21:34	1

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# Action Limit Summary

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

Job ID: 380-169541-1  
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

**Client Sample ID: AIEA GULCH WELLS PUMP 1**

**Lab Sample ID: 380-169541-1**

**(331-201-TP071)**

**PWSID Number: HI0000331**

## Compliance Check

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

Analyte	Result	Qualifier	Unit	EPAMCL	RL	Method	Prep Type
				Limit			
Alachlor	<0.050		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	<0.59		ug/L	6	0.59	525.2	Total/NA
Di(2-ethylhexyl)adipate	<0.59		ug/L	400	0.59	525.2	Total/NA
Endrin	<0.0099		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

**Client Sample ID: AIEA GULCH WELLS PUMP 2**

**Lab Sample ID: 380-169541-3**

**(331-202-TP072)**

**PWSID Number: HI0000331**

## Compliance Check

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

Analyte	Result	Qualifier	Unit	EPAMCL	RL	Method	Prep Type
				Limit			
Alachlor	<0.049		ug/L	2	0.049	525.2	Total/NA
Atrazine	<0.049		ug/L	3	0.049	525.2	Total/NA
Benzo[a]pyrene	<0.020		ug/L	0.2	0.020	525.2	Total/NA
Bis(2-ethylhexyl) phthalate	<0.59		ug/L	6	0.59	525.2	Total/NA
Di(2-ethylhexyl)adipate	<0.59		ug/L	400	0.59	525.2	Total/NA
Endrin	<0.0098		ug/L	2	0.0098	525.2	Total/NA
Heptachlor	<0.0098		ug/L	0.4	0.0098	525.2	Total/NA
Heptachlor epoxide (isomer B)	<0.0098		ug/L	0.2	0.0098	525.2	Total/NA
Hexachlorobenzene	<0.049		ug/L	1	0.049	525.2	Total/NA
Hexachlorocyclopentadiene	<0.049		ug/L	50	0.049	525.2	Total/NA
Lindane	<0.0098		ug/L	0.2	0.0098	525.2	Total/NA
Methoxychlor	<0.049		ug/L	40	0.049	525.2	Total/NA
Simazine	<0.049		ug/L	4	0.049	525.2	Total/NA
Benzo[a]pyrene	<0.19		ug/L	0.2	0.19	625.1 SIM	Total/NA

# Surrogate Summary

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

Job ID: 380-169541-1  
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

Matrix: Drinking 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)
380-169541-1	AIEA GULCH WELLS PUMP 1 (	94	87	104

**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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		2NMX (70-130)	PRY (70-130)	TPP (70-130)
380-169525-H-1-A MS	Matrix Spike	94	95	107
380-169530-H-1-A DU	Duplicate	96	90	105
380-169541-3	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	94	89	102
LCS 380-172509/23-A	Lab Control Sample	93	94	105
LCSD 380-172509/24-A	Lab Control Sample Dup	93	93	105
MB 380-172509/21-A	Method Blank	95	89	103
MRL 380-172509/22-A	Lab Control Sample	93	85	106

**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

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)
380-169541-1	AIEA GULCH WELLS PUMP 1 (	77	84	66	92	36	95

**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 - 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)
380-169541-3	AIEA GULCH WELLS PUMP 2 (	59	67	50	72	30	84
MB 570-622390/1-A	Method Blank	79	88	70	97	40	95

**Surrogate Legend**

# Surrogate Summary

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

Job ID: 380-169541-1  
 SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

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)
380-169541-1	AIEA GULCH WELLS PUMP 1 (	80	73	58	76	35	79

### 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)
380-169478-A-1-A MS	Matrix Spike	73	67	51	57	33	79
380-169478-A-1-B MSD	Matrix Spike Duplicate	87	82	67	68	42	85
380-169541-3	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	64	59	45	61	29	73
LCS 570-622390/2-A	Lab Control Sample	72	67	57	59	37	73
LCSD 570-622390/3-A	Lab Control Sample Dup	86	80	68	69	43	91
MB 570-622390/1-A	Method Blank	86	80	59	82	37	83

### Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)  
 FBP = 2-Fluorobiphenyl (Surr)  
 2FP = 2-Fluorophenol (Surr)  
 NBZ = Nitrobenzene-d5 (Surr)  
 PHL6 = Phenol-d6 (Surr)  
 TPHd14 = p-Terphenyl-d14 (Surr)

## Method: 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)
380-169530-C-1 MS	Matrix Spike	87
380-169530-C-1 MSD	Matrix Spike Duplicate	86
380-169541-3	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	71
380-169541-4	TB: AIEA GULCH WELLS PUMF 2 (331-202-TP072)	68
LCS 570-622036/4	Lab Control Sample	82
LCSD 570-622036/5	Lab Control Sample Dup	90

# Surrogate Summary

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

Job ID: 380-169541-1  
 SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

**Matrix: Water**

**Prep Type: Total/NA**

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (38-134)
MB 570-622036/6	Method Blank	67
MRL 570-622036/3	Lab Control Sample	72

**Surrogate Legend**

BFB = 4-Bromofluorobenzene (Surr)

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

**Matrix: Drinking Water**

**Prep Type: Total/NA**

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	OTCSN1 (60-130)
380-169541-1	AIEA GULCH WELLS PUMP 1 (	84

**Surrogate Legend**

OTCSN = n-Octacosane (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)
380-169530-B-1-A MS	Matrix Spike	85
380-169530-B-1-B MSD	Matrix Spike Duplicate	81
380-169541-3	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	84
LCS 570-622477/2-A	Lab Control Sample	91
LCSD 570-622477/3-A	Lab Control Sample Dup	97
MB 570-622477/1-A	Method Blank	86
MRL 570-622477/4-A	Lab Control Sample	87

**Surrogate Legend**

OTCSN = n-Octacosane (Surr)



# QC Sample Results

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

Job ID: 380-169541-1  
 SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

**Lab Sample ID: MB 380-172509/21-A**  
**Matrix: Water**  
**Analysis Batch: 172575**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 172509**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 14:26	1
2,4'-DDD	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 14:26	1
2,4'-DDE	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 14:26	1
2,4'-DDT	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 14:26	1
2,4-Dinitrotoluene	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 14:26	1
2,6-Dinitrotoluene	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 14:26	1
2-Methylnaphthalene	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 14:26	1
4,4'-DDD	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 14:26	1
4,4'-DDE	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 14:26	1
4,4'-DDT	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 14:26	1
Acenaphthene	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 14:26	1
Acenaphthylene	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 14:26	1
Acetochlor	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 14:26	1
Alachlor	<0.050		0.050	ug/L		09/05/25 06:34	09/05/25 14:26	1
alpha-BHC	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 14:26	1
alpha-Chlordane	<0.050		0.050	ug/L		09/05/25 06:34	09/05/25 14:26	1
Anthracene	<0.020		0.020	ug/L		09/05/25 06:34	09/05/25 14:26	1
Atrazine	<0.050		0.050	ug/L		09/05/25 06:34	09/05/25 14:26	1
Benz(a)anthracene	<0.050		0.050	ug/L		09/05/25 06:34	09/05/25 14:26	1
Benzo[a]pyrene	<0.020		0.020	ug/L		09/05/25 06:34	09/05/25 14:26	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		09/05/25 06:34	09/05/25 14:26	1
Benzo[g,h,i]perylene	<0.050		0.050	ug/L		09/05/25 06:34	09/05/25 14:26	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		09/05/25 06:34	09/05/25 14:26	1
beta-BHC	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 14:26	1
Bis(2-ethylhexyl) phthalate	<0.60		0.60	ug/L		09/05/25 06:34	09/05/25 14:26	1
Bromacil	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 14:26	1
Butachlor	<0.050		0.050	ug/L		09/05/25 06:34	09/05/25 14:26	1
Butylbenzylphthalate	<0.50		0.50	ug/L		09/05/25 06:34	09/05/25 14:26	1
Chlorobenzilate	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 14:26	1
Chloroneb	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 14:26	1
Chlorothalonil (Draconil, Bravo)	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 14:26	1
Chlorpyrifos	<0.050		0.050	ug/L		09/05/25 06:34	09/05/25 14:26	1
Chrysene	<0.020		0.020	ug/L		09/05/25 06:34	09/05/25 14:26	1
delta-BHC	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 14:26	1
Di(2-ethylhexyl)adipate	<0.60		0.60	ug/L		09/05/25 06:34	09/05/25 14:26	1
Dibenz(a,h)anthracene	<0.050		0.050	ug/L		09/05/25 06:34	09/05/25 14:26	1
Diclorvos (DDVP)	<0.050		0.050	ug/L		09/05/25 06:34	09/05/25 14:26	1
Dieldrin	<0.0099		0.0099	ug/L		09/05/25 06:34	09/05/25 14:26	1
Diethylphthalate	<0.50		0.50	ug/L		09/05/25 06:34	09/05/25 14:26	1
Dimethylphthalate	<0.50		0.50	ug/L		09/05/25 06:34	09/05/25 14:26	1
Di-n-butyl phthalate	<0.99		0.99	ug/L		09/05/25 06:34	09/05/25 14:26	1
Di-n-octyl phthalate	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 14:26	1
Endosulfan I (Alpha)	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 14:26	1
Endosulfan II (Beta)	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 14:26	1
Endosulfan sulfate	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 14:26	1
Endrin	<0.0099		0.0099	ug/L		09/05/25 06:34	09/05/25 14:26	1
Endrin aldehyde	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 14:26	1
EPTC	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 14:26	1

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# QC Sample Results

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

Job ID: 380-169541-1  
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

**Lab Sample ID: MB 380-172509/21-A**  
**Matrix: Water**  
**Analysis Batch: 172575**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 172509**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 14:26	1
Fluorene	<0.050		0.050	ug/L		09/05/25 06:34	09/05/25 14:26	1
gamma-Chlordane	<0.050		0.050	ug/L		09/05/25 06:34	09/05/25 14:26	1
Heptachlor	<0.0099		0.0099	ug/L		09/05/25 06:34	09/05/25 14:26	1
Heptachlor epoxide (isomer B)	<0.0099		0.0099	ug/L		09/05/25 06:34	09/05/25 14:26	1
Hexachlorobenzene	<0.050		0.050	ug/L		09/05/25 06:34	09/05/25 14:26	1
Hexachlorocyclopentadiene	<0.050		0.050	ug/L		09/05/25 06:34	09/05/25 14:26	1
Indeno[1,2,3-cd]pyrene	<0.050		0.050	ug/L		09/05/25 06:34	09/05/25 14:26	1
Isophorone	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 14:26	1
Lindane	<0.0099		0.0099	ug/L		09/05/25 06:34	09/05/25 14:26	1
Malathion	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 14:26	1
Methoxychlor	<0.050		0.050	ug/L		09/05/25 06:34	09/05/25 14:26	1
Metolachlor	<0.050		0.050	ug/L		09/05/25 06:34	09/05/25 14:26	1
Molinate	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 14:26	1
Naphthalene	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 14:26	1
Parathion	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 14:26	1
Pendimethalin (Penoxaline)	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 14:26	1
Phenanthrene	<0.040		0.040	ug/L		09/05/25 06:34	09/05/25 14:26	1
Propachlor	<0.050		0.050	ug/L		09/05/25 06:34	09/05/25 14:26	1
Pyrene	<0.050		0.050	ug/L		09/05/25 06:34	09/05/25 14:26	1
Simazine	<0.050		0.050	ug/L		09/05/25 06:34	09/05/25 14:26	1
Terbacil	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 14:26	1
Terbutylazine	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 14:26	1
Thiobencarb	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 14:26	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		09/05/25 06:34	09/05/25 14:26	1
trans-Nonachlor	<0.050		0.050	ug/L		09/05/25 06:34	09/05/25 14:26	1
Trifluralin	<0.099		0.099	ug/L		09/05/25 06:34	09/05/25 14:26	1

<i>Tentatively Identified Compound</i>	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
<i>Decane</i>	2.24	T J N	ug/L		2.69	124-18-5	09/05/25 06:34	09/05/25 14:26	1
<i>Phenol, p-tert-butyl-</i>	0.624	T J N	ug/L		3.78	98-54-4	09/05/25 06:34	09/05/25 14:26	1
<i>9-Octadecenamamide, (Z)-</i>	1.00	T J N	ug/L		7.75	301-02-0	09/05/25 06:34	09/05/25 14:26	1
<i>13-Docosenamamide, (Z)-</i>	0.597	T J N	ug/L		10.25	112-84-5	09/05/25 06:34	09/05/25 14:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>2-Nitro-m-xylene</i>	95		70 - 130	09/05/25 06:34	09/05/25 14:26	1
<i>Perylene-d12</i>	89		70 - 130	09/05/25 06:34	09/05/25 14:26	1
<i>Triphenylphosphate</i>	103		70 - 130	09/05/25 06:34	09/05/25 14:26	1

**Lab Sample ID: LCS 380-172509/23-A**  
**Matrix: Water**  
**Analysis Batch: 172575**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 172509**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1-Methylnaphthalene	1.98	1.86		ug/L		94	70 - 130
2,4'-DDD	1.98	2.18		ug/L		110	70 - 130
2,4'-DDE	1.98	2.06		ug/L		104	70 - 130
2,4'-DDT	1.98	1.97		ug/L		99	70 - 130

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# QC Sample Results

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

Job ID: 380-169541-1  
 SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

**Lab Sample ID: LCS 380-172509/23-A**  
**Matrix: Water**  
**Analysis Batch: 172575**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 172509**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4-Dinitrotoluene	1.98	1.91		ug/L		96	70 - 130
2,6-Dinitrotoluene	1.98	1.73		ug/L		87	70 - 130
2-Methylnaphthalene	1.98	1.87		ug/L		94	70 - 130
4,4'-DDD	1.98	2.12		ug/L		107	70 - 130
4,4'-DDE	1.98	2.03		ug/L		102	70 - 130
4,4'-DDT	1.98	1.92		ug/L		97	70 - 130
Acenaphthene	1.98	1.87		ug/L		95	70 - 130
Acenaphthylene	1.98	1.99		ug/L		101	70 - 130
Acetochlor	1.98	2.13		ug/L		107	70 - 130
Alachlor	1.98	2.06		ug/L		104	70 - 130
alpha-BHC	1.98	1.92		ug/L		97	70 - 130
alpha-Chlordane	1.98	2.34		ug/L		118	70 - 130
Anthracene	1.98	1.79		ug/L		90	70 - 130
Atrazine	1.98	2.08		ug/L		105	70 - 130
Benz(a)anthracene	1.98	1.89		ug/L		95	70 - 130
Benzo[a]pyrene	1.98	2.05		ug/L		103	70 - 130
Benzo[b]fluoranthene	1.98	2.04		ug/L		103	70 - 130
Benzo[g,h,i]perylene	1.98	1.81		ug/L		91	70 - 130
Benzo[k]fluoranthene	1.98	2.14		ug/L		108	70 - 130
beta-BHC	1.98	2.00		ug/L		101	70 - 130
Bis(2-ethylhexyl) phthalate	1.98	1.78		ug/L		90	70 - 130
Bromacil	1.98	1.92		ug/L		97	70 - 130
Butachlor	1.98	1.99		ug/L		100	70 - 130
Butylbenzylphthalate	1.98	1.94		ug/L		98	70 - 130
Chlorobenzilate	1.98	1.94		ug/L		98	70 - 130
Chloroneb	1.98	2.01		ug/L		102	70 - 130
Chlorothalonil (Draconil, Bravo)	1.98	2.16		ug/L		109	70 - 130
Chlorpyrifos	1.98	2.12		ug/L		107	70 - 130
Chrysene	1.98	1.97		ug/L		100	70 - 130
delta-BHC	1.98	1.89		ug/L		95	70 - 130
Di(2-ethylhexyl)adipate	1.98	1.89		ug/L		95	70 - 130
Dibenz(a,h)anthracene	1.98	1.90		ug/L		96	70 - 130
Diclorvos (DDVP)	1.98	2.06		ug/L		104	70 - 130
Dieldrin	1.98	2.03		ug/L		103	70 - 130
Diethylphthalate	1.98	2.07		ug/L		104	70 - 130
Dimethylphthalate	1.98	1.98		ug/L		100	70 - 130
Di-n-butyl phthalate	3.96	4.39		ug/L		111	70 - 130
Di-n-octyl phthalate	1.98	1.94		ug/L		98	70 - 130
Endosulfan I (Alpha)	1.98	2.00		ug/L		101	70 - 130
Endosulfan II (Beta)	1.98	1.91		ug/L		96	70 - 130
Endosulfan sulfate	1.98	1.96		ug/L		99	70 - 130
Endrin	1.98	2.28		ug/L		115	70 - 130
Endrin aldehyde	1.98	1.94		ug/L		98	60 - 130
EPTC	1.98	2.04		ug/L		103	70 - 130
Fluoranthene	1.98	2.01		ug/L		101	70 - 130
Fluorene	1.98	1.95		ug/L		98	70 - 130
gamma-Chlordane	1.98	2.31		ug/L		117	70 - 130
Heptachlor	1.98	2.21		ug/L		112	70 - 130
Heptachlor epoxide (isomer B)	1.98	2.12		ug/L		107	70 - 130

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# QC Sample Results

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

Job ID: 380-169541-1  
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

**Lab Sample ID: LCS 380-172509/23-A**  
**Matrix: Water**  
**Analysis Batch: 172575**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 172509**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Hexachlorobenzene	1.98	2.03		ug/L		102	70 - 130
Hexachlorocyclopentadiene	1.98	2.22		ug/L		112	70 - 130
Indeno[1,2,3-cd]pyrene	1.98	2.07		ug/L		104	70 - 130
Isophorone	1.98	2.14		ug/L		108	70 - 130
Lindane	1.98	2.11		ug/L		107	70 - 130
Malathion	1.98	1.95		ug/L		99	70 - 130
Methoxychlor	1.98	2.14		ug/L		108	70 - 130
Metolachlor	1.98	2.15		ug/L		108	70 - 130
Molinate	1.98	2.05		ug/L		103	70 - 130
Naphthalene	1.98	1.92		ug/L		97	70 - 130
Parathion	1.98	1.88		ug/L		95	70 - 130
Pendimethalin (Penoxaline)	1.98	2.11		ug/L		106	70 - 130
Phenanthrene	1.98	1.80		ug/L		91	70 - 130
Propachlor	1.98	2.02		ug/L		102	70 - 130
Pyrene	1.98	2.08		ug/L		105	70 - 130
Simazine	1.98	1.93		ug/L		97	70 - 130
Terbacil	1.98	2.07		ug/L		104	70 - 130
Terbutylazine	1.98	2.08		ug/L		105	70 - 130
Thiobencarb	1.98	2.01		ug/L		101	70 - 130
trans-Nonachlor	1.98	2.38		ug/L		120	70 - 130
Trifluralin	1.98	2.11		ug/L		106	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Nitro-m-xylene	93		70 - 130
Perylene-d12	94		70 - 130
Triphenylphosphate	105		70 - 130

**Lab Sample ID: LCSD 380-172509/24-A**  
**Matrix: Water**  
**Analysis Batch: 172575**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 172509**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	1.99	1.88		ug/L		95	70 - 130	1	20
2,4'-DDD	1.99	2.19		ug/L		110	70 - 130	1	20
2,4'-DDE	1.99	2.09		ug/L		105	70 - 130	1	20
2,4'-DDT	1.99	1.98		ug/L		100	70 - 130	1	20
2,4-Dinitrotoluene	1.99	1.91		ug/L		96	70 - 130	0	20
2,6-Dinitrotoluene	1.99	1.72		ug/L		87	70 - 130	0	20
2-Methylnaphthalene	1.99	1.86		ug/L		94	70 - 130	0	20
4,4'-DDD	1.99	2.14		ug/L		108	70 - 130	1	20
4,4'-DDE	1.99	2.00		ug/L		101	70 - 130	1	20
4,4'-DDT	1.99	1.89		ug/L		95	70 - 130	1	20
Acenaphthene	1.99	1.86		ug/L		94	70 - 130	1	20
Acenaphthylene	1.99	2.02		ug/L		101	70 - 130	1	20
Acetochlor	1.99	2.09		ug/L		105	70 - 130	2	20
Alachlor	1.99	2.04		ug/L		103	70 - 130	1	20
alpha-BHC	1.99	1.98		ug/L		100	70 - 130	3	20
alpha-Chlordane	1.99	2.35		ug/L		118	70 - 130	1	20

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# QC Sample Results

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

Job ID: 380-169541-1  
 SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

**Lab Sample ID: LCSD 380-172509/24-A**  
**Matrix: Water**  
**Analysis Batch: 172575**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 172509**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Anthracene	1.99	1.82		ug/L		91	70 - 130	2	20	
Atrazine	1.99	2.06		ug/L		103	70 - 130	1	20	
Benz(a)anthracene	1.99	1.91		ug/L		96	70 - 130	1	20	
Benzo[a]pyrene	1.99	2.08		ug/L		105	70 - 130	2	20	
Benzo[b]fluoranthene	1.99	2.07		ug/L		104	70 - 130	1	20	
Benzo[g,h,i]perylene	1.99	1.85		ug/L		93	70 - 130	2	20	
Benzo[k]fluoranthene	1.99	2.18		ug/L		110	70 - 130	2	20	
beta-BHC	1.99	2.00		ug/L		101	70 - 130	0	20	
Bis(2-ethylhexyl) phthalate	1.99	1.77		ug/L		89	70 - 130	1	20	
Bromacil	1.99	1.93		ug/L		97	70 - 130	0	20	
Butachlor	1.99	2.03		ug/L		102	70 - 130	2	20	
Butylbenzylphthalate	1.99	1.93		ug/L		97	70 - 130	1	20	
Chlorobenzilate	1.99	1.95		ug/L		98	70 - 130	1	20	
Chloroneb	1.99	1.99		ug/L		100	70 - 130	1	20	
Chlorothalonil (Draconil, Bravo)	1.99	2.18		ug/L		110	70 - 130	1	20	
Chlorpyrifos	1.99	2.13		ug/L		107	70 - 130	1	20	
Chrysene	1.99	2.05		ug/L		103	70 - 130	4	20	
delta-BHC	1.99	1.88		ug/L		95	70 - 130	0	20	
Di(2-ethylhexyl)adipate	1.99	1.82		ug/L		92	70 - 130	3	20	
Dibenz(a,h)anthracene	1.99	1.87		ug/L		94	70 - 130	2	20	
Diclorvos (DDVP)	1.99	1.98		ug/L		100	70 - 130	4	20	
Dieldrin	1.99	2.05		ug/L		103	70 - 130	1	20	
Diethylphthalate	1.99	2.07		ug/L		104	70 - 130	0	20	
Dimethylphthalate	1.99	1.97		ug/L		99	70 - 130	0	20	
Di-n-butyl phthalate	3.97	4.43		ug/L		112	70 - 130	1	20	
Di-n-octyl phthalate	1.99	1.91		ug/L		96	70 - 130	1	20	
Endosulfan I (Alpha)	1.99	2.03		ug/L		102	70 - 130	1	20	
Endosulfan II (Beta)	1.99	1.90		ug/L		96	70 - 130	0	20	
Endosulfan sulfate	1.99	1.97		ug/L		99	70 - 130	1	20	
Endrin	1.99	2.30		ug/L		116	70 - 130	1	20	
Endrin aldehyde	1.99	2.01		ug/L		101	60 - 130	4	20	
EPTC	1.99	2.06		ug/L		104	70 - 130	1	20	
Fluoranthene	1.99	2.03		ug/L		102	70 - 130	1	20	
Fluorene	1.99	1.95		ug/L		98	70 - 130	0	20	
gamma-Chlordane	1.99	2.30		ug/L		116	70 - 130	1	20	
Heptachlor	1.99	2.27		ug/L		114	70 - 130	2	20	
Heptachlor epoxide (isomer B)	1.99	2.11		ug/L		106	70 - 130	0	20	
Hexachlorobenzene	1.99	2.02		ug/L		102	70 - 130	0	20	
Hexachlorocyclopentadiene	1.99	2.16		ug/L		109	70 - 130	3	20	
Indeno[1,2,3-cd]pyrene	1.99	2.00		ug/L		101	70 - 130	3	20	
Isophorone	1.99	2.15		ug/L		108	70 - 130	0	20	
Lindane	1.99	2.15		ug/L		108	70 - 130	2	20	
Malathion	1.99	1.95		ug/L		98	70 - 130	0	20	
Methoxychlor	1.99	2.21		ug/L		111	70 - 130	3	20	
Metolachlor	1.99	2.15		ug/L		108	70 - 130	0	20	
Molinate	1.99	2.03		ug/L		102	70 - 130	1	20	
Naphthalene	1.99	1.90		ug/L		96	70 - 130	1	20	
Parathion	1.99	1.91		ug/L		96	70 - 130	1	20	
Pendimethalin (Penoxaline)	1.99	2.18		ug/L		110	70 - 130	3	20	

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-169541-1  
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

**Lab Sample ID: LCSD 380-172509/24-A**  
**Matrix: Water**  
**Analysis Batch: 172575**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 172509**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenanthrene	1.99	1.81		ug/L		91	70 - 130	1	20
Propachlor	1.99	2.07		ug/L		104	70 - 130	2	20
Pyrene	1.99	2.09		ug/L		105	70 - 130	0	20
Simazine	1.99	1.86		ug/L		94	70 - 130	4	20
Terbacil	1.99	2.04		ug/L		103	70 - 130	1	20
Terbutylazine	1.99	2.11		ug/L		106	70 - 130	1	20
Thiobencarb	1.99	2.04		ug/L		103	70 - 130	2	20
trans-Nonachlor	1.99	2.39		ug/L		120	70 - 130	0	20
Trifluralin	1.99	2.15		ug/L		108	70 - 130	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Nitro-m-xylene	93		70 - 130
Perylene-d12	93		70 - 130
Triphenylphosphate	105		70 - 130

**Lab Sample ID: MRL 380-172509/22-A**  
**Matrix: Water**  
**Analysis Batch: 172575**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 172509**

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	0.0994	0.109		ug/L		110	50 - 150
2,4'-DDD	0.0994	0.0861	J	ug/L		87	50 - 150
2,4'-DDE	0.0994	0.0960	J	ug/L		97	50 - 150
2,4'-DDT	0.0994	0.109		ug/L		110	50 - 150
2,4-Dinitrotoluene	0.0994	0.0858	J	ug/L		86	50 - 150
2,6-Dinitrotoluene	0.0994	0.0886	J	ug/L		89	50 - 150
2-Methylnaphthalene	0.0994	0.0973	J	ug/L		98	50 - 150
4,4'-DDD	0.0994	0.0909	J	ug/L		91	50 - 150
4,4'-DDE	0.0994	0.0862	J	ug/L		87	50 - 150
4,4'-DDT	0.0994	0.114		ug/L		115	50 - 150
Acenaphthene	0.0994	0.0893	J	ug/L		90	50 - 150
Acenaphthylene	0.0994	0.0831	J	ug/L		84	50 - 150
Acetochlor	0.0994	0.102		ug/L		103	50 - 150
Alachlor	0.0497	0.0483	J	ug/L		97	50 - 150
alpha-BHC	0.0994	0.0910	J	ug/L		92	50 - 150
alpha-Chlordane	0.0249	<0.029		ug/L		95	50 - 150
Anthracene	0.0199	0.0200		ug/L		101	50 - 150
Atrazine	0.0497	0.0482	J	ug/L		97	50 - 150
Benz(a)anthracene	0.0497	0.0454	J	ug/L		91	50 - 150
Benzo[a]pyrene	0.0199	0.0206		ug/L		104	50 - 150
Benzo[b]fluoranthene	0.0199	0.0218		ug/L		109	50 - 150
Benzo[g,h,i]perylene	0.0497	0.0538		ug/L		108	50 - 150
Benzo[k]fluoranthene	0.0199	0.0225		ug/L		113	50 - 150
beta-BHC	0.0994	0.0988	J	ug/L		99	50 - 150
Bis(2-ethylhexyl) phthalate	0.596	0.512	J	ug/L		86	50 - 150
Bromacil	0.0994	0.116		ug/L		116	50 - 150
Butachlor	0.0497	0.0577		ug/L		116	50 - 150
Butylbenzylphthalate	0.497	0.496	J	ug/L		100	50 - 150

# QC Sample Results

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

Job ID: 380-169541-1  
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

**Lab Sample ID: MRL 380-172509/22-A**  
**Matrix: Water**  
**Analysis Batch: 172575**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 172509**

Analyte	Spike	MRL	MRL	Unit	D	%Rec	%Rec Limits
	Added	Result	Qualifier				
Chlorobenzilate	0.0994	0.103		ug/L		104	50 - 150
Chloroneb	0.0994	0.0931	J	ug/L		94	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0994	0.0801	J	ug/L		81	50 - 150
Chlorpyrifos	0.0497	0.0468	J	ug/L		94	50 - 150
Chrysene	0.0199	0.0142	J	ug/L		71	50 - 150
delta-BHC	0.0994	0.0858	J	ug/L		86	50 - 150
Di(2-ethylhexyl)adipate	0.596	0.579	J	ug/L		97	50 - 150
Dibenz(a,h)anthracene	0.0497	0.0519		ug/L		105	50 - 150
Diclorvos (DDVP)	0.0497	0.0510		ug/L		103	50 - 150
Dieldrin	0.00994	0.0125		ug/L		126	50 - 150
Diethylphthalate	0.497	0.493	J	ug/L		99	50 - 150
Dimethylphthalate	0.497	0.471	J	ug/L		95	50 - 150
Di-n-butyl phthalate	0.497	0.625	J	ug/L		126	49 - 243
Di-n-octyl phthalate	0.0994	0.0957	J	ug/L		96	50 - 150
Endosulfan I (Alpha)	0.0994	0.0833	J	ug/L		84	50 - 150
Endosulfan II (Beta)	0.0994	0.0915	J	ug/L		92	50 - 150
Endosulfan sulfate	0.0994	0.112		ug/L		113	50 - 150
Endrin	0.00994	0.00814	J	ug/L		82	50 - 150
Endrin aldehyde	0.0994	0.122		ug/L		122	50 - 150
EPTC	0.0994	0.0927	J	ug/L		93	50 - 150
Fluoranthene	0.0994	0.0822	J	ug/L		83	50 - 150
Fluorene	0.0497	<0.050		ug/L		86	50 - 150
gamma-Chlordane	0.0249	0.0218	J	ug/L		88	50 - 150
Heptachlor	0.00994	0.0114		ug/L		115	50 - 150
Heptachlor epoxide (isomer B)	0.00994	0.0100		ug/L		101	50 - 150
Hexachlorobenzene	0.0497	0.0466	J	ug/L		94	50 - 150
Hexachlorocyclopentadiene	0.0497	0.0399	J	ug/L		80	50 - 150
Indeno[1,2,3-cd]pyrene	0.0497	0.0490	J	ug/L		99	50 - 150
Isophorone	0.0994	0.119		ug/L		120	50 - 150
Lindane	0.00994	0.0118		ug/L		118	50 - 150
Malathion	0.0994	0.100		ug/L		101	50 - 150
Methoxychlor	0.0497	0.0549		ug/L		111	50 - 150
Metolachlor	0.0497	0.0536		ug/L		108	50 - 150
Molinate	0.0994	0.0932	J	ug/L		94	50 - 150
Naphthalene	0.0994	0.107		ug/L		107	50 - 150
Parathion	0.0994	0.0913	J	ug/L		92	50 - 150
Pendimethalin (Penoxaline)	0.0994	0.101		ug/L		102	50 - 150
Phenanthrene	0.0398	0.0361	J	ug/L		91	50 - 150
Propachlor	0.0497	0.0532		ug/L		107	50 - 150
Pyrene	0.0497	0.0424	J	ug/L		85	50 - 150
Simazine	0.0497	0.0532		ug/L		107	50 - 150
Terbacil	0.0994	0.117		ug/L		118	50 - 150
Terbutylazine	0.0994	0.101		ug/L		102	50 - 150
Thiobencarb	0.0994	0.0882	J	ug/L		89	50 - 150
trans-Nonachlor	0.0249	<0.026		ug/L		99	50 - 150
Trifluralin	0.0994	0.103		ug/L		103	50 - 150

# QC Sample Results

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

Job ID: 380-169541-1  
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

**Lab Sample ID: MRL 380-172509/22-A**  
**Matrix: Water**  
**Analysis Batch: 172575**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 172509**

<i>Surrogate</i>	<i>MRL %Recovery</i>	<i>MRL Qualifier</i>	<i>Limits</i>
2-Nitro-m-xylene	93		70 - 130
Perylene-d12	85		70 - 130
Triphenylphosphate	106		70 - 130

**Lab Sample ID: 380-169525-H-1-A MS**  
**Matrix: Water**  
**Analysis Batch: 172575**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 172509**

<b>Analyte</b>	<b>Sample Result</b>	<b>Sample Qualifier</b>	<b>Spike Added</b>	<b>MS Result</b>	<b>MS Qualifier</b>	<b>Unit</b>	<b>D</b>	<b>%Rec</b>	<b>%Rec Limits</b>
1-Methylnaphthalene	<0.098		1.94	1.85		ug/L		95	70 - 130
2,4'-DDD	<0.098		1.94	2.18		ug/L		113	70 - 130
2,4'-DDE	<0.098		1.94	2.03		ug/L		105	70 - 130
2,4'-DDT	<0.098		1.94	1.92		ug/L		99	70 - 130
2,4-Dinitrotoluene	<0.098		1.94	1.94		ug/L		100	70 - 130
2,6-Dinitrotoluene	<0.098		1.94	1.74		ug/L		90	70 - 130
2-Methylnaphthalene	<0.098		1.94	1.84		ug/L		95	70 - 130
4,4'-DDD	<0.098		1.94	2.09		ug/L		108	70 - 130
4,4'-DDE	<0.098		1.94	1.92		ug/L		99	70 - 130
4,4'-DDT	<0.098		1.94	1.86		ug/L		96	70 - 130
Acenaphthene	<0.098		1.94	1.84		ug/L		95	70 - 130
Acenaphthylene	<0.098		1.94	1.98		ug/L		102	70 - 130
Acetochlor	<0.098		1.94	2.10		ug/L		109	70 - 130
Alachlor	<0.049		1.94	2.01		ug/L		104	70 - 130
alpha-BHC	<0.098		1.94	1.90		ug/L		98	70 - 130
alpha-Chlordane	<0.049		1.94	2.36		ug/L		120	70 - 130
Anthracene	<0.020		1.94	1.78		ug/L		92	70 - 130
Atrazine	<0.049		1.94	2.06		ug/L		106	70 - 130
Benz(a)anthracene	<0.049		1.94	1.90		ug/L		98	70 - 130
Benzo[a]pyrene	<0.020		1.94	2.06		ug/L		106	70 - 130
Benzo[b]fluoranthene	<0.020		1.94	2.04		ug/L		105	70 - 130
Benzo[g,h,i]perylene	<0.049		1.94	1.82		ug/L		94	70 - 130
Benzo[k]fluoranthene	<0.020		1.94	2.13		ug/L		110	70 - 130
beta-BHC	<0.098		1.94	1.97		ug/L		102	70 - 130
Bis(2-ethylhexyl) phthalate	<0.59		1.94	1.63		ug/L		84	70 - 130
Bromacil	<0.098		1.94	1.96		ug/L		99	70 - 130
Butachlor	<0.049		1.94	1.99		ug/L		103	70 - 130
Butylbenzylphthalate	<0.49		1.94	1.93		ug/L		100	70 - 130
Chlorobenzilate	<0.098		1.94	1.92		ug/L		99	70 - 130
Chloroneb	<0.098		1.94	1.96		ug/L		101	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.098		1.94	2.11		ug/L		109	70 - 130
Chlorpyrifos	<0.049		1.94	2.07		ug/L		107	70 - 130
Chrysene	<0.020		1.94	1.98		ug/L		102	70 - 130
delta-BHC	<0.098		1.94	1.86		ug/L		96	70 - 130
Di(2-ethylhexyl)adipate	<0.59		1.94	1.74		ug/L		90	70 - 130
Dibenz(a,h)anthracene	<0.049		1.94	1.85		ug/L		96	70 - 130
Diclorvos (DDVP)	<0.049		1.94	1.98		ug/L		102	70 - 130
Dieldrin	0.072		1.94	2.10		ug/L		105	70 - 130
Diethylphthalate	<0.49		1.94	2.03		ug/L		105	70 - 130





# QC Sample Results

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

Job ID: 380-169541-1  
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

**Lab Sample ID: 380-169530-H-1-A DU**  
**Matrix: Water**  
**Analysis Batch: 172575**

**Client Sample ID: Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 172509**

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
2,4'-DDE	<0.098		<0.098		ug/L		NC	20
2,4'-DDT	<0.098		<0.098		ug/L		NC	20
2,4-Dinitrotoluene	<0.098		<0.098		ug/L		NC	20
2,6-Dinitrotoluene	<0.098		<0.098		ug/L		NC	20
2-Methylnaphthalene	<0.098		<0.098		ug/L		NC	20
4,4'-DDD	<0.098		<0.098		ug/L		NC	20
4,4'-DDE	<0.098		<0.098		ug/L		NC	20
4,4'-DDT	<0.098		<0.098		ug/L		NC	20
Acenaphthene	<0.098		<0.098		ug/L		NC	20
Acenaphthylene	<0.098		<0.098		ug/L		NC	20
Acetochlor	<0.098		<0.098		ug/L		NC	20
Alachlor	<0.049		<0.049		ug/L		NC	20
alpha-BHC	<0.098		<0.098		ug/L		NC	20
alpha-Chlordane	<0.049		<0.049		ug/L		NC	20
Anthracene	<0.020		<0.020		ug/L		NC	20
Atrazine	<0.049		<0.049		ug/L		NC	20
Benz(a)anthracene	<0.049		<0.049		ug/L		NC	20
Benzo[a]pyrene	<0.020		<0.020		ug/L		NC	20
Benzo[b]fluoranthene	<0.020		<0.020		ug/L		NC	20
Benzo[g,h,i]perylene	<0.049		<0.049		ug/L		NC	20
Benzo[k]fluoranthene	<0.020		<0.020		ug/L		NC	20
beta-BHC	<0.098		<0.098		ug/L		NC	20
Bis(2-ethylhexyl) phthalate	<0.59		<0.59		ug/L		NC	20
Bromacil	<0.098		<0.098		ug/L		NC	20
Butachlor	<0.049		<0.049		ug/L		NC	20
Butylbenzylphthalate	<0.49		<0.49		ug/L		NC	20
Chlorobenzilate	<0.098		<0.098		ug/L		NC	20
Chloroneb	<0.098		<0.098		ug/L		NC	20
Chlorothalonil (Draconil, Bravo)	<0.098		<0.098		ug/L		NC	20
Chlorpyrifos	<0.049		<0.049		ug/L		NC	20
Chrysene	<0.020		<0.020		ug/L		NC	20
delta-BHC	<0.098		<0.098		ug/L		NC	20
Di(2-ethylhexyl)adipate	<0.59		<0.59		ug/L		NC	20
Dibenz(a,h)anthracene	<0.049		<0.049		ug/L		NC	20
Diclorvos (DDVP)	<0.049		<0.049		ug/L		NC	20
Dieldrin	0.034		0.0395		ug/L		15	20
Diethylphthalate	<0.49		<0.49		ug/L		NC	20
Dimethylphthalate	<0.49		<0.49		ug/L		NC	20
Di-n-butyl phthalate	<0.98		<0.98		ug/L		NC	20
Di-n-octyl phthalate	<0.098		<0.098		ug/L		NC	20
Endosulfan I (Alpha)	<0.098		<0.098		ug/L		NC	20
Endosulfan II (Beta)	<0.098		<0.098		ug/L		NC	20
Endosulfan sulfate	<0.098		<0.098		ug/L		NC	20
Endrin	<0.0098		<0.0098		ug/L		NC	20
Endrin aldehyde	<0.098		<0.098		ug/L		NC	20
EPTC	<0.098		<0.098		ug/L		NC	20
Fluoranthene	<0.098		<0.098		ug/L		NC	20
Fluorene	<0.049		<0.049		ug/L		NC	20
gamma-Chlordane	<0.049		<0.049		ug/L		NC	20

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# QC Sample Results

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

Job ID: 380-169541-1  
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

**Lab Sample ID: 380-169530-H-1-A DU**  
**Matrix: Water**  
**Analysis Batch: 172575**

**Client Sample ID: Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 172509**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Heptachlor	<0.0098		<0.0098		ug/L		NC	20
Heptachlor epoxide (isomer B)	0.014		0.0118		ug/L		18	20
Hexachlorobenzene	<0.049		<0.049		ug/L		NC	20
Hexachlorocyclopentadiene	<0.049		<0.049		ug/L		NC	20
Indeno[1,2,3-cd]pyrene	<0.049		<0.049		ug/L		NC	20
Isophorone	<0.098		<0.098		ug/L		NC	20
Lindane	<0.0098		<0.0098		ug/L		NC	20
Malathion	<0.098		<0.098		ug/L		NC	20
Methoxychlor	<0.049		<0.049		ug/L		NC	20
Metolachlor	<0.049		<0.049		ug/L		NC	20
Molinate	<0.098		<0.098		ug/L		NC	20
Naphthalene	<0.098		<0.098		ug/L		NC	20
Parathion	<0.098		<0.098		ug/L		NC	20
Pendimethalin (Penoxaline)	<0.098		<0.098		ug/L		NC	20
Phenanthrene	<0.039		<0.039		ug/L		NC	20
Propachlor	<0.049		<0.049		ug/L		NC	20
Pyrene	<0.049		<0.049		ug/L		NC	20
Simazine	<0.049		<0.049		ug/L		NC	20
Terbacil	<0.098		<0.098		ug/L		NC	20
Terbutylazine	<0.098		<0.098		ug/L		NC	20
Thiobencarb	<0.098		<0.098		ug/L		NC	20
Total Permethrin (mixed isomers)	<0.20		<0.20		ug/L		NC	20
trans-Nonachlor	<0.049	^+	<0.049		ug/L		NC	20
Trifluralin	<0.098		<0.098		ug/L		NC	20

Surrogate	DU %Recovery	DU Qualifier	Limits
2-Nitro-m-xylene	96		70 - 130
Perylene-d12	90		70 - 130
Triphenylphosphate	105		70 - 130

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

**Lab Sample ID: MB 570-622390/1-A**  
**Matrix: Water**  
**Analysis Batch: 626824**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 622390**

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	09/08/25 12:54	09/17/25 13:48	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	79		33 - 139	09/08/25 12:54	09/17/25 13:48	1
2-Fluorobiphenyl (Surr)	88		33 - 126	09/08/25 12:54	09/17/25 13:48	1
2-Fluorophenol (Surr)	70		12 - 120	09/08/25 12:54	09/17/25 13:48	1
Nitrobenzene-d5 (Surr)	97		36 - 120	09/08/25 12:54	09/17/25 13:48	1
Phenol-d6 (Surr)	40		10 - 120	09/08/25 12:54	09/17/25 13:48	1
p-Terphenyl-d14 (Surr)	95		47 - 131	09/08/25 12:54	09/17/25 13:48	1

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# QC Sample Results

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

Job ID: 380-169541-1  
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

**Lab Sample ID: MB 570-622390/1-A**  
**Matrix: Water**  
**Analysis Batch: 624441**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 622390**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.20		0.20	ug/L		09/08/25 12:54	09/12/25 04:48	1
2-Methylnaphthalene	<0.20		0.20	ug/L		09/08/25 12:54	09/12/25 04:48	1
Acenaphthene	<0.20		0.20	ug/L		09/08/25 12:54	09/12/25 04:48	1
Acenaphthylene	<0.20		0.20	ug/L		09/08/25 12:54	09/12/25 04:48	1
Anthracene	<0.20		0.20	ug/L		09/08/25 12:54	09/12/25 04:48	1
Benzo[a]anthracene	<0.20		0.20	ug/L		09/08/25 12:54	09/12/25 04:48	1
Benzo[a]pyrene	<0.20		0.20	ug/L		09/08/25 12:54	09/12/25 04:48	1
Benzo[b]fluoranthene	<0.20		0.20	ug/L		09/08/25 12:54	09/12/25 04:48	1
Benzo[g,h,i]perylene	<0.20		0.20	ug/L		09/08/25 12:54	09/12/25 04:48	1
Benzo[k]fluoranthene	<0.20		0.20	ug/L		09/08/25 12:54	09/12/25 04:48	1
Chrysene	<0.20		0.20	ug/L		09/08/25 12:54	09/12/25 04:48	1
Dibenz(a,h)anthracene	<0.20		0.20	ug/L		09/08/25 12:54	09/12/25 04:48	1
Fluoranthene	<0.20		0.20	ug/L		09/08/25 12:54	09/12/25 04:48	1
Fluorene	<0.20		0.20	ug/L		09/08/25 12:54	09/12/25 04:48	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20	ug/L		09/08/25 12:54	09/12/25 04:48	1
Naphthalene	<0.20		0.20	ug/L		09/08/25 12:54	09/12/25 04:48	1
Phenanthrene	<0.20		0.20	ug/L		09/08/25 12:54	09/12/25 04:48	1
Pyrene	<0.20		0.20	ug/L		09/08/25 12:54	09/12/25 04:48	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	86		28 - 127	09/08/25 12:54	09/12/25 04:48	1
2-Fluorobiphenyl (Surr)	80		31 - 120	09/08/25 12:54	09/12/25 04:48	1
2-Fluorophenol (Surr)	59		17 - 120	09/08/25 12:54	09/12/25 04:48	1
Nitrobenzene-d5 (Surr)	82		27 - 120	09/08/25 12:54	09/12/25 04:48	1
Phenol-d6 (Surr)	37		10 - 120	09/08/25 12:54	09/12/25 04:48	1
p-Terphenyl-d14 (Surr)	83		45 - 120	09/08/25 12:54	09/12/25 04:48	1

**Lab Sample ID: LCS 570-622390/2-A**  
**Matrix: Water**  
**Analysis Batch: 624441**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 622390**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	20.0	15.5		ug/L		77	47 - 120
2-Methylnaphthalene	20.0	15.6		ug/L		78	43 - 120
Acenaphthene	20.0	18.3		ug/L		92	60 - 132
Acenaphthylene	20.0	18.7		ug/L		94	54 - 126
Anthracene	20.0	18.5		ug/L		93	43 - 120
Benzo[a]anthracene	20.0	19.1		ug/L		96	42 - 133
Benzo[a]pyrene	20.0	19.9		ug/L		99	32 - 148
Benzo[b]fluoranthene	20.0	19.5		ug/L		97	42 - 140
Benzo[g,h,i]perylene	20.0	19.8		ug/L		99	1 - 195
Benzo[k]fluoranthene	20.0	19.3		ug/L		97	25 - 146
Chrysene	20.0	19.2		ug/L		96	44 - 140
Dibenz(a,h)anthracene	20.0	19.9		ug/L		99	1 - 200
Fluoranthene	20.0	18.9		ug/L		95	43 - 121
Fluorene	20.0	18.9		ug/L		95	70 - 120
Indeno[1,2,3-cd]pyrene	20.0	19.0		ug/L		95	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: 380-169541-1  
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

**Lab Sample ID: LCS 570-622390/2-A**  
**Matrix: Water**  
**Analysis Batch: 624441**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 622390**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phenanthrene	20.0	18.7		ug/L		93	65 - 120
Pyrene	20.0	19.5		ug/L		98	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	72		28 - 127
2-Fluorobiphenyl (Surr)	67		31 - 120
2-Fluorophenol (Surr)	57		17 - 120
Nitrobenzene-d5 (Surr)	59		27 - 120
Phenol-d6 (Surr)	37		10 - 120
p-Terphenyl-d14 (Surr)	73		45 - 120

**Lab Sample ID: LCSD 570-622390/3-A**  
**Matrix: Water**  
**Analysis Batch: 624441**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 622390**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
1-Methylnaphthalene	20.0	19.3	*1	ug/L		96	47 - 120	22	20
2-Methylnaphthalene	20.0	19.0		ug/L		95	43 - 120	20	20
Acenaphthene	20.0	23.0		ug/L		115	60 - 132	23	29
Acenaphthylene	20.0	23.2		ug/L		116	54 - 126	21	45
Anthracene	20.0	22.9		ug/L		115	43 - 120	21	40
Benzo[a]anthracene	20.0	25.8		ug/L		129	42 - 133	30	32
Benzo[a]pyrene	20.0	25.9		ug/L		129	32 - 148	26	43
Benzo[b]fluoranthene	20.0	26.0		ug/L		130	42 - 140	29	43
Benzo[g,h,i]perylene	20.0	25.9		ug/L		129	1 - 195	26	61
Benzo[k]fluoranthene	20.0	25.2		ug/L		126	25 - 146	26	38
Chrysene	20.0	25.6		ug/L		128	44 - 140	28	53
Dibenz(a,h)anthracene	20.0	26.3		ug/L		131	1 - 200	28	75
Fluoranthene	20.0	23.9		ug/L		120	43 - 121	23	40
Fluorene	20.0	23.4		ug/L		117	70 - 120	21	23
Indeno[1,2,3-cd]pyrene	20.0	25.1		ug/L		125	1 - 151	28	60
Naphthalene	20.0	18.9		ug/L		94	36 - 120	22	39
Phenanthrene	20.0	23.8		ug/L		119	65 - 120	24	24
Pyrene	20.0	25.9	*+	ug/L		130	70 - 120	28	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	86		28 - 127
2-Fluorobiphenyl (Surr)	80		31 - 120
2-Fluorophenol (Surr)	68		17 - 120
Nitrobenzene-d5 (Surr)	69		27 - 120
Phenol-d6 (Surr)	43		10 - 120
p-Terphenyl-d14 (Surr)	91		45 - 120

# QC Sample Results

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

Job ID: 380-169541-1  
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

**Lab Sample ID: 380-169478-A-1-A MS**  
**Matrix: Water**  
**Analysis Batch: 624441**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 622390**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.21	*1	19.3	14.8		ug/L		77	36 - 120
2-Methylnaphthalene	<0.21		19.3	14.7		ug/L		76	32 - 124
Acenaphthene	<0.21		19.3	17.6		ug/L		91	47 - 145
Acenaphthylene	<0.21		19.3	17.7		ug/L		92	33 - 145
Anthracene	<0.21		19.3	18.2		ug/L		94	27 - 133
Benzo[a]anthracene	<0.21		19.3	20.3		ug/L		105	33 - 143
Benzo[a]pyrene	<0.21		19.3	20.7		ug/L		107	17 - 163
Benzo[b]fluoranthene	<0.21		19.3	20.7		ug/L		107	24 - 159
Benzo[g,h,i]perylene	<0.21		19.3	20.1		ug/L		104	1 - 219
Benzo[k]fluoranthene	<0.21		19.3	20.0		ug/L		103	11 - 162
Chrysene	<0.21		19.3	20.4		ug/L		105	17 - 168
Dibenz(a,h)anthracene	<0.21		19.3	20.2		ug/L		104	1 - 227
Fluoranthene	<0.21		19.3	19.4		ug/L		100	26 - 137
Fluorene	<0.21		19.3	18.1		ug/L		94	59 - 121
Indeno[1,2,3-cd]pyrene	<0.21		19.3	19.1		ug/L		99	1 - 171
Naphthalene	<0.21		19.3	14.2		ug/L		73	21 - 133
Phenanthrene	<0.21		19.3	18.7		ug/L		96	54 - 120
Pyrene	<0.21	*+ F1	19.3	20.7		ug/L		107	52 - 120

Surrogate	MS %Recovery	MS Qualifier	MS Limits
2,4,6-Tribromophenol (Surr)	73		28 - 127
2-Fluorobiphenyl (Surr)	67		31 - 120
2-Fluorophenol (Surr)	51		17 - 120
Nitrobenzene-d5 (Surr)	57		27 - 120
Phenol-d6 (Surr)	33		10 - 120
p-Terphenyl-d14 (Surr)	79		45 - 120

**Lab Sample ID: 380-169478-A-1-B MSD**  
**Matrix: Water**  
**Analysis Batch: 624441**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 622390**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	<0.21	*1	20.1	20.0		ug/L		99	36 - 120	29	30
2-Methylnaphthalene	<0.21		20.1	19.9		ug/L		99	32 - 124	30	30
Acenaphthene	<0.21		20.1	23.8		ug/L		119	47 - 145	30	48
Acenaphthylene	<0.21		20.1	24.3		ug/L		121	33 - 145	31	74
Anthracene	<0.21		20.1	23.9		ug/L		119	27 - 133	27	66
Benzo[a]anthracene	<0.21		20.1	24.8		ug/L		123	33 - 143	20	53
Benzo[a]pyrene	<0.21		20.1	25.2		ug/L		125	17 - 163	20	72
Benzo[b]fluoranthene	<0.21		20.1	25.1		ug/L		125	24 - 159	19	71
Benzo[g,h,i]perylene	<0.21		20.1	24.7		ug/L		123	1 - 219	21	97
Benzo[k]fluoranthene	<0.21		20.1	24.2		ug/L		121	11 - 162	19	63
Chrysene	<0.21		20.1	24.7		ug/L		123	17 - 168	19	87
Dibenz(a,h)anthracene	<0.21		20.1	24.2		ug/L		120	1 - 227	18	126
Fluoranthene	<0.21		20.1	24.3		ug/L		121	26 - 137	22	66
Fluorene	<0.21		20.1	24.3		ug/L		121	59 - 121	29	38
Indeno[1,2,3-cd]pyrene	<0.21		20.1	23.8		ug/L		119	1 - 171	22	99
Naphthalene	<0.21		20.1	18.9		ug/L		94	21 - 133	28	65

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# QC Sample Results

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

Job ID: 380-169541-1  
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

**Lab Sample ID: 380-169478-A-1-B MSD**

**Client Sample ID: Matrix Spike Duplicate**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 624441**

**Prep Batch: 622390**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenanthrene	<0.21		20.1	24.1		ug/L		120	54 - 120	26	39
Pyrene	<0.21	*+ F1	20.1	25.1	F1	ug/L		125	52 - 120	19	49
<b>MSD MSD</b>											
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>								
2,4,6-Tribromophenol (Surr)	87		28 - 127								
2-Fluorobiphenyl (Surr)	82		31 - 120								
2-Fluorophenol (Surr)	67		17 - 120								
Nitrobenzene-d5 (Surr)	68		27 - 120								
Phenol-d6 (Surr)	42		10 - 120								
p-Terphenyl-d14 (Surr)	85		45 - 120								

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

**Lab Sample ID: MB 570-622036/6**

**Client Sample ID: Method Blank**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 622036**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	<10		10	ug/L			09/07/25 12:09	1
<b>MB MB</b>								
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>		<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>	
4-Bromofluorobenzene (Surr)	67		38 - 134			09/07/25 12:09	1	

**Lab Sample ID: LCS 570-622036/4**

**Client Sample ID: Lab Control Sample**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 622036**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (C4-C13)	400	330		ug/L		82	78 - 120
<b>LCS LCS</b>							
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				
4-Bromofluorobenzene (Surr)	82		38 - 134				

**Lab Sample ID: LCSD 570-622036/5**

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

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 622036**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (C4-C13)	400	330		ug/L		83	78 - 120	0	10
<b>LCSD LCSD</b>									
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>						
4-Bromofluorobenzene (Surr)	90		38 - 134						

# QC Sample Results

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

Job ID: 380-169541-1  
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

**Lab Sample ID: MRL 570-622036/3**  
**Matrix: Water**  
**Analysis Batch: 622036**

**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		72	50 - 150
<b>Surrogate</b>		<b>MRL %Recovery</b>	<b>MRL Qualifier</b>				<b>Limits</b>
4-Bromofluorobenzene (Surr)		72					38 - 134

**Lab Sample ID: 380-169530-C-1 MS**  
**Matrix: Water**  
**Analysis Batch: 622036**

**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	340		ug/L		85	68 - 122
<b>Surrogate</b>		<b>MS %Recovery</b>		<b>MS Qualifier</b>					<b>Limits</b>
4-Bromofluorobenzene (Surr)		87							38 - 134

**Lab Sample ID: 380-169530-C-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 622036**

**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	327		ug/L		82	68 - 122	4	18
<b>Surrogate</b>		<b>MSD %Recovery</b>		<b>MSD Qualifier</b>					<b>Limits</b>		
4-Bromofluorobenzene (Surr)		86							38 - 134		

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

**Lab Sample ID: MB 570-622477/1-A**  
**Matrix: Water**  
**Analysis Batch: 625391**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 622477**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<25		25	ug/L		09/08/25 14:14	09/14/25 15:47	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		09/08/25 14:14	09/14/25 15:47	1
C8-C18	<25		25	ug/L		09/08/25 14:14	09/14/25 15:47	1
<b>Surrogate</b>		<b>MB %Recovery</b>	<b>MB Qualifier</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
n-Octacosane (Surr)		86				09/08/25 14:14	09/14/25 15:47	1

**Lab Sample ID: LCS 570-622477/2-A**  
**Matrix: Water**  
**Analysis Batch: 625391**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 622477**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
C10-C28	1600	1500		ug/L		94	56 - 127

Eurofins Eaton Analytical Pomona



# QC Sample Results

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

Job ID: 380-169541-1  
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

**Lab Sample ID: LCS 570-622477/2-A**  
**Matrix: Water**  
**Analysis Batch: 625391**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 622477**

	LCS %Recovery	LCS Qualifier	Limits
<i>n-Octacosane (Surr)</i>	91		60 - 130

**Lab Sample ID: LCSD 570-622477/3-A**  
**Matrix: Water**  
**Analysis Batch: 625391**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 622477**

		Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Analyte		1600	1600		ug/L		100	56 - 127	6	23
C10-C28										

  

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

**Lab Sample ID: MRL 570-622477/4-A**  
**Matrix: Water**  
**Analysis Batch: 625391**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 622477**

		Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Analyte		0.0200	0.0286		mg/L		143	50 - 150		
C10-C28										

  

	MRL %Recovery	MRL Qualifier	Limits
<i>n-Octacosane (Surr)</i>	87		60 - 130

**Lab Sample ID: 380-169530-B-1-A MS**  
**Matrix: Water**  
**Analysis Batch: 625391**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 622477**

	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Analyte	<26		1650	1460		ug/L		88	70 - 130		
C10-C28											

  

	MS %Recovery	MS Qualifier	Limits
<i>n-Octacosane (Surr)</i>	85		60 - 130

**Lab Sample ID: 380-169530-B-1-B MSD**  
**Matrix: Water**  
**Analysis Batch: 625391**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 622477**

	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Analyte	<26		1670	1540		ug/L		93	70 - 130	6	20
C10-C28											

  

	MSD %Recovery	MSD Qualifier	Limits
<i>n-Octacosane (Surr)</i>	81		60 - 130

# QC Association Summary

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

Job ID: 380-169541-1  
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

## GC/MS Semi VOA

### Prep Batch: 172509

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-169541-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	525.2	
380-169541-3	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Water	525.2	
MB 380-172509/21-A	Method Blank	Total/NA	Water	525.2	
LCS 380-172509/23-A	Lab Control Sample	Total/NA	Water	525.2	
LCSD 380-172509/24-A	Lab Control Sample Dup	Total/NA	Water	525.2	
MRL 380-172509/22-A	Lab Control Sample	Total/NA	Water	525.2	
380-169525-H-1-A MS	Matrix Spike	Total/NA	Water	525.2	
380-169530-H-1-A DU	Duplicate	Total/NA	Water	525.2	

### Analysis Batch: 172575

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-169541-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	525.2	172509
380-169541-3	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Water	525.2	172509
MB 380-172509/21-A	Method Blank	Total/NA	Water	525.2	172509
LCS 380-172509/23-A	Lab Control Sample	Total/NA	Water	525.2	172509
LCSD 380-172509/24-A	Lab Control Sample Dup	Total/NA	Water	525.2	172509
MRL 380-172509/22-A	Lab Control Sample	Total/NA	Water	525.2	172509
380-169525-H-1-A MS	Matrix Spike	Total/NA	Water	525.2	172509
380-169530-H-1-A DU	Duplicate	Total/NA	Water	525.2	172509

### Prep Batch: 622390

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-169541-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	625.1	
380-169541-3	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Water	625.1	
MB 570-622390/1-A	Method Blank	Total/NA	Water	625.1	
LCS 570-622390/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 570-622390/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	
380-169478-A-1-A MS	Matrix Spike	Total/NA	Water	625.1	
380-169478-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	625.1	

### Analysis Batch: 624441

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-622390/1-A	Method Blank	Total/NA	Water	625.1 SIM	622390
LCS 570-622390/2-A	Lab Control Sample	Total/NA	Water	625.1 SIM	622390
LCSD 570-622390/3-A	Lab Control Sample Dup	Total/NA	Water	625.1 SIM	622390
380-169478-A-1-A MS	Matrix Spike	Total/NA	Water	625.1 SIM	622390
380-169478-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	625.1 SIM	622390

### Analysis Batch: 624652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-169541-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	625.1 SIM	622390
380-169541-3	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Water	625.1 SIM	622390

### Analysis Batch: 626824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-169541-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	625.1	622390
380-169541-3	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Water	625.1	622390
MB 570-622390/1-A	Method Blank	Total/NA	Water	625.1	622390

# QC Association Summary

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

Job ID: 380-169541-1  
 SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

## GC VOA

### Analysis Batch: 622036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-169541-3	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Water	8015B GRO LL	
380-169541-4	TB: AIEA GULCH WELLS PUMP 2 (331-202-TPC	Total/NA	Water	8015B GRO LL	
MB 570-622036/6	Method Blank	Total/NA	Water	8015B GRO LL	
LCS 570-622036/4	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-622036/5	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	
MRL 570-622036/3	Lab Control Sample	Total/NA	Water	8015B GRO LL	
380-169530-C-1 MS	Matrix Spike	Total/NA	Water	8015B GRO LL	
380-169530-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8015B GRO LL	

## GC Semi VOA

### Prep Batch: 622477

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-169541-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	3510C	
380-169541-3	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Water	3510C	
MB 570-622477/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-622477/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-622477/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-622477/4-A	Lab Control Sample	Total/NA	Water	3510C	
380-169530-B-1-A MS	Matrix Spike	Total/NA	Water	3510C	
380-169530-B-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

### Analysis Batch: 625391

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-169541-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	8015B	622477
380-169541-3	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Water	8015B	622477
MB 570-622477/1-A	Method Blank	Total/NA	Water	8015B	622477
LCS 570-622477/2-A	Lab Control Sample	Total/NA	Water	8015B	622477
LCSD 570-622477/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	622477
MRL 570-622477/4-A	Lab Control Sample	Total/NA	Water	8015B	622477
380-169530-B-1-A MS	Matrix Spike	Total/NA	Water	8015B	622477
380-169530-B-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	8015B	622477

# Lab Chronicle

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

Job ID: 380-169541-1  
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

**Lab Sample ID: 380-169541-1**

**Date Collected: 09/02/25 11:10**

**Matrix: Drinking Water**

**Date Received: 09/04/25 09:56**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			172509	OTM3	EA POM	09/05/25 06:34
Total/NA	Analysis	525.2		1	172575	Q8LA	EA POM	09/05/25 15:28
Total/NA	Prep	625.1			622390	S4EA	EET CAL 4	09/08/25 12:54
Total/NA	Analysis	625.1		1	626824	PQS1	EET CAL 4	09/17/25 15:50
Total/NA	Prep	625.1			622390	S4EA	EET CAL 4	09/08/25 12:54
Total/NA	Analysis	625.1 SIM		1	624652	ULLI	EET CAL 4	09/12/25 19:59
Total/NA	Prep	3510C			622477	TVD6	EET CAL 4	09/08/25 14:16
Total/NA	Analysis	8015B		1	625391	H6FE	EET CAL 4	09/14/25 21:09

**Client Sample ID: AIEA GULCH WELLS PUMP 2  
(331-202-TP072)**

**Lab Sample ID: 380-169541-3**

**Date Collected: 09/02/25 11:29**

**Matrix: Water**

**Date Received: 09/04/25 09:56**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			172509	OTM3	EA POM	09/05/25 06:34
Total/NA	Analysis	525.2		1	172575	Q8LA	EA POM	09/05/25 15:48
Total/NA	Prep	625.1			622390	S4EA	EET CAL 4	09/08/25 12:54
Total/NA	Analysis	625.1		1	626824	PQS1	EET CAL 4	09/17/25 16:15
Total/NA	Prep	625.1			622390	S4EA	EET CAL 4	09/08/25 12:54
Total/NA	Analysis	625.1 SIM		1	624652	ULLI	EET CAL 4	09/12/25 20:21
Total/NA	Analysis	8015B GRO LL		1	622036	W4LC	EET CAL 4	09/07/25 17:25
Total/NA	Prep	3510C			622477	TVD6	EET CAL 4	09/08/25 14:16
Total/NA	Analysis	8015B		1	625391	H6FE	EET CAL 4	09/14/25 21:30

**Client Sample ID: TB: AIEA GULCH WELLS PUMP 2  
(331-202-TP072)**

**Lab Sample ID: 380-169541-4**

**Date Collected: 09/02/25 11:29**

**Matrix: Water**

**Date Received: 09/04/25 09:56**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	622036	W4LC	EET CAL 4	09/07/25 21:34

**Laboratory References:**

EA POM = Eurofins Eaton Analytical 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: 380-169541-1  
 SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

## Laboratory: Eurofins Eaton Analytical Pomona

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

Authority	Program	Identification Number	Expiration Date
Hawaii	State	CA00006	01-31-26

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
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

# Accreditation/Certification Summary

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

Job ID: 380-169541-1  
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

## Laboratory: Eurofins Eaton Analytical Pomona (Continued)

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

Authority	Program	Identification Number	Expiration Date
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	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	11-16-25
California	Los Angeles County Sanitation Districts	9257304	07-31-26
California	SCAQMD LAP	17LA0919	11-30-25
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	10-11-25

# Method Summary

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

Job ID: 380-169541-1  
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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 Eaton Analytical 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: 380-169541-1  
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	PWSID Number
380-169541-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Drinking Water	09/02/25 11:10	09/04/25 09:56	HI0000331
380-169541-3	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Water	09/02/25 11:29	09/04/25 09:56	HI0000331
380-169541-4	TB: AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Water	09/02/25 11:29	09/04/25 09:56	

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# Chain of Custody Record

<b>Client Information</b>		Lab PM: Lopez, Maria		Carrier Tracking No(s)		COC No: 380-28005-2757 1					
Client Contact: Mr Kirk Iwamoto		E-Mail: Maria.Lopez@et.eurofins.com		State of Origin:		Page: Page 1 of 1					
Company: City & County of Honolulu		PWSID:		Job #:		Other:					
Address: 630 South Beretania Street Chemistry Lab		Due Date Requested:		Analysis Requested		Preservation Codes:					
City: Honolulu		TAT Requested (days):		533 - All Analytes		R - NaThioSO4					
State: HI, 96843		Compliance Project: Δ Yes Δ No		537 1_DW_PREC - 537 1 Full List		RA - NaThioHCl					
Phone: 808-748-5840 (Tel)		PO #: C20525101 exp 05312023		535 2_PREC - (MOD) 525plus Plus TICs		Q - NaZSO3					
Email: kiwamoto@hbws.org		WO #:		8015B_DRO_LL_CS - HNL Ranges C10-C24/C24-C36/C36-C18		QA - NaZSO3/HCl					
Project Name: RED-HILL/HBWS Sites Event Desc: RUSH Weekly Red Hill		Project #: 38001111		8015B_GRO_LL (MOD) GRO		Y - Trizma					
Site: Hawaii		SSOW#:		805 1_925 1_91M		I - NH4 Acetate					
<b>Sample Identification</b>		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=Water, S=Soil, O=Organic, A=Air)		Special Instructions/Note:	
Aiea Gulch Wells Pump 1		2-Sep-2025		1110		G		Water		Total Number of Containers	
Aiea Gulch Wells Pump 1 (Matrix Spike)								Water			
Aiea Gulch Wells Pump 1 (Matrix Spike Duplicate)								Water			
TB: Aiea Gulch Wells Pump 1								Water			
Aiea Gulch Wells Pump 2								Water			
Aiea Gulch Wells Pump 2 (Matrix Spike)								Water			
Aiea Gulch Wells Pump 2 (Matrix Spike Duplicate)								Water			
TB: Aiea Gulch Wells Pump 2								Water			
<b>Possible Hazard Identification</b>		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Archive For		Months		380-169541 COC			
<input type="checkbox"/> Non-Hazard		<input type="checkbox"/> Flammable		<input type="checkbox"/> Skin Irritant		<input type="checkbox"/> Radiological		<input type="checkbox"/> Return To Client		<input type="checkbox"/> Disposal By Lab	
Deliverable Requested I, II, III, IV, Other (specify)		Empty Kit Relinquished by		Date: 03 SEPT 2025		Date: 1400		Company: HBWS		Method of Shipment: 840 824257725812590	
Relinquished by		Date/Time: 03 SEPT 2025		Date/Time: 1400		Date/Time: 2-1		Company: HBWS		Date/Time: 9/17/25	
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.		Date/Time: 03 SEPT 2025		Date/Time: 1400		Company: HBWS		Date/Time: 9/17/25	
Cooler Temperature(s) °C and Other Remarks: 600/4.4 = 9.8		Date/Time: 03 SEPT 2025		Date/Time: 1400		Date/Time: 2-1		Company: HBWS		Date/Time: 9/17/25	













## Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-169541-1

SDG Number: Weekly: Aiea Gulch Wells Pump 1/Pump 2

**Login Number: 169541**

**List Number: 1**

**Creator: Segura, Ryan**

**List Source: Eurofins Eaton Analytical 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	
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: 380-169541-1  
SDG Number: Weekly: Aiea Gulch Wells Pump 1/Pump 2

**Login Number: 169541**

**List Number: 2**

**Creator: Khana, Piyush**

**List Source: Eurofins Calscience**

**List Creation: 09/05/25 12:35 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.	N/A	
Sample custody seals, if present, are intact.	N/A	
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	1.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

