

1
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

Generated 12/16/2025 11:38:56 AM

## JOB DESCRIPTION

RED-HILL  
Weekly: Aiea Gulch Wells Pump 1/Pump 2

## JOB NUMBER

380-185639-1

# 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



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

Generated  
12/16/2025 11:38:56 AM



# 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 . . . . .	14
Surrogate Summary . . . . .	15
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 . . . . .	43

# Definitions/Glossary

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

Job ID: 380-185639-1  
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

## Qualifiers

### GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.

### GC/MS Semi VOA TICs

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

## 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: 380-185639-1

**Job ID: 380-185639-1**

**Eurofins Eaton Analytical Pomona**

## Job Narrative 380-185639-1

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 12/3/2025 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.6°C.

### Receipt Exceptions

On COC for Pump 1 shows 3 vial samples for 8015B\_GRO\_LL, but only received 2 of 3 vial samples for 8015B\_GRO\_LL.

AIEA GULCH WELLS PUMP 1 (380-185639-1)

### GC/MS Semi VOA

Method 625.1\_SIM: The 2,4,6-Tribromophenol (Surr), 2-Fluorophenol (Surr) and Phenol-d6 (Surr) was outside of control limits in the following sample: AIEA GULCH WELLS PUMP 1 (380-185639-1). 2,4,6-Tribromophenol (Surr), 2-Fluorophenol (Surr) and Phenol-d6 (Surr) is not chemically associated with the target analyte(s), therefore, results are reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

### Gasoline Range Organics

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

### Diesel Range Organics

Method 8015B\_DRO\_LL\_CS: Method 8015B\_DRO results for AIEA GULCH WELLS PUMP 1 (380-185639-1) and AIEA GULCH WELLS PUMP 2 (380-185639-3) collected on 12/1/25 are a resample for AIEA GULCH WELLS PUMP 1 (331-201-TP071) (380-183483-1) and AIEA GULCH WELLS PUMP 2 (331-202-TP072) (380-183483-2) collected on 11/17/25. (XWB4)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Eaton Analytical Pomona

# Detection Summary

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

Job ID: 380-185639-1  
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

**Lab Sample ID: 380-185639-1**

No Detections.

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

**Lab Sample ID: 380-185639-2**

No Detections.

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

**Lab Sample ID: 380-185639-3**

No Detections.

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

**Lab Sample ID: 380-185639-4**

No Detections.

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

This Detection Summary does not include radiochemical test results.

Eurofins Eaton Analytical Pomona

# Client Sample Results

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

Job ID: 380-185639-1  
 SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

**Lab Sample ID: 380-185639-1**

Date Collected: 12/01/25 11:27

Matrix: Water

Date Received: 12/03/25 10:30

**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		12/04/25 09:08	12/05/25 11:04	1
2,4'-DDD	<0.098		0.098	ug/L		12/04/25 09:08	12/05/25 11:04	1
2,4'-DDE	<0.098		0.098	ug/L		12/04/25 09:08	12/05/25 11:04	1
2,4'-DDT	<0.098		0.098	ug/L		12/04/25 09:08	12/05/25 11:04	1
2,4-Dinitrotoluene	<0.098		0.098	ug/L		12/04/25 09:08	12/05/25 11:04	1
2,6-Dinitrotoluene	<0.098		0.098	ug/L		12/04/25 09:08	12/05/25 11:04	1
2-Methylnaphthalene	<0.098		0.098	ug/L		12/04/25 09:08	12/05/25 11:04	1
4,4'-DDD	<0.098		0.098	ug/L		12/04/25 09:08	12/05/25 11:04	1
4,4'-DDE	<0.098		0.098	ug/L		12/04/25 09:08	12/05/25 11:04	1
4,4'-DDT	<0.098		0.098	ug/L		12/04/25 09:08	12/05/25 11:04	1
Acenaphthene	<0.098		0.098	ug/L		12/04/25 09:08	12/05/25 11:04	1
Acenaphthylene	<0.098		0.098	ug/L		12/04/25 09:08	12/05/25 11:04	1
Acetochlor	<0.098		0.098	ug/L		12/04/25 09:08	12/05/25 11:04	1
Alachlor	<0.049		0.049	ug/L		12/04/25 09:08	12/05/25 11:04	1
alpha-BHC	<0.098		0.098	ug/L		12/04/25 09:08	12/05/25 11:04	1
alpha-Chlordane	<0.049		0.049	ug/L		12/04/25 09:08	12/05/25 11:04	1
Anthracene	<0.020		0.020	ug/L		12/04/25 09:08	12/05/25 11:04	1
Atrazine	<0.049		0.049	ug/L		12/04/25 09:08	12/05/25 11:04	1
Benz(a)anthracene	<0.049		0.049	ug/L		12/04/25 09:08	12/05/25 11:04	1
Benzo[a]pyrene	<0.020		0.020	ug/L		12/04/25 09:08	12/05/25 11:04	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		12/04/25 09:08	12/05/25 11:04	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		12/04/25 09:08	12/05/25 11:04	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		12/04/25 09:08	12/05/25 11:04	1
beta-BHC	<0.098		0.098	ug/L		12/04/25 09:08	12/05/25 11:04	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		12/04/25 09:08	12/05/25 11:04	1
Bromacil	<0.098		0.098	ug/L		12/04/25 09:08	12/05/25 11:04	1
Butachlor	<0.049		0.049	ug/L		12/04/25 09:08	12/05/25 11:04	1
Butylbenzylphthalate	<0.49		0.49	ug/L		12/04/25 09:08	12/05/25 11:04	1
Chlorobenzilate	<0.098		0.098	ug/L		12/04/25 09:08	12/05/25 11:04	1
Chloroneb	<0.098		0.098	ug/L		12/04/25 09:08	12/05/25 11:04	1
Chlorothalonil (Draconil, Bravo)	<0.098		0.098	ug/L		12/04/25 09:08	12/05/25 11:04	1
Chlorpyrifos	<0.049		0.049	ug/L		12/04/25 09:08	12/05/25 11:04	1
Chrysene	<0.020		0.020	ug/L		12/04/25 09:08	12/05/25 11:04	1
delta-BHC	<0.098		0.098	ug/L		12/04/25 09:08	12/05/25 11:04	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		12/04/25 09:08	12/05/25 11:04	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		12/04/25 09:08	12/05/25 11:04	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		12/04/25 09:08	12/05/25 11:04	1
Dieldrin	<0.0098		0.0098	ug/L		12/04/25 09:08	12/05/25 11:04	1
Diethylphthalate	<0.49		0.49	ug/L		12/04/25 09:08	12/05/25 11:04	1
Dimethylphthalate	<0.49		0.49	ug/L		12/04/25 09:08	12/05/25 11:04	1
Di-n-butyl phthalate	<0.98		0.98	ug/L		12/04/25 09:08	12/05/25 11:04	1
Di-n-octyl phthalate	<0.098		0.098	ug/L		12/04/25 09:08	12/05/25 11:04	1
Endosulfan I (Alpha)	<0.098		0.098	ug/L		12/04/25 09:08	12/05/25 11:04	1
Endosulfan II (Beta)	<0.098		0.098	ug/L		12/04/25 09:08	12/05/25 11:04	1
Endosulfan sulfate	<0.098		0.098	ug/L		12/04/25 09:08	12/05/25 11:04	1
Endrin	<0.0098		0.0098	ug/L		12/04/25 09:08	12/05/25 11:04	1
Endrin aldehyde	<0.098		0.098	ug/L		12/04/25 09:08	12/05/25 11:04	1
EPTC	<0.098		0.098	ug/L		12/04/25 09:08	12/05/25 11:04	1
Fluoranthene	<0.098		0.098	ug/L		12/04/25 09:08	12/05/25 11:04	1

Eurofins Eaton Analytical Pomona

# Client Sample Results

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

Job ID: 380-185639-1  
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

**Lab Sample ID: 380-185639-1**

Date Collected: 12/01/25 11:27

Matrix: Water

Date Received: 12/03/25 10:30

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	<0.049		0.049	ug/L		12/04/25 09:08	12/05/25 11:04	1
gamma-Chlordane	<0.049		0.049	ug/L		12/04/25 09:08	12/05/25 11:04	1
Heptachlor	<0.0098		0.0098	ug/L		12/04/25 09:08	12/05/25 11:04	1
Heptachlor epoxide (isomer B)	<0.0098		0.0098	ug/L		12/04/25 09:08	12/05/25 11:04	1
Hexachlorobenzene	<0.049		0.049	ug/L		12/04/25 09:08	12/05/25 11:04	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		12/04/25 09:08	12/05/25 11:04	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		12/04/25 09:08	12/05/25 11:04	1
Isophorone	<0.098		0.098	ug/L		12/04/25 09:08	12/05/25 11:04	1
Lindane	<0.0098		0.0098	ug/L		12/04/25 09:08	12/05/25 11:04	1
Malathion	<0.098		0.098	ug/L		12/04/25 09:08	12/05/25 11:04	1
Methoxychlor	<0.049		0.049	ug/L		12/04/25 09:08	12/05/25 11:04	1
Metolachlor	<0.049		0.049	ug/L		12/04/25 09:08	12/05/25 11:04	1
Molinate	<0.098		0.098	ug/L		12/04/25 09:08	12/05/25 11:04	1
Naphthalene	<0.098		0.098	ug/L		12/04/25 09:08	12/05/25 11:04	1
Parathion	<0.098		0.098	ug/L		12/04/25 09:08	12/05/25 11:04	1
Pendimethalin (Penoxaline)	<0.098		0.098	ug/L		12/04/25 09:08	12/05/25 11:04	1
Phenanthrene	<0.039		0.039	ug/L		12/04/25 09:08	12/05/25 11:04	1
Propachlor	<0.049		0.049	ug/L		12/04/25 09:08	12/05/25 11:04	1
Pyrene	<0.049		0.049	ug/L		12/04/25 09:08	12/05/25 11:04	1
Simazine	<0.049		0.049	ug/L		12/04/25 09:08	12/05/25 11:04	1
Terbacil	<0.098		0.098	ug/L		12/04/25 09:08	12/05/25 11:04	1
Terbutylazine	<0.098		0.098	ug/L		12/04/25 09:08	12/05/25 11:04	1
Thiobencarb	<0.098		0.098	ug/L		12/04/25 09:08	12/05/25 11:04	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		12/04/25 09:08	12/05/25 11:04	1
trans-Nonachlor	<0.049		0.049	ug/L		12/04/25 09:08	12/05/25 11:04	1
Trifluralin	<0.098		0.098	ug/L		12/04/25 09:08	12/05/25 11:04	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	12/04/25 09:08	12/05/25 11:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	99		70 - 130	12/04/25 09:08	12/05/25 11:04	1
Perylene-d12	91		70 - 130	12/04/25 09:08	12/05/25 11:04	1
Triphenylphosphate	107		70 - 130	12/04/25 09:08	12/05/25 11:04	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.19		0.19	ug/L		12/04/25 13:53	12/11/25 02:15	1
2-Methylnaphthalene	<0.19		0.19	ug/L		12/04/25 13:53	12/11/25 02:15	1
Acenaphthene	<0.19		0.19	ug/L		12/04/25 13:53	12/11/25 02:15	1
Acenaphthylene	<0.19		0.19	ug/L		12/04/25 13:53	12/11/25 02:15	1
Anthracene	<0.19		0.19	ug/L		12/04/25 13:53	12/11/25 02:15	1
Benzo[a]anthracene	<0.19		0.19	ug/L		12/04/25 13:53	12/11/25 02:15	1
Benzo[a]pyrene	<0.19		0.19	ug/L		12/04/25 13:53	12/11/25 02:15	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		12/04/25 13:53	12/11/25 02:15	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		12/04/25 13:53	12/11/25 02:15	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		12/04/25 13:53	12/11/25 02:15	1
Chrysene	<0.19		0.19	ug/L		12/04/25 13:53	12/11/25 02:15	1
Dibenz(a,h)anthracene	<0.19		0.19	ug/L		12/04/25 13:53	12/11/25 02:15	1
Fluoranthene	<0.19		0.19	ug/L		12/04/25 13:53	12/11/25 02:15	1

Eurofins Eaton Analytical Pomona

# Client Sample Results

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

Job ID: 380-185639-1  
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

**Lab Sample ID: 380-185639-1**

Date Collected: 12/01/25 11:27

Matrix: Water

Date Received: 12/03/25 10:30

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	<0.19		0.19	ug/L		12/04/25 13:53	12/11/25 02:15	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		12/04/25 13:53	12/11/25 02:15	1
Naphthalene	<0.19		0.19	ug/L		12/04/25 13:53	12/11/25 02:15	1
Phenanthrene	<0.19		0.19	ug/L		12/04/25 13:53	12/11/25 02:15	1
Pyrene	<0.19		0.19	ug/L		12/04/25 13:53	12/11/25 02:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	8	S1-	28 - 127	12/04/25 13:53	12/11/25 02:15	1
2-Fluorobiphenyl (Surr)	90		31 - 120	12/04/25 13:53	12/11/25 02:15	1
2-Fluorophenol (Surr)	3	S1-	17 - 120	12/04/25 13:53	12/11/25 02:15	1
Nitrobenzene-d5 (Surr)	92		27 - 120	12/04/25 13:53	12/11/25 02:15	1
Phenol-d6 (Surr)	9	S1-	10 - 120	12/04/25 13:53	12/11/25 02:15	1
p-Terphenyl-d14 (Surr)	82		45 - 120	12/04/25 13:53	12/11/25 02:15	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
Cyclopentasiloxane, decamethyl-	1.6	T J N	ug/L		4.19	541-02-6	12/04/25 13:53	12/11/25 09:21	1
Cyclic octaatomic sulfur	5.0	T J N	ug/L		9.93	10544-50-0	12/04/25 13:53	12/11/25 09:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	7	S1-	33 - 139	12/04/25 13:53	12/11/25 09:21	1
2-Fluorobiphenyl (Surr)	94		33 - 126	12/04/25 13:53	12/11/25 09:21	1
2-Fluorophenol (Surr)	0	S1-	12 - 120	12/04/25 13:53	12/11/25 09:21	1
Nitrobenzene-d5 (Surr)	103		36 - 120	12/04/25 13:53	12/11/25 09:21	1
Phenol-d6 (Surr)	9	S1-	10 - 120	12/04/25 13:53	12/11/25 09:21	1
p-Terphenyl-d14 (Surr)	91		47 - 131	12/04/25 13:53	12/11/25 09:21	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			12/14/25 14:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		38 - 134		12/14/25 14:40	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		12/04/25 12:51	12/11/25 05:48	1
Motor Oil Range Organics [C24-C36]	<26		26	ug/L		12/04/25 12:51	12/11/25 05:48	1
C8-C18	<26		26	ug/L		12/04/25 12:51	12/11/25 05:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	98		60 - 130	12/04/25 12:51	12/11/25 05:48	1

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

**Lab Sample ID: 380-185639-2**

Date Collected: 12/01/25 11:27

Matrix: Water

Date Received: 12/03/25 10:30

**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			12/14/25 18:57	1

# Client Sample Results

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

Job ID: 380-185639-1  
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

## Client Sample ID: TB: AIEA GULCH WELLS PUMP 1

Lab Sample ID: 380-185639-2

Date Collected: 12/01/25 11:27

Matrix: Water

Date Received: 12/03/25 10:30

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		38 - 134		12/14/25 18:57	1

## Client Sample ID: AIEA GULCH WELLS PUMP 2

Lab Sample ID: 380-185639-3

Date Collected: 12/01/25 11:53

Matrix: Water

Date Received: 12/03/25 10:30

### 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		12/04/25 09:08	12/05/25 13:45	1
2,4'-DDD	<0.099		0.099	ug/L		12/04/25 09:08	12/05/25 13:45	1
2,4'-DDE	<0.099		0.099	ug/L		12/04/25 09:08	12/05/25 13:45	1
2,4'-DDT	<0.099		0.099	ug/L		12/04/25 09:08	12/05/25 13:45	1
2,4-Dinitrotoluene	<0.099		0.099	ug/L		12/04/25 09:08	12/05/25 13:45	1
2,6-Dinitrotoluene	<0.099		0.099	ug/L		12/04/25 09:08	12/05/25 13:45	1
2-Methylnaphthalene	<0.099		0.099	ug/L		12/04/25 09:08	12/05/25 13:45	1
4,4'-DDD	<0.099		0.099	ug/L		12/04/25 09:08	12/05/25 13:45	1
4,4'-DDE	<0.099		0.099	ug/L		12/04/25 09:08	12/05/25 13:45	1
4,4'-DDT	<0.099		0.099	ug/L		12/04/25 09:08	12/05/25 13:45	1
Acenaphthene	<0.099		0.099	ug/L		12/04/25 09:08	12/05/25 13:45	1
Acenaphthylene	<0.099		0.099	ug/L		12/04/25 09:08	12/05/25 13:45	1
Acetochlor	<0.099		0.099	ug/L		12/04/25 09:08	12/05/25 13:45	1
Alachlor	<0.050		0.050	ug/L		12/04/25 09:08	12/05/25 13:45	1
alpha-BHC	<0.099		0.099	ug/L		12/04/25 09:08	12/05/25 13:45	1
alpha-Chlordane	<0.050		0.050	ug/L		12/04/25 09:08	12/05/25 13:45	1
Anthracene	<0.020		0.020	ug/L		12/04/25 09:08	12/05/25 13:45	1
Atrazine	<0.050		0.050	ug/L		12/04/25 09:08	12/05/25 13:45	1
Benz(a)anthracene	<0.050		0.050	ug/L		12/04/25 09:08	12/05/25 13:45	1
Benzo[a]pyrene	<0.020		0.020	ug/L		12/04/25 09:08	12/05/25 13:45	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		12/04/25 09:08	12/05/25 13:45	1
Benzo[g,h,i]perylene	<0.050		0.050	ug/L		12/04/25 09:08	12/05/25 13:45	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		12/04/25 09:08	12/05/25 13:45	1
beta-BHC	<0.099		0.099	ug/L		12/04/25 09:08	12/05/25 13:45	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		12/04/25 09:08	12/05/25 13:45	1
Bromacil	<0.099		0.099	ug/L		12/04/25 09:08	12/05/25 13:45	1
Butachlor	<0.050		0.050	ug/L		12/04/25 09:08	12/05/25 13:45	1
Butylbenzylphthalate	<0.50		0.50	ug/L		12/04/25 09:08	12/05/25 13:45	1
Chlorobenzilate	<0.099		0.099	ug/L		12/04/25 09:08	12/05/25 13:45	1
Chloroneb	<0.099		0.099	ug/L		12/04/25 09:08	12/05/25 13:45	1
Chlorothalonil (Draconil, Bravo)	<0.099		0.099	ug/L		12/04/25 09:08	12/05/25 13:45	1
Chlorpyrifos	<0.050		0.050	ug/L		12/04/25 09:08	12/05/25 13:45	1
Chrysene	<0.020		0.020	ug/L		12/04/25 09:08	12/05/25 13:45	1
delta-BHC	<0.099		0.099	ug/L		12/04/25 09:08	12/05/25 13:45	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		12/04/25 09:08	12/05/25 13:45	1
Dibenz(a,h)anthracene	<0.050		0.050	ug/L		12/04/25 09:08	12/05/25 13:45	1
Diclorvos (DDVP)	<0.050		0.050	ug/L		12/04/25 09:08	12/05/25 13:45	1
Dieldrin	<0.0099		0.0099	ug/L		12/04/25 09:08	12/05/25 13:45	1
Diethylphthalate	<0.50		0.50	ug/L		12/04/25 09:08	12/05/25 13:45	1
Dimethylphthalate	<0.50		0.50	ug/L		12/04/25 09:08	12/05/25 13:45	1
Di-n-butyl phthalate	<0.99		0.99	ug/L		12/04/25 09:08	12/05/25 13:45	1
Di-n-octyl phthalate	<0.099		0.099	ug/L		12/04/25 09:08	12/05/25 13:45	1

Eurofins Eaton Analytical Pomona

# Client Sample Results

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

Job ID: 380-185639-1  
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

**Lab Sample ID: 380-185639-3**

Date Collected: 12/01/25 11:53

Matrix: Water

Date Received: 12/03/25 10:30

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan I (Alpha)	<0.099		0.099	ug/L		12/04/25 09:08	12/05/25 13:45	1
Endosulfan II (Beta)	<0.099		0.099	ug/L		12/04/25 09:08	12/05/25 13:45	1
Endosulfan sulfate	<0.099		0.099	ug/L		12/04/25 09:08	12/05/25 13:45	1
Endrin	<0.0099		0.0099	ug/L		12/04/25 09:08	12/05/25 13:45	1
Endrin aldehyde	<0.099		0.099	ug/L		12/04/25 09:08	12/05/25 13:45	1
EPTC	<0.099		0.099	ug/L		12/04/25 09:08	12/05/25 13:45	1
Fluoranthene	<0.099		0.099	ug/L		12/04/25 09:08	12/05/25 13:45	1
Fluorene	<0.050		0.050	ug/L		12/04/25 09:08	12/05/25 13:45	1
gamma-Chlordane	<0.050		0.050	ug/L		12/04/25 09:08	12/05/25 13:45	1
Heptachlor	<0.0099		0.0099	ug/L		12/04/25 09:08	12/05/25 13:45	1
Heptachlor epoxide (isomer B)	<0.0099		0.0099	ug/L		12/04/25 09:08	12/05/25 13:45	1
Hexachlorobenzene	<0.050		0.050	ug/L		12/04/25 09:08	12/05/25 13:45	1
Hexachlorocyclopentadiene	<0.050		0.050	ug/L		12/04/25 09:08	12/05/25 13:45	1
Indeno[1,2,3-cd]pyrene	<0.050		0.050	ug/L		12/04/25 09:08	12/05/25 13:45	1
Isophorone	<0.099		0.099	ug/L		12/04/25 09:08	12/05/25 13:45	1
Lindane	<0.0099		0.0099	ug/L		12/04/25 09:08	12/05/25 13:45	1
Malathion	<0.099		0.099	ug/L		12/04/25 09:08	12/05/25 13:45	1
Methoxychlor	<0.050		0.050	ug/L		12/04/25 09:08	12/05/25 13:45	1
Metolachlor	<0.050		0.050	ug/L		12/04/25 09:08	12/05/25 13:45	1
Molinate	<0.099		0.099	ug/L		12/04/25 09:08	12/05/25 13:45	1
Naphthalene	<0.099		0.099	ug/L		12/04/25 09:08	12/05/25 13:45	1
Parathion	<0.099		0.099	ug/L		12/04/25 09:08	12/05/25 13:45	1
Pendimethalin (Penoxaline)	<0.099		0.099	ug/L		12/04/25 09:08	12/05/25 13:45	1
Phenanthrene	<0.040		0.040	ug/L		12/04/25 09:08	12/05/25 13:45	1
Propachlor	<0.050		0.050	ug/L		12/04/25 09:08	12/05/25 13:45	1
Pyrene	<0.050		0.050	ug/L		12/04/25 09:08	12/05/25 13:45	1
Simazine	<0.050		0.050	ug/L		12/04/25 09:08	12/05/25 13:45	1
Terbacil	<0.099		0.099	ug/L		12/04/25 09:08	12/05/25 13:45	1
Terbutylazine	<0.099		0.099	ug/L		12/04/25 09:08	12/05/25 13:45	1
Thiobencarb	<0.099		0.099	ug/L		12/04/25 09:08	12/05/25 13:45	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		12/04/25 09:08	12/05/25 13:45	1
trans-Nonachlor	<0.050		0.050	ug/L		12/04/25 09:08	12/05/25 13:45	1
Trifluralin	<0.099		0.099	ug/L		12/04/25 09:08	12/05/25 13:45	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	12/04/25 09:08	12/05/25 13:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	97		70 - 130	12/04/25 09:08	12/05/25 13:45	1
Perylene-d12	91		70 - 130	12/04/25 09:08	12/05/25 13:45	1
Triphenylphosphate	108		70 - 130	12/04/25 09:08	12/05/25 13:45	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.19		0.19	ug/L		12/04/25 13:53	12/11/25 02:59	1
2-Methylnaphthalene	<0.19		0.19	ug/L		12/04/25 13:53	12/11/25 02:59	1
Acenaphthene	<0.19		0.19	ug/L		12/04/25 13:53	12/11/25 02:59	1
Acenaphthylene	<0.19		0.19	ug/L		12/04/25 13:53	12/11/25 02:59	1
Anthracene	<0.19		0.19	ug/L		12/04/25 13:53	12/11/25 02:59	1
Benzo[a]anthracene	<0.19		0.19	ug/L		12/04/25 13:53	12/11/25 02:59	1

Eurofins Eaton Analytical Pomona

# Client Sample Results

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

Job ID: 380-185639-1  
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

**Lab Sample ID: 380-185639-3**

Date Collected: 12/01/25 11:53

Matrix: Water

Date Received: 12/03/25 10:30

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.19		0.19	ug/L		12/04/25 13:53	12/11/25 02:59	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		12/04/25 13:53	12/11/25 02:59	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		12/04/25 13:53	12/11/25 02:59	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		12/04/25 13:53	12/11/25 02:59	1
Chrysene	<0.19		0.19	ug/L		12/04/25 13:53	12/11/25 02:59	1
Dibenz[a,h]anthracene	<0.19		0.19	ug/L		12/04/25 13:53	12/11/25 02:59	1
Fluoranthene	<0.19		0.19	ug/L		12/04/25 13:53	12/11/25 02:59	1
Fluorene	<0.19		0.19	ug/L		12/04/25 13:53	12/11/25 02:59	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		12/04/25 13:53	12/11/25 02:59	1
Naphthalene	<0.19		0.19	ug/L		12/04/25 13:53	12/11/25 02:59	1
Phenanthrene	<0.19		0.19	ug/L		12/04/25 13:53	12/11/25 02:59	1
Pyrene	<0.19		0.19	ug/L		12/04/25 13:53	12/11/25 02:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	97		28 - 127	12/04/25 13:53	12/11/25 02:59	1
2-Fluorobiphenyl (Surr)	87		31 - 120	12/04/25 13:53	12/11/25 02:59	1
2-Fluorophenol (Surr)	57		17 - 120	12/04/25 13:53	12/11/25 02:59	1
Nitrobenzene-d5 (Surr)	85		27 - 120	12/04/25 13:53	12/11/25 02:59	1
Phenol-d6 (Surr)	38		10 - 120	12/04/25 13:53	12/11/25 02:59	1
p-Terphenyl-d14 (Surr)	80		45 - 120	12/04/25 13:53	12/11/25 02:59	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
Cyclic octaatomic sulfur	3.7	T J N	ug/L		9.93	10544-50-0	12/04/25 13:53	12/11/25 09:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	85		33 - 139	12/04/25 13:53	12/11/25 09:45	1
2-Fluorobiphenyl (Surr)	95		33 - 126	12/04/25 13:53	12/11/25 09:45	1
2-Fluorophenol (Surr)	61		12 - 120	12/04/25 13:53	12/11/25 09:45	1
Nitrobenzene-d5 (Surr)	102		36 - 120	12/04/25 13:53	12/11/25 09:45	1
Phenol-d6 (Surr)	37		10 - 120	12/04/25 13:53	12/11/25 09:45	1
p-Terphenyl-d14 (Surr)	90		47 - 131	12/04/25 13:53	12/11/25 09:45	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			12/14/25 15:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		38 - 134		12/14/25 15:02	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		12/04/25 12:51	12/11/25 06:09	1
Motor Oil Range Organics [C24-C36]	<26		26	ug/L		12/04/25 12:51	12/11/25 06:09	1
C8-C18	<26		26	ug/L		12/04/25 12:51	12/11/25 06:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	85		60 - 130	12/04/25 12:51	12/11/25 06:09	1

# Client Sample Results

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

Job ID: 380-185639-1  
 SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

**Lab Sample ID: 380-185639-4**

Date Collected: 12/01/25 11:53

Matrix: Water

Date Received: 12/03/25 10:30

**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			12/14/25 19:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		38 - 134				12/14/25 19:19	1

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

# Action Limit Summary

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

Job ID: 380-185639-1  
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

**Lab Sample ID: 380-185639-1**

## Compliance Check

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

Analyte	Result	Qualifier	Unit	EPAMCL		RL	Method	Prep Type
				Limit				
Alachlor	<0.049		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

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

**Lab Sample ID: 380-185639-3**

## 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

# Surrogate Summary

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

Job ID: 380-185639-1  
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

Matrix: Water

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		2NMX (70-130)	PRY (70-130)	TPP (70-130)
380-185621-H-1-A MS	Matrix Spike	97	99	108
380-185639-1	AIEA GULCH WELLS PUMP 1	99	91	107
380-185639-1 DU	AIEA GULCH WELLS PUMP 1	98	86	108
380-185639-3	AIEA GULCH WELLS PUMP 2	97	91	108
LCS 380-190100/23-A	Lab Control Sample	96	95	105
LCSD 380-190100/24-A	Lab Control Sample Dup	98	99	105
MB 380-190100/21-A	Method Blank	98	90	105
MRL 380-190100/22-A	Lab Control Sample	97	89	106

#### Surrogate Legend

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

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

Matrix: Water

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

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)
380-185639-1	AIEA GULCH WELLS PUMP 1	7 S1-	94	0 S1-	103	9 S1-	91
380-185639-3	AIEA GULCH WELLS PUMP 2	85	95	61	102	37	90
MB 570-664964/1-A	Method Blank	83	93	55	94	34	90

#### 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

### Percent Surrogate Recovery (Acceptance Limits)

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)
380-185639-1	AIEA GULCH WELLS PUMP 1	8 S1-	90	3 S1-	92	9 S1-	82
380-185639-3	AIEA GULCH WELLS PUMP 2	97	87	57	85	38	80
570-258138-C-1-A MS	Matrix Spike	92	75	59	78	40	56
570-258138-C-1-B MSD	Matrix Spike Duplicate	98	84	60	84	41	58
LCS 570-664964/2-A	Lab Control Sample	87	88	65	76	44	83
LCSD 570-664964/3-A	Lab Control Sample Dup	74	71	53	72	35	71
MB 570-664964/1-A	Method Blank	90	90	62	91	38	78

#### Surrogate Legend

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

# Surrogate Summary

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

Job ID: 380-185639-1  
 SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

Matrix: Water

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (38-134)
380-185639-1	AIEA GULCH WELLS PUMP 1	88
380-185639-2	TB: AIEA GULCH WELLS PUMP 1	91
380-185639-3	AIEA GULCH WELLS PUMP 2	85
380-185639-4	TB: AIEA GULCH WELLS PUMP 2	93
380-185646-C-1 MS	Matrix Spike	89
380-185646-C-1 MSD	Matrix Spike Duplicate	92
LCS 570-669820/4	Lab Control Sample	81
LCSD 570-669820/5	Lab Control Sample Dup	84
MB 570-669820/6	Method Blank	82
MRL 570-669820/3	Lab Control Sample	79

**Surrogate Legend**

BFB = 4-Bromofluorobenzene (Surr)

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

Matrix: Water

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	OTCSN1 (60-130)
380-185639-1	AIEA GULCH WELLS PUMP 1	98
380-185639-3	AIEA GULCH WELLS PUMP 2	85
LCS 570-664976/2-A	Lab Control Sample	100
LCSD 570-664976/3-A	Lab Control Sample Dup	94
MB 570-664976/1-A	Method Blank	84
MRL 570-664976/4-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: 380-185639-1  
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

**Lab Sample ID: MB 380-190100/21-A**  
**Matrix: Water**  
**Analysis Batch: 190375**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 190100**

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1-Methylnaphthalene	<0.098		0.098	ug/L		12/04/25 09:08	12/05/25 09:04	1
2,4'-DDD	<0.098		0.098	ug/L		12/04/25 09:08	12/05/25 09:04	1
2,4'-DDE	<0.098		0.098	ug/L		12/04/25 09:08	12/05/25 09:04	1
2,4'-DDT	<0.098		0.098	ug/L		12/04/25 09:08	12/05/25 09:04	1
2,4-Dinitrotoluene	<0.098		0.098	ug/L		12/04/25 09:08	12/05/25 09:04	1
2,6-Dinitrotoluene	<0.098		0.098	ug/L		12/04/25 09:08	12/05/25 09:04	1
2-Methylnaphthalene	<0.098		0.098	ug/L		12/04/25 09:08	12/05/25 09:04	1
4,4'-DDD	<0.098		0.098	ug/L		12/04/25 09:08	12/05/25 09:04	1
4,4'-DDE	<0.098		0.098	ug/L		12/04/25 09:08	12/05/25 09:04	1
4,4'-DDT	<0.098		0.098	ug/L		12/04/25 09:08	12/05/25 09:04	1
Acenaphthene	<0.098		0.098	ug/L		12/04/25 09:08	12/05/25 09:04	1
Acenaphthylene	<0.098		0.098	ug/L		12/04/25 09:08	12/05/25 09:04	1
Acetochlor	<0.098		0.098	ug/L		12/04/25 09:08	12/05/25 09:04	1
Alachlor	<0.049		0.049	ug/L		12/04/25 09:08	12/05/25 09:04	1
alpha-BHC	<0.098		0.098	ug/L		12/04/25 09:08	12/05/25 09:04	1
alpha-Chlordane	<0.049		0.049	ug/L		12/04/25 09:08	12/05/25 09:04	1
Anthracene	<0.020		0.020	ug/L		12/04/25 09:08	12/05/25 09:04	1
Atrazine	<0.049		0.049	ug/L		12/04/25 09:08	12/05/25 09:04	1
Benz(a)anthracene	<0.049		0.049	ug/L		12/04/25 09:08	12/05/25 09:04	1
Benzo[a]pyrene	<0.020		0.020	ug/L		12/04/25 09:08	12/05/25 09:04	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		12/04/25 09:08	12/05/25 09:04	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		12/04/25 09:08	12/05/25 09:04	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		12/04/25 09:08	12/05/25 09:04	1
beta-BHC	<0.098		0.098	ug/L		12/04/25 09:08	12/05/25 09:04	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		12/04/25 09:08	12/05/25 09:04	1
Bromacil	<0.098		0.098	ug/L		12/04/25 09:08	12/05/25 09:04	1
Butachlor	<0.049		0.049	ug/L		12/04/25 09:08	12/05/25 09:04	1
Butylbenzylphthalate	<0.49		0.49	ug/L		12/04/25 09:08	12/05/25 09:04	1
Chlorobenzilate	<0.098		0.098	ug/L		12/04/25 09:08	12/05/25 09:04	1
Chloroneb	<0.098		0.098	ug/L		12/04/25 09:08	12/05/25 09:04	1
Chlorothalonil (Draconil, Bravo)	<0.098		0.098	ug/L		12/04/25 09:08	12/05/25 09:04	1
Chlorpyrifos	<0.049		0.049	ug/L		12/04/25 09:08	12/05/25 09:04	1
Chrysene	<0.020		0.020	ug/L		12/04/25 09:08	12/05/25 09:04	1
delta-BHC	<0.098		0.098	ug/L		12/04/25 09:08	12/05/25 09:04	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		12/04/25 09:08	12/05/25 09:04	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		12/04/25 09:08	12/05/25 09:04	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		12/04/25 09:08	12/05/25 09:04	1
Dieldrin	<0.0098		0.0098	ug/L		12/04/25 09:08	12/05/25 09:04	1
Diethylphthalate	<0.49		0.49	ug/L		12/04/25 09:08	12/05/25 09:04	1
Dimethylphthalate	<0.49		0.49	ug/L		12/04/25 09:08	12/05/25 09:04	1
Di-n-butyl phthalate	<0.98		0.98	ug/L		12/04/25 09:08	12/05/25 09:04	1
Di-n-octyl phthalate	<0.098		0.098	ug/L		12/04/25 09:08	12/05/25 09:04	1
Endosulfan I (Alpha)	<0.098		0.098	ug/L		12/04/25 09:08	12/05/25 09:04	1
Endosulfan II (Beta)	<0.098		0.098	ug/L		12/04/25 09:08	12/05/25 09:04	1
Endosulfan sulfate	<0.098		0.098	ug/L		12/04/25 09:08	12/05/25 09:04	1
Endrin	<0.0098		0.0098	ug/L		12/04/25 09:08	12/05/25 09:04	1
Endrin aldehyde	<0.098		0.098	ug/L		12/04/25 09:08	12/05/25 09:04	1
EPTC	<0.098		0.098	ug/L		12/04/25 09:08	12/05/25 09:04	1

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-185639-1  
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

**Lab Sample ID: MB 380-190100/21-A**  
**Matrix: Water**  
**Analysis Batch: 190375**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 190100**

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Fluoranthene	<0.098		0.098	ug/L		12/04/25 09:08	12/05/25 09:04	1
Fluorene	<0.049		0.049	ug/L		12/04/25 09:08	12/05/25 09:04	1
gamma-Chlordane	<0.049		0.049	ug/L		12/04/25 09:08	12/05/25 09:04	1
Heptachlor	<0.0098		0.0098	ug/L		12/04/25 09:08	12/05/25 09:04	1
Heptachlor epoxide (isomer B)	<0.0098		0.0098	ug/L		12/04/25 09:08	12/05/25 09:04	1
Hexachlorobenzene	<0.049		0.049	ug/L		12/04/25 09:08	12/05/25 09:04	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		12/04/25 09:08	12/05/25 09:04	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		12/04/25 09:08	12/05/25 09:04	1
Isophorone	<0.098		0.098	ug/L		12/04/25 09:08	12/05/25 09:04	1
Lindane	<0.0098		0.0098	ug/L		12/04/25 09:08	12/05/25 09:04	1
Malathion	<0.098		0.098	ug/L		12/04/25 09:08	12/05/25 09:04	1
Methoxychlor	<0.049		0.049	ug/L		12/04/25 09:08	12/05/25 09:04	1
Metolachlor	<0.049		0.049	ug/L		12/04/25 09:08	12/05/25 09:04	1
Molinate	<0.098		0.098	ug/L		12/04/25 09:08	12/05/25 09:04	1
Naphthalene	<0.098		0.098	ug/L		12/04/25 09:08	12/05/25 09:04	1
Parathion	<0.098		0.098	ug/L		12/04/25 09:08	12/05/25 09:04	1
Pendimethalin (Penoxaline)	<0.098		0.098	ug/L		12/04/25 09:08	12/05/25 09:04	1
Phenanthrene	<0.039		0.039	ug/L		12/04/25 09:08	12/05/25 09:04	1
Propachlor	<0.049		0.049	ug/L		12/04/25 09:08	12/05/25 09:04	1
Pyrene	<0.049		0.049	ug/L		12/04/25 09:08	12/05/25 09:04	1
Simazine	<0.049		0.049	ug/L		12/04/25 09:08	12/05/25 09:04	1
Terbacil	<0.098		0.098	ug/L		12/04/25 09:08	12/05/25 09:04	1
Terbutylazine	<0.098		0.098	ug/L		12/04/25 09:08	12/05/25 09:04	1
Thiobencarb	<0.098		0.098	ug/L		12/04/25 09:08	12/05/25 09:04	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		12/04/25 09:08	12/05/25 09:04	1
trans-Nonachlor	<0.049		0.049	ug/L		12/04/25 09:08	12/05/25 09:04	1
Trifluralin	<0.098		0.098	ug/L		12/04/25 09:08	12/05/25 09:04	1

Tentatively Identified Compound	MB MB		Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
	Est. Result	Qualifier							
Cyclopentene, 1,2,3,4,5-pentamethyl-	1.30	T J N	ug/L		2.59	1000154-28-6	12/04/25 09:08	12/05/25 09:04	1
Unknown	0.541	T J	ug/L		3.04	N/A	12/04/25 09:08	12/05/25 09:04	1
Undecane	2.58	T J N	ug/L		3.18	1120-21-4	12/04/25 09:08	12/05/25 09:04	1
Cyclopentasiloxane, decamethyl-	0.818	T J N	ug/L		3.32	541-02-6	12/04/25 09:08	12/05/25 09:04	1
Cyclohexasiloxane, dodecamethyl-	0.563	T J N	ug/L		3.94	540-97-6	12/04/25 09:08	12/05/25 09:04	1
9-Octadecenamamide, (Z)-	1.31	T J N	ug/L		8.04	301-02-0	12/04/25 09:08	12/05/25 09:04	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Nitro-m-xylene	98		70 - 130	12/04/25 09:08	12/05/25 09:04	1
Perylene-d12	90		70 - 130	12/04/25 09:08	12/05/25 09:04	1
Triphenylphosphate	105		70 - 130	12/04/25 09:08	12/05/25 09:04	1

**Lab Sample ID: LCS 380-190100/23-A**  
**Matrix: Water**  
**Analysis Batch: 190375**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 190100**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-185639-1  
 SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

Lab Sample ID: LCS 380-190100/23-A

Matrix: Water

Analysis Batch: 190375

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 190100

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec Limits
	Added	Result	Qualifier				
2,4'-DDD	1.95	1.87		ug/L		96	70 - 130
2,4'-DDE	1.95	1.96		ug/L		101	70 - 130
2,4'-DDT	1.95	1.80		ug/L		92	70 - 130
2,4-Dinitrotoluene	1.95	1.52		ug/L		78	70 - 130
2,6-Dinitrotoluene	1.95	1.62		ug/L		83	70 - 130
2-Methylnaphthalene	1.95	1.91		ug/L		98	70 - 130
4,4'-DDD	1.95	1.86		ug/L		95	70 - 130
4,4'-DDE	1.95	1.84		ug/L		94	70 - 130
4,4'-DDT	1.95	1.85		ug/L		95	70 - 130
Acenaphthene	1.95	1.91		ug/L		98	70 - 130
Acenaphthylene	1.95	1.82		ug/L		93	70 - 130
Acetochlor	1.95	1.85		ug/L		95	70 - 130
Alachlor	1.95	1.85		ug/L		95	70 - 130
alpha-BHC	1.95	1.98		ug/L		101	70 - 130
alpha-Chlordane	1.95	1.89		ug/L		97	70 - 130
Anthracene	1.95	1.78		ug/L		91	70 - 130
Atrazine	1.95	1.85		ug/L		95	70 - 130
Benz(a)anthracene	1.95	2.08		ug/L		107	70 - 130
Benzo[a]pyrene	1.95	2.01		ug/L		103	70 - 130
Benzo[b]fluoranthene	1.95	2.05		ug/L		105	70 - 130
Benzo[g,h,i]perylene	1.95	1.91		ug/L		98	70 - 130
Benzo[k]fluoranthene	1.95	1.90		ug/L		98	70 - 130
beta-BHC	1.95	1.99		ug/L		102	70 - 130
Bis(2-ethylhexyl) phthalate	1.95	1.79		ug/L		92	70 - 130
Bromacil	1.95	1.40		ug/L		72	70 - 130
Butachlor	1.95	1.93		ug/L		99	70 - 130
Butylbenzylphthalate	1.95	2.18		ug/L		112	70 - 130
Chlorobenzilate	1.95	1.86		ug/L		96	70 - 130
Chloroneb	1.95	2.01		ug/L		103	70 - 130
Chlorothalonil (Draconil, Bravo)	1.95	1.89		ug/L		97	70 - 130
Chlorpyrifos	1.95	1.89		ug/L		97	70 - 130
Chrysene	1.95	2.05		ug/L		105	70 - 130
delta-BHC	1.95	1.91		ug/L		98	70 - 130
Di(2-ethylhexyl)adipate	1.95	1.89		ug/L		97	70 - 130
Dibenz(a,h)anthracene	1.95	1.88		ug/L		96	70 - 130
Diclorvos (DDVP)	1.95	1.79		ug/L		92	70 - 130
Dieldrin	1.95	1.81		ug/L		93	70 - 130
Diethylphthalate	1.95	2.05		ug/L		105	70 - 130
Dimethylphthalate	1.95	1.86		ug/L		95	70 - 130
Di-n-butyl phthalate	3.90	4.01		ug/L		103	70 - 130
Di-n-octyl phthalate	1.95	1.69		ug/L		87	70 - 130
Endosulfan I (Alpha)	1.95	2.00		ug/L		102	70 - 130
Endosulfan II (Beta)	1.95	1.83		ug/L		94	70 - 130
Endosulfan sulfate	1.95	1.87		ug/L		96	70 - 130
Endrin	1.95	2.10		ug/L		108	70 - 130
Endrin aldehyde	1.95	1.84		ug/L		94	60 - 130
EPTC	1.95	2.13		ug/L		109	70 - 130
Fluoranthene	1.95	1.91		ug/L		98	70 - 130
Fluorene	1.95	2.00		ug/L		102	70 - 130

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-185639-1  
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

Lab Sample ID: LCS 380-190100/23-A

Matrix: Water

Analysis Batch: 190375

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 190100

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
gamma-Chlordane	1.95	1.91		ug/L		98	70 - 130	
Heptachlor	1.95	1.77		ug/L		91	70 - 130	
Heptachlor epoxide (isomer B)	1.95	2.06		ug/L		106	70 - 130	
Hexachlorobenzene	1.95	1.87		ug/L		96	70 - 130	
Hexachlorocyclopentadiene	1.95	1.81		ug/L		93	70 - 130	
Indeno[1,2,3-cd]pyrene	1.95	1.96		ug/L		100	70 - 130	
Isophorone	1.95	1.81		ug/L		93	70 - 130	
Lindane	1.95	2.15		ug/L		110	70 - 130	
Malathion	1.95	1.83		ug/L		94	70 - 130	
Methoxychlor	1.95	1.89		ug/L		97	70 - 130	
Metolachlor	1.95	1.84		ug/L		94	70 - 130	
Molinate	1.95	1.99		ug/L		102	70 - 130	
Naphthalene	1.95	1.82		ug/L		93	70 - 130	
Parathion	1.95	1.96		ug/L		100	70 - 130	
Pendimethalin (Penoxaline)	1.95	1.87		ug/L		96	70 - 130	
Phenanthrene	1.95	1.92		ug/L		98	70 - 130	
Propachlor	1.95	2.08		ug/L		106	70 - 130	
Pyrene	1.95	1.95		ug/L		100	70 - 130	
Simazine	1.95	1.64		ug/L		84	70 - 130	
Terbacil	1.95	1.62		ug/L		83	70 - 130	
Terbuthylazine	1.95	1.92		ug/L		98	70 - 130	
Thiobencarb	1.95	1.95		ug/L		100	70 - 130	
trans-Nonachlor	1.95	1.89		ug/L		97	70 - 130	
Trifluralin	1.95	1.73		ug/L		89	70 - 130	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	96		70 - 130
Perylene-d12	95		70 - 130
Triphenylphosphate	105		70 - 130

Lab Sample ID: LCSD 380-190100/24-A

Matrix: Water

Analysis Batch: 190375

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 190100

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	
							Limits		RPD	Limit
1-Methylnaphthalene	1.93	1.96		ug/L		102	70 - 130	5	20	
2,4'-DDD	1.93	1.96		ug/L		101	70 - 130	5	20	
2,4'-DDE	1.93	2.07		ug/L		107	70 - 130	5	20	
2,4'-DDT	1.93	1.85		ug/L		96	70 - 130	3	20	
2,4-Dinitrotoluene	1.93	1.56		ug/L		81	70 - 130	3	20	
2,6-Dinitrotoluene	1.93	1.68		ug/L		87	70 - 130	4	20	
2-Methylnaphthalene	1.93	2.00		ug/L		103	70 - 130	5	20	
4,4'-DDD	1.93	1.93		ug/L		100	70 - 130	4	20	
4,4'-DDE	1.93	1.93		ug/L		100	70 - 130	5	20	
4,4'-DDT	1.93	1.94		ug/L		101	70 - 130	5	20	
Acenaphthene	1.93	1.96		ug/L		101	70 - 130	3	20	
Acenaphthylene	1.93	1.98		ug/L		102	70 - 130	8	20	
Acetochlor	1.93	1.94		ug/L		100	70 - 130	5	20	

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-185639-1  
 SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

Lab Sample ID: LCSD 380-190100/24-A

Matrix: Water

Analysis Batch: 190375

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 190100

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD
									Limit
Alachlor	1.93	1.92		ug/L		99	70 - 130	4	20
alpha-BHC	1.93	2.04		ug/L		106	70 - 130	3	20
alpha-Chlordane	1.93	2.01		ug/L		104	70 - 130	6	20
Anthracene	1.93	1.81		ug/L		94	70 - 130	2	20
Atrazine	1.93	1.82		ug/L		94	70 - 130	1	20
Benz(a)anthracene	1.93	2.14		ug/L		111	70 - 130	3	20
Benzo[a]pyrene	1.93	2.05		ug/L		106	70 - 130	2	20
Benzo[b]fluoranthene	1.93	2.04		ug/L		105	70 - 130	1	20
Benzo[g,h,i]perylene	1.93	2.04		ug/L		106	70 - 130	7	20
Benzo[k]fluoranthene	1.93	2.00		ug/L		103	70 - 130	5	20
beta-BHC	1.93	2.08		ug/L		108	70 - 130	5	20
Bis(2-ethylhexyl) phthalate	1.93	1.97		ug/L		102	70 - 130	10	20
Bromacil	1.93	1.44		ug/L		75	70 - 130	3	20
Butachlor	1.93	2.01		ug/L		104	70 - 130	4	20
Butylbenzylphthalate	1.93	2.24		ug/L		116	70 - 130	3	20
Chlorobenzilate	1.93	1.92		ug/L		100	70 - 130	3	20
Chloroneb	1.93	2.06		ug/L		107	70 - 130	2	20
Chlorothalonil (Draconil, Bravo)	1.93	1.95		ug/L		101	70 - 130	3	20
Chlorpyrifos	1.93	2.00		ug/L		104	70 - 130	5	20
Chrysene	1.93	2.08		ug/L		108	70 - 130	1	20
delta-BHC	1.93	2.03		ug/L		105	70 - 130	6	20
Di(2-ethylhexyl)adipate	1.93	2.13		ug/L		110	70 - 130	12	20
Dibenz(a,h)anthracene	1.93	2.00		ug/L		104	70 - 130	6	20
Diclorvos (DDVP)	1.93	1.79		ug/L		93	70 - 130	0	20
Dieldrin	1.93	1.94		ug/L		101	70 - 130	7	20
Diethylphthalate	1.93	2.08		ug/L		108	70 - 130	1	20
Dimethylphthalate	1.93	1.90		ug/L		98	70 - 130	2	20
Di-n-butyl phthalate	3.86	4.11		ug/L		106	70 - 130	3	20
Di-n-octyl phthalate	1.93	1.89		ug/L		98	70 - 130	11	20
Endosulfan I (Alpha)	1.93	2.07		ug/L		107	70 - 130	4	20
Endosulfan II (Beta)	1.93	1.93		ug/L		100	70 - 130	5	20
Endosulfan sulfate	1.93	1.94		ug/L		101	70 - 130	4	20
Endrin	1.93	2.19		ug/L		113	70 - 130	4	20
Endrin aldehyde	1.93	1.90		ug/L		99	60 - 130	4	20
EPTC	1.93	2.19		ug/L		113	70 - 130	3	20
Fluoranthene	1.93	1.98		ug/L		102	70 - 130	4	20
Fluorene	1.93	2.05		ug/L		106	70 - 130	3	20
gamma-Chlordane	1.93	1.98		ug/L		102	70 - 130	4	20
Heptachlor	1.93	1.84		ug/L		95	70 - 130	4	20
Heptachlor epoxide (isomer B)	1.93	2.16		ug/L		112	70 - 130	4	20
Hexachlorobenzene	1.93	1.95		ug/L		101	70 - 130	4	20
Hexachlorocyclopentadiene	1.93	1.91		ug/L		99	70 - 130	5	20
Indeno[1,2,3-cd]pyrene	1.93	2.06		ug/L		107	70 - 130	5	20
Isophorone	1.93	1.88		ug/L		97	70 - 130	4	20
Lindane	1.93	2.20		ug/L		114	70 - 130	2	20
Malathion	1.93	1.95		ug/L		101	70 - 130	6	20
Methoxychlor	1.93	1.89		ug/L		98	70 - 130	0	20
Metolachlor	1.93	1.95		ug/L		101	70 - 130	6	20
Molinate	1.93	2.02		ug/L		105	70 - 130	1	20

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-185639-1  
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

**Lab Sample ID: LCSD 380-190100/24-A**

**Matrix: Water**

**Analysis Batch: 190375**

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

**Prep Type: Total/NA**

**Prep Batch: 190100**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Naphthalene	1.93	1.94		ug/L		100	70 - 130	6	20	
Parathion	1.93	2.01		ug/L		104	70 - 130	3	20	
Pendimethalin (Penoxaline)	1.93	1.94		ug/L		100	70 - 130	3	20	
Phenanthrene	1.93	1.97		ug/L		102	70 - 130	3	20	
Propachlor	1.93	2.09		ug/L		108	70 - 130	1	20	
Pyrene	1.93	1.98		ug/L		103	70 - 130	2	20	
Simazine	1.93	1.66		ug/L		86	70 - 130	1	20	
Terbacil	1.93	1.70		ug/L		88	70 - 130	5	20	
Terbutylazine	1.93	1.94		ug/L		100	70 - 130	1	20	
Thiobencarb	1.93	2.00		ug/L		103	70 - 130	2	20	
trans-Nonachlor	1.93	1.98		ug/L		102	70 - 130	5	20	
Trifluralin	1.93	1.75		ug/L		91	70 - 130	1	20	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	98		70 - 130
Perylene-d12	99		70 - 130
Triphenylphosphate	105		70 - 130

**Lab Sample ID: MRL 380-190100/22-A**

**Matrix: Water**

**Analysis Batch: 190375**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 190100**

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec	
							Limits	RPD
1-Methylnaphthalene	0.0973	0.105		ug/L		108	50 - 150	
2,4'-DDD	0.0973	0.0914	J	ug/L		94	50 - 150	
2,4'-DDE	0.0973	0.0925	J	ug/L		95	50 - 150	
2,4'-DDT	0.0973	0.107		ug/L		110	50 - 150	
2,4-Dinitrotoluene	0.0973	0.101		ug/L		103	50 - 150	
2,6-Dinitrotoluene	0.0973	0.113		ug/L		116	50 - 150	
2-Methylnaphthalene	0.0973	0.100		ug/L		103	50 - 150	
4,4'-DDD	0.0973	0.110		ug/L		113	50 - 150	
4,4'-DDE	0.0973	0.0887	J	ug/L		91	50 - 150	
4,4'-DDT	0.0973	0.115		ug/L		118	50 - 150	
Acenaphthene	0.0973	0.0879	J	ug/L		90	50 - 150	
Acenaphthylene	0.0973	0.0771	J	ug/L		79	50 - 150	
Acetochlor	0.0973	0.113		ug/L		117	50 - 150	
Alachlor	0.0487	0.0628		ug/L		129	50 - 150	
alpha-BHC	0.0973	0.0959	J	ug/L		99	50 - 150	
alpha-Chlordane	0.0243	0.0328	J	ug/L		135	50 - 150	
Anthracene	0.0195	0.0219		ug/L		113	50 - 150	
Atrazine	0.0487	0.0687		ug/L		141	50 - 150	
Benz(a)anthracene	0.0487	0.0532		ug/L		109	50 - 150	
Benzo[a]pyrene	0.0195	0.0250		ug/L		128	50 - 150	
Benzo[b]fluoranthene	0.0195	0.0236		ug/L		121	50 - 150	
Benzo[g,h,i]perylene	0.0487	0.0495		ug/L		102	50 - 150	
Benzo[k]fluoranthene	0.0195	0.0225		ug/L		116	50 - 150	
beta-BHC	0.0973	0.105		ug/L		108	50 - 150	
Bis(2-ethylhexyl) phthalate	0.584	0.591		ug/L		101	50 - 150	

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-185639-1  
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

**Lab Sample ID: MRL 380-190100/22-A**  
**Matrix: Water**  
**Analysis Batch: 190375**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 190100**

Analyte	Spike	MRL	MRL	Unit	D	%Rec	%Rec Limits
	Added	Result	Qualifier				
Bromacil	0.0973	0.110		ug/L		113	50 - 150
Butachlor	0.0487	0.0685		ug/L		141	50 - 150
Butylbenzylphthalate	0.487	0.569		ug/L		117	50 - 150
Chlorobenzilate	0.0973	0.102		ug/L		105	50 - 150
Chloroneb	0.0973	0.0931	J	ug/L		96	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0973	0.128		ug/L		131	50 - 150
Chlorpyrifos	0.0487	0.0631		ug/L		130	50 - 150
Chrysene	0.0195	0.0188	J	ug/L		97	50 - 150
delta-BHC	0.0973	0.0960	J	ug/L		99	50 - 150
Di(2-ethylhexyl)adipate	0.584	0.621		ug/L		106	50 - 150
Dibenz(a,h)anthracene	0.0487	0.0499		ug/L		102	50 - 150
Diclorvos (DDVP)	0.0487	0.0555		ug/L		114	50 - 150
Dieldrin	0.00973	0.0132		ug/L		135	50 - 150
Diethylphthalate	0.487	0.520		ug/L		107	50 - 150
Dimethylphthalate	0.487	0.473	J	ug/L		97	50 - 150
Di-n-butyl phthalate	0.487	0.539	J	ug/L		111	49 - 243
Di-n-octyl phthalate	0.0973	0.102		ug/L		105	50 - 150
Endosulfan I (Alpha)	0.0973	0.0850	J	ug/L		87	50 - 150
Endosulfan II (Beta)	0.0973	0.103		ug/L		106	50 - 150
Endosulfan sulfate	0.0973	0.103		ug/L		106	50 - 150
Endrin	0.00973	0.00866	J	ug/L		89	50 - 150
Endrin aldehyde	0.0973	0.110		ug/L		113	50 - 150
EPTC	0.0973	0.102		ug/L		105	50 - 150
Fluoranthene	0.0973	0.0998		ug/L		103	50 - 150
Fluorene	0.0487	<0.049		ug/L		95	50 - 150
gamma-Chlordane	0.0243	0.0329	J	ug/L		135	50 - 150
Heptachlor	0.00973	0.0122		ug/L		125	50 - 150
Heptachlor epoxide (isomer B)	0.00973	0.0109		ug/L		112	50 - 150
Hexachlorobenzene	0.0487	0.0459	J	ug/L		94	50 - 150
Hexachlorocyclopentadiene	0.0487	0.0478	J	ug/L		98	50 - 150
Indeno[1,2,3-cd]pyrene	0.0487	0.0565		ug/L		116	50 - 150
Isophorone	0.0973	0.117		ug/L		120	50 - 150
Lindane	0.00973	0.0122		ug/L		126	50 - 150
Malathion	0.0973	0.110		ug/L		113	50 - 150
Methoxychlor	0.0487	0.0707		ug/L		145	50 - 150
Metolachlor	0.0487	0.0627		ug/L		129	50 - 150
Molinate	0.0973	0.112		ug/L		115	50 - 150
Naphthalene	0.0973	0.0965	J	ug/L		99	50 - 150
Parathion	0.0973	0.0954	J	ug/L		98	50 - 150
Pendimethalin (Penoxaline)	0.0973	0.0965	J	ug/L		99	50 - 150
Phenanthrene	0.0389	0.0388	J	ug/L		100	50 - 150
Propachlor	0.0487	0.0507		ug/L		104	50 - 150
Pyrene	0.0487	0.0628		ug/L		129	50 - 150
Simazine	0.0487	0.0676		ug/L		139	50 - 150
Terbacil	0.0973	0.0982		ug/L		101	50 - 150
Terbuthylazine	0.0973	0.106		ug/L		109	50 - 150
Thiobencarb	0.0973	0.114		ug/L		117	50 - 150
trans-Nonachlor	0.0243	0.0316	J	ug/L		130	50 - 150
Trifluralin	0.0973	0.0991		ug/L		102	50 - 150

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-185639-1  
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

<i>Surrogate</i>	<i>MRL</i> %Recovery	<i>MRL</i> Qualifier	<i>Limits</i>
2-Nitro- <i>m</i> -xylene	97		70 - 130
Perylene- <i>d</i> 12	89		70 - 130
Triphenylphosphate	106		70 - 130

**Lab Sample ID: 380-185621-H-1-A MS**

**Matrix: Water**

**Analysis Batch: 190375**

**Client Sample ID: Matrix Spike**

**Prep Type: Total/NA**

**Prep Batch: 190100**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec
	Result	Qualifier	Added	Result	Qualifier				Limits
1-Methylnaphthalene	<0.097		1.93	1.93		ug/L		100	70 - 130
2,4'-DDD	<0.097		1.93	1.96		ug/L		101	70 - 130
2,4'-DDE	<0.097		1.93	2.07		ug/L		107	70 - 130
2,4'-DDT	<0.097		1.93	2.01		ug/L		104	70 - 130
2,4-Dinitrotoluene	<0.097		1.93	1.79		ug/L		93	70 - 130
2,6-Dinitrotoluene	<0.097		1.93	1.87		ug/L		97	70 - 130
2-Methylnaphthalene	<0.097		1.93	1.98		ug/L		102	70 - 130
4,4'-DDD	<0.097		1.93	1.98		ug/L		102	70 - 130
4,4'-DDE	<0.097		1.93	1.96		ug/L		101	70 - 130
4,4'-DDT	<0.097		1.93	2.01		ug/L		104	70 - 130
Acenaphthene	<0.097		1.93	1.96		ug/L		101	70 - 130
Acenaphthylene	<0.097		1.93	2.06		ug/L		107	70 - 130
Acetochlor	<0.097		1.93	1.83		ug/L		95	70 - 130
Alachlor	<0.048		1.93	1.84		ug/L		95	70 - 130
alpha-BHC	<0.097		1.93	2.01		ug/L		104	70 - 130
alpha-Chlordane	<0.048		1.93	1.98		ug/L		102	70 - 130
Anthracene	<0.019		1.93	1.66		ug/L		86	70 - 130
Atrazine	<0.048		1.93	1.74		ug/L		90	70 - 130
Benz(a)anthracene	<0.048		1.93	2.20		ug/L		114	70 - 130
Benzo[a]pyrene	<0.019		1.93	2.01		ug/L		104	70 - 130
Benzo[b]fluoranthene	<0.019		1.93	2.09		ug/L		108	70 - 130
Benzo[g,h,i]perylene	<0.048		1.93	1.95		ug/L		101	70 - 130
Benzo[k]fluoranthene	<0.019		1.93	1.90		ug/L		98	70 - 130
beta-BHC	<0.097		1.93	2.05		ug/L		106	70 - 130
Bis(2-ethylhexyl) phthalate	<0.58		1.93	2.05		ug/L		106	70 - 130
Bromacil	<0.097		1.93	1.63		ug/L		84	70 - 130
Butachlor	<0.048		1.93	1.95		ug/L		101	70 - 130
Butylbenzylphthalate	<0.48		1.93	2.23		ug/L		116	70 - 130
Chlorobenzilate	<0.097		1.93	2.08		ug/L		108	70 - 130
Chloroneb	<0.097		1.93	1.98		ug/L		103	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.097		1.93	1.94		ug/L		100	70 - 130
Chlorpyrifos	<0.048		1.93	2.00		ug/L		103	70 - 130
Chrysene	<0.019		1.93	2.04		ug/L		105	70 - 130
delta-BHC	<0.097		1.93	1.99		ug/L		103	70 - 130
Di(2-ethylhexyl)adipate	<0.58		1.93	2.18		ug/L		113	70 - 130
Dibenz(a,h)anthracene	<0.048		1.93	1.94		ug/L		100	70 - 130
Diclorvos (DDVP)	<0.048		1.93	1.88		ug/L		98	70 - 130
Dieldrin	<0.0097		1.93	1.88		ug/L		97	70 - 130
Diethylphthalate	<0.48		1.93	2.11		ug/L		109	70 - 130
Dimethylphthalate	<0.48		1.93	1.95		ug/L		101	70 - 130
Di-n-butyl phthalate	<0.97		3.86	4.08		ug/L		106	70 - 130
Di-n-octyl phthalate	<0.097		1.93	1.95		ug/L		101	70 - 130

# QC Sample Results

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

Job ID: 380-185639-1  
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

Lab Sample ID: 380-185621-H-1-A MS

Client Sample ID: Matrix Spike

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 190375

Prep Batch: 190100

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
Endosulfan I (Alpha)	<0.097		1.93	2.09		ug/L		108	70 - 130
Endosulfan II (Beta)	<0.097		1.93	1.91		ug/L		99	70 - 130
Endosulfan sulfate	<0.097		1.93	1.87		ug/L		97	70 - 130
Endrin	<0.0097		1.93	1.74		ug/L		90	70 - 130
Endrin aldehyde	<0.097		1.93	1.59		ug/L		82	60 - 130
EPTC	<0.097		1.93	2.15		ug/L		111	70 - 130
Fluoranthene	<0.097		1.93	1.99		ug/L		103	70 - 130
Fluorene	<0.048		1.93	2.03		ug/L		105	70 - 130
gamma-Chlordane	<0.048		1.93	1.94		ug/L		100	70 - 130
Heptachlor	<0.0097		1.93	1.89		ug/L		98	70 - 130
Heptachlor epoxide (isomer B)	<0.0097		1.93	2.13		ug/L		110	70 - 130
Hexachlorobenzene	<0.048		1.93	1.93		ug/L		100	70 - 130
Hexachlorocyclopentadiene	<0.048		1.93	1.96		ug/L		101	70 - 130
Indeno[1,2,3-cd]pyrene	<0.048		1.93	2.08		ug/L		107	70 - 130
Isophorone	<0.097		1.93	1.88		ug/L		97	70 - 130
Lindane	<0.0097		1.93	2.17		ug/L		112	70 - 130
Malathion	<0.097		1.93	1.95		ug/L		101	70 - 130
Methoxychlor	<0.048		1.93	2.03		ug/L		105	70 - 130
Metolachlor	0.052		1.93	1.95		ug/L		98	70 - 130
Molinate	<0.097		1.93	2.02		ug/L		104	70 - 130
Naphthalene	<0.097		1.93	1.89		ug/L		98	70 - 130
Parathion	<0.097		1.93	2.17		ug/L		112	70 - 130
Pendimethalin (Penoxaline)	<0.097		1.93	2.12		ug/L		110	70 - 130
Phenanthrene	<0.039		1.93	1.97		ug/L		102	70 - 130
Propachlor	<0.048		1.93	2.13		ug/L		110	70 - 130
Pyrene	<0.048		1.93	2.00		ug/L		103	70 - 130
Simazine	<0.048		1.93	1.60		ug/L		83	70 - 130
Terbacil	<0.097		1.93	1.64		ug/L		85	70 - 130
Terbutylazine	<0.097		1.93	1.85		ug/L		96	70 - 130
Thiobencarb	<0.097		1.93	2.00		ug/L		104	70 - 130
trans-Nonachlor	<0.048		1.93	1.96		ug/L		101	70 - 130
Trifluralin	<0.097		1.93	1.85		ug/L		96	70 - 130

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	97		70 - 130
Perylene-d12	99		70 - 130
Triphenylphosphate	108		70 - 130

Lab Sample ID: 380-185639-1 DU

Client Sample ID: AIEA GULCH WELLS PUMP 1

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 190375

Prep Batch: 190100

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
1-Methylnaphthalene	<0.098		<0.098		ug/L		NC	20
2,4'-DDD	<0.098		<0.098		ug/L		NC	20
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

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-185639-1  
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

Lab Sample ID: 380-185639-1 DU

Client Sample ID: AIEA GULCH WELLS PUMP 1

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 190375

Prep Batch: 190100

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
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	<0.0098		<0.0098		ug/L		NC	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
Heptachlor	<0.0098		<0.0098		ug/L		NC	20
Heptachlor epoxide (isomer B)	<0.0098		<0.0098		ug/L		NC	20
Hexachlorobenzene	<0.049		<0.049		ug/L		NC	20

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-185639-1  
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

Lab Sample ID: 380-185639-1 DU

Matrix: Water

Analysis Batch: 190375

Client Sample ID: AIEA GULCH WELLS PUMP 1

Prep Type: Total/NA

Prep Batch: 190100

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
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	DU	Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	98		70 - 130
Perylene-d12	86		70 - 130
Triphenylphosphate	108		70 - 130

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

Lab Sample ID: MB 570-664964/1-A

Matrix: Water

Analysis Batch: 668191

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 664964

Tentatively Identified Compound	MB	MB	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
	Est. Result	Qualifier							
Tentatively Identified Compound	None		ug/L			N/A	12/04/25 13:53	12/11/25 08:57	1

  

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4,6-Tribromophenol (Surr)	83		33 - 139	12/04/25 13:53	12/11/25 08:57	1
2-Fluorobiphenyl (Surr)	93		33 - 126	12/04/25 13:53	12/11/25 08:57	1
2-Fluorophenol (Surr)	55		12 - 120	12/04/25 13:53	12/11/25 08:57	1
Nitrobenzene-d5 (Surr)	94		36 - 120	12/04/25 13:53	12/11/25 08:57	1
Phenol-d6 (Surr)	34		10 - 120	12/04/25 13:53	12/11/25 08:57	1
p-Terphenyl-d14 (Surr)	90		47 - 131	12/04/25 13:53	12/11/25 08:57	1

# QC Sample Results

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

Job ID: 380-185639-1  
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

**Lab Sample ID: MB 570-664964/1-A**  
**Matrix: Water**  
**Analysis Batch: 667626**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 664964**

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1-Methylnaphthalene	<0.20		0.20	ug/L		12/04/25 13:53	12/10/25 07:01	1
2-Methylnaphthalene	<0.20		0.20	ug/L		12/04/25 13:53	12/10/25 07:01	1
Acenaphthene	<0.20		0.20	ug/L		12/04/25 13:53	12/10/25 07:01	1
Acenaphthylene	<0.20		0.20	ug/L		12/04/25 13:53	12/10/25 07:01	1
Anthracene	<0.20		0.20	ug/L		12/04/25 13:53	12/10/25 07:01	1
Benzo[a]anthracene	<0.20		0.20	ug/L		12/04/25 13:53	12/10/25 07:01	1
Benzo[a]pyrene	<0.20		0.20	ug/L		12/04/25 13:53	12/10/25 07:01	1
Benzo[b]fluoranthene	<0.20		0.20	ug/L		12/04/25 13:53	12/10/25 07:01	1
Benzo[g,h,i]perylene	<0.20		0.20	ug/L		12/04/25 13:53	12/10/25 07:01	1
Benzo[k]fluoranthene	<0.20		0.20	ug/L		12/04/25 13:53	12/10/25 07:01	1
Chrysene	<0.20		0.20	ug/L		12/04/25 13:53	12/10/25 07:01	1
Dibenz(a,h)anthracene	<0.20		0.20	ug/L		12/04/25 13:53	12/10/25 07:01	1
Fluoranthene	<0.20		0.20	ug/L		12/04/25 13:53	12/10/25 07:01	1
Fluorene	<0.20		0.20	ug/L		12/04/25 13:53	12/10/25 07:01	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20	ug/L		12/04/25 13:53	12/10/25 07:01	1
Naphthalene	<0.20		0.20	ug/L		12/04/25 13:53	12/10/25 07:01	1
Phenanthrene	<0.20		0.20	ug/L		12/04/25 13:53	12/10/25 07:01	1
Pyrene	<0.20		0.20	ug/L		12/04/25 13:53	12/10/25 07:01	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4,6-Tribromophenol (Surr)	90		28 - 127	12/04/25 13:53	12/10/25 07:01	1
2-Fluorobiphenyl (Surr)	90		31 - 120	12/04/25 13:53	12/10/25 07:01	1
2-Fluorophenol (Surr)	62		17 - 120	12/04/25 13:53	12/10/25 07:01	1
Nitrobenzene-d5 (Surr)	91		27 - 120	12/04/25 13:53	12/10/25 07:01	1
Phenol-d6 (Surr)	38		10 - 120	12/04/25 13:53	12/10/25 07:01	1
p-Terphenyl-d14 (Surr)	78		45 - 120	12/04/25 13:53	12/10/25 07:01	1

**Lab Sample ID: LCS 570-664964/2-A**  
**Matrix: Water**  
**Analysis Batch: 667232**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 664964**

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
1-Methylnaphthalene	20.0	14.2		ug/L		71	47 - 120
2-Methylnaphthalene	20.0	14.0		ug/L		70	43 - 120
Acenaphthene	20.0	17.7		ug/L		89	60 - 132
Acenaphthylene	20.0	16.8		ug/L		84	54 - 126
Anthracene	20.0	17.5		ug/L		88	43 - 120
Benzo[a]anthracene	20.0	17.0		ug/L		85	42 - 133
Benzo[a]pyrene	20.0	17.9		ug/L		89	32 - 148
Benzo[b]fluoranthene	20.0	17.6		ug/L		88	42 - 140
Benzo[g,h,i]perylene	20.0	17.9		ug/L		90	1 - 195
Benzo[k]fluoranthene	20.0	17.0		ug/L		85	25 - 146
Chrysene	20.0	17.2		ug/L		86	44 - 140
Dibenz(a,h)anthracene	20.0	19.2		ug/L		96	1 - 200
Fluoranthene	20.0	18.1		ug/L		90	43 - 121
Fluorene	20.0	17.7		ug/L		89	70 - 120
Indeno[1,2,3-cd]pyrene	20.0	18.7		ug/L		93	1 - 151
Naphthalene	20.0	13.7		ug/L		69	36 - 120

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-185639-1  
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

Lab Sample ID: LCS 570-664964/2-A

Matrix: Water

Analysis Batch: 667232

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 664964

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Phenanthrene	20.0	18.0		ug/L		90	65 - 120
Pyrene	20.0	17.6		ug/L		88	70 - 120

Surrogate	LCS		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	87		28 - 127
2-Fluorobiphenyl (Surr)	88		31 - 120
2-Fluorophenol (Surr)	65		17 - 120
Nitrobenzene-d5 (Surr)	76		27 - 120
Phenol-d6 (Surr)	44		10 - 120
p-Terphenyl-d14 (Surr)	83		45 - 120

Lab Sample ID: LCSD 570-664964/3-A

Matrix: Water

Analysis Batch: 667626

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 664964

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec Limits	RPD	
		Result	Qualifier					RPD	Limit
1-Methylnaphthalene	20.0	13.4		ug/L		67	47 - 120	6	20
2-Methylnaphthalene	20.0	13.4		ug/L		67	43 - 120	4	20
Acenaphthene	20.0	14.3		ug/L		71	60 - 132	22	29
Acenaphthylene	20.0	13.0		ug/L		65	54 - 126	25	45
Anthracene	20.0	14.9		ug/L		74	43 - 120	16	40
Benzo[a]anthracene	20.0	14.5		ug/L		72	42 - 133	16	32
Benzo[a]pyrene	20.0	15.1		ug/L		76	32 - 148	17	43
Benzo[b]fluoranthene	20.0	14.8		ug/L		74	42 - 140	18	43
Benzo[g,h,i]perylene	20.0	15.8		ug/L		79	1 - 195	13	61
Benzo[k]fluoranthene	20.0	14.8		ug/L		74	25 - 146	13	38
Chrysene	20.0	14.6		ug/L		73	44 - 140	16	53
Dibenz(a,h)anthracene	20.0	17.1		ug/L		86	1 - 200	12	75
Fluoranthene	20.0	15.4		ug/L		77	43 - 121	16	40
Fluorene	20.0	14.4		ug/L		72	70 - 120	21	23
Indeno[1,2,3-cd]pyrene	20.0	16.5		ug/L		83	1 - 151	12	60
Naphthalene	20.0	13.6		ug/L		68	36 - 120	1	39
Phenanthrene	20.0	15.1		ug/L		75	65 - 120	18	24
Pyrene	20.0	14.8		ug/L		74	70 - 120	18	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	74		28 - 127
2-Fluorobiphenyl (Surr)	71		31 - 120
2-Fluorophenol (Surr)	53		17 - 120
Nitrobenzene-d5 (Surr)	72		27 - 120
Phenol-d6 (Surr)	35		10 - 120
p-Terphenyl-d14 (Surr)	71		45 - 120

# QC Sample Results

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

Job ID: 380-185639-1  
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

**Lab Sample ID: 570-258138-C-1-A MS**

**Client Sample ID: Matrix Spike**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 668195**

**Prep Batch: 664964**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
1-Methylnaphthalene	<0.19		19.2	14.8		ug/L		76	36 - 120
2-Methylnaphthalene	<0.19		19.2	14.2		ug/L		74	32 - 124
Acenaphthene	<0.19		19.2	15.6		ug/L		81	47 - 145
Acenaphthylene	<0.19		19.2	17.0		ug/L		88	33 - 145
Anthracene	<0.19		19.2	14.3		ug/L		74	27 - 133
Benzo[a]anthracene	<0.19		19.2	12.5		ug/L		65	33 - 143
Benzo[a]pyrene	<0.19		19.2	12.2		ug/L		63	17 - 163
Benzo[b]fluoranthene	<0.19		19.2	13.5		ug/L		70	24 - 159
Benzo[g,h,i]perylene	<0.19		19.2	13.9		ug/L		72	1 - 219
Benzo[k]fluoranthene	<0.19		19.2	13.5		ug/L		70	11 - 162
Chrysene	<0.19		19.2	13.5		ug/L		70	17 - 168
Dibenz(a,h)anthracene	<0.19		19.2	15.2		ug/L		79	1 - 227
Fluoranthene	<0.19		19.2	14.2		ug/L		74	26 - 137
Fluorene	<0.19		19.2	15.2		ug/L		79	59 - 121
Indeno[1,2,3-cd]pyrene	<0.19		19.2	14.1		ug/L		73	1 - 171
Naphthalene	<0.19		19.2	15.5		ug/L		81	21 - 133
Phenanthrene	<0.19		19.2	15.7		ug/L		81	54 - 120
Pyrene	<0.19		19.2	13.6		ug/L		71	52 - 120

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	92		28 - 127
2-Fluorobiphenyl (Surr)	75		31 - 120
2-Fluorophenol (Surr)	59		17 - 120
Nitrobenzene-d5 (Surr)	78		27 - 120
Phenol-d6 (Surr)	40		10 - 120
p-Terphenyl-d14 (Surr)	56		45 - 120

**Lab Sample ID: 570-258138-C-1-B MSD**

**Client Sample ID: Matrix Spike Duplicate**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 668195**

**Prep Batch: 664964**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
	Result	Qualifier	Added	Result	Qualifier						
1-Methylnaphthalene	<0.19		19.4	16.0		ug/L		81	36 - 120	7	30
2-Methylnaphthalene	<0.19		19.4	15.9		ug/L		82	32 - 124	11	30
Acenaphthene	<0.19		19.4	16.8		ug/L		86	47 - 145	7	48
Acenaphthylene	<0.19		19.4	17.1		ug/L		88	33 - 145	1	74
Anthracene	<0.19		19.4	15.1		ug/L		78	27 - 133	6	66
Benzo[a]anthracene	<0.19		19.4	12.8		ug/L		66	33 - 143	3	53
Benzo[a]pyrene	<0.19		19.4	11.6		ug/L		60	17 - 163	5	72
Benzo[b]fluoranthene	<0.19		19.4	13.6		ug/L		70	24 - 159	1	71
Benzo[g,h,i]perylene	<0.19		19.4	21.0		ug/L		108	1 - 219	40	97
Benzo[k]fluoranthene	<0.19		19.4	13.4		ug/L		69	11 - 162	1	63
Chrysene	<0.19		19.4	13.8		ug/L		71	17 - 168	2	87
Dibenz(a,h)anthracene	<0.19		19.4	24.2		ug/L		125	1 - 227	46	126
Fluoranthene	<0.19		19.4	14.5		ug/L		75	26 - 137	2	66
Fluorene	<0.19		19.4	16.4		ug/L		84	59 - 121	7	38
Indeno[1,2,3-cd]pyrene	<0.19		19.4	21.9		ug/L		112	1 - 171	43	99
Naphthalene	<0.19		19.4	16.8		ug/L		86	21 - 133	8	65

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-185639-1  
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

**Lab Sample ID: 570-258138-C-1-B MSD**

**Matrix: Water**

**Analysis Batch: 668195**

**Client Sample ID: Matrix Spike Duplicate**

**Prep Type: Total/NA**

**Prep Batch: 664964**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
Phenanthrene	<0.19		19.4	16.2		ug/L		83	54 - 120	4	39
Pyrene	<0.19		19.4	13.8		ug/L		71	52 - 120	2	49

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	98		28 - 127
2-Fluorobiphenyl (Surr)	84		31 - 120
2-Fluorophenol (Surr)	60		17 - 120
Nitrobenzene-d5 (Surr)	84		27 - 120
Phenol-d6 (Surr)	41		10 - 120
p-Terphenyl-d14 (Surr)	58		45 - 120

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

**Lab Sample ID: MB 570-669820/6**

**Matrix: Water**

**Analysis Batch: 669820**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
GRO (C6-C10)	<10		10	ug/L			12/14/25 12:53	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	82		38 - 134		12/14/25 12:53	1

**Lab Sample ID: LCS 570-669820/4**

**Matrix: Water**

**Analysis Batch: 669820**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec	RPD	RPD
		Result	Qualifier				Limits		Limit
Gasoline Range Organics (C4-C13)	400	352		ug/L		88	78 - 120		

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	81		38 - 134

**Lab Sample ID: LCSD 570-669820/5**

**Matrix: Water**

**Analysis Batch: 669820**

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

**Prep Type: Total/NA**

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	RPD
		Result	Qualifier				Limits		Limit
Gasoline Range Organics (C4-C13)	400	365		ug/L		91	78 - 120	4	10

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	84		38 - 134

# QC Sample Results

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

Job ID: 380-185639-1  
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

**Lab Sample ID: MRL 570-669820/3**  
**Matrix: Water**  
**Analysis Batch: 669820**

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (C4-C13)	10.0	12.3		ug/L		123	50 - 150
<b>Surrogate</b>		<b>MRL</b>	<b>MRL</b>				<b>Limits</b>
4-Bromofluorobenzene (Surr)		79					38 - 134

**Lab Sample ID: 380-185646-C-1 MS**  
**Matrix: Water**  
**Analysis Batch: 669820**

**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	392		ug/L		98	68 - 122
<b>Surrogate</b>		<b>MS</b>		<b>MS</b>					<b>Limits</b>
4-Bromofluorobenzene (Surr)		89							38 - 134

**Lab Sample ID: 380-185646-C-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 669820**

**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	386		ug/L		96	68 - 122	2	18
<b>Surrogate</b>		<b>MSD</b>		<b>MSD</b>					<b>Limits</b>		
4-Bromofluorobenzene (Surr)		92							38 - 134		

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

**Lab Sample ID: MB 570-664976/1-A**  
**Matrix: Water**  
**Analysis Batch: 668161**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 664976**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<25		25	ug/L		12/04/25 12:51	12/11/25 03:17	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		12/04/25 12:51	12/11/25 03:17	1
C8-C18	<25		25	ug/L		12/04/25 12:51	12/11/25 03:17	1
<b>Surrogate</b>		<b>MB</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
n-Octacosane (Surr)		84				12/04/25 12:51	12/11/25 03:17	1

**Lab Sample ID: LCS 570-664976/2-A**  
**Matrix: Water**  
**Analysis Batch: 668161**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 664976**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
C10-C28	1600	1580		ug/L		99	56 - 127

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-185639-1  
 SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

**Lab Sample ID: LCS 570-664976/2-A**  
**Matrix: Water**  
**Analysis Batch: 668161**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 664976**

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
<i>n-Octacosane (Surr)</i>	100		60 - 130

**Lab Sample ID: LCSD 570-664976/3-A**  
**Matrix: Water**  
**Analysis Batch: 668161**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 664976**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28	1600	1510		ug/L		94	56 - 127	5	23

  

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

**Lab Sample ID: MRL 570-664976/4-A**  
**Matrix: Water**  
**Analysis Batch: 668161**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 664976**

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
C10-C28	0.0200	<0.020		mg/L		84	50 - 150

  

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

# QC Association Summary

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

Job ID: 380-185639-1  
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

## GC/MS Semi VOA

### Prep Batch: 190100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-185639-1	AIEA GULCH WELLS PUMP 1	Total/NA	Water	525.2	
380-185639-3	AIEA GULCH WELLS PUMP 2	Total/NA	Water	525.2	
MB 380-190100/21-A	Method Blank	Total/NA	Water	525.2	
LCS 380-190100/23-A	Lab Control Sample	Total/NA	Water	525.2	
LCSD 380-190100/24-A	Lab Control Sample Dup	Total/NA	Water	525.2	
MRL 380-190100/22-A	Lab Control Sample	Total/NA	Water	525.2	
380-185621-H-1-A MS	Matrix Spike	Total/NA	Water	525.2	
380-185639-1 DU	AIEA GULCH WELLS PUMP 1	Total/NA	Water	525.2	

### Analysis Batch: 190375

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-185639-1	AIEA GULCH WELLS PUMP 1	Total/NA	Water	525.2	190100
380-185639-3	AIEA GULCH WELLS PUMP 2	Total/NA	Water	525.2	190100
MB 380-190100/21-A	Method Blank	Total/NA	Water	525.2	190100
LCS 380-190100/23-A	Lab Control Sample	Total/NA	Water	525.2	190100
LCSD 380-190100/24-A	Lab Control Sample Dup	Total/NA	Water	525.2	190100
MRL 380-190100/22-A	Lab Control Sample	Total/NA	Water	525.2	190100
380-185621-H-1-A MS	Matrix Spike	Total/NA	Water	525.2	190100
380-185639-1 DU	AIEA GULCH WELLS PUMP 1	Total/NA	Water	525.2	190100

### Prep Batch: 664964

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-185639-1	AIEA GULCH WELLS PUMP 1	Total/NA	Water	625.1	
380-185639-3	AIEA GULCH WELLS PUMP 2	Total/NA	Water	625.1	
MB 570-664964/1-A	Method Blank	Total/NA	Water	625.1	
LCS 570-664964/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 570-664964/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	
570-258138-C-1-A MS	Matrix Spike	Total/NA	Water	625.1	
570-258138-C-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	625.1	

### Analysis Batch: 667232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 570-664964/2-A	Lab Control Sample	Total/NA	Water	625.1 SIM	664964

### Analysis Batch: 667626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-664964/1-A	Method Blank	Total/NA	Water	625.1 SIM	664964
LCSD 570-664964/3-A	Lab Control Sample Dup	Total/NA	Water	625.1 SIM	664964

### Analysis Batch: 668191

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-185639-1	AIEA GULCH WELLS PUMP 1	Total/NA	Water	625.1	664964
380-185639-3	AIEA GULCH WELLS PUMP 2	Total/NA	Water	625.1	664964
MB 570-664964/1-A	Method Blank	Total/NA	Water	625.1	664964

### Analysis Batch: 668195

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-185639-1	AIEA GULCH WELLS PUMP 1	Total/NA	Water	625.1 SIM	664964
380-185639-3	AIEA GULCH WELLS PUMP 2	Total/NA	Water	625.1 SIM	664964
570-258138-C-1-A MS	Matrix Spike	Total/NA	Water	625.1 SIM	664964
570-258138-C-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	625.1 SIM	664964

# QC Association Summary

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

Job ID: 380-185639-1  
 SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

## GC VOA

### Analysis Batch: 669820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-185639-1	AIEA GULCH WELLS PUMP 1	Total/NA	Water	8015B GRO LL	
380-185639-2	TB: AIEA GULCH WELLS PUMP 1	Total/NA	Water	8015B GRO LL	
380-185639-3	AIEA GULCH WELLS PUMP 2	Total/NA	Water	8015B GRO LL	
380-185639-4	TB: AIEA GULCH WELLS PUMP 2	Total/NA	Water	8015B GRO LL	
MB 570-669820/6	Method Blank	Total/NA	Water	8015B GRO LL	
LCS 570-669820/4	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-669820/5	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	
MRL 570-669820/3	Lab Control Sample	Total/NA	Water	8015B GRO LL	
380-185646-C-1 MS	Matrix Spike	Total/NA	Water	8015B GRO LL	
380-185646-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8015B GRO LL	

## GC Semi VOA

### Prep Batch: 664976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-185639-1	AIEA GULCH WELLS PUMP 1	Total/NA	Water	3510C	
380-185639-3	AIEA GULCH WELLS PUMP 2	Total/NA	Water	3510C	
MB 570-664976/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-664976/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-664976/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-664976/4-A	Lab Control Sample	Total/NA	Water	3510C	

### Analysis Batch: 668161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-185639-1	AIEA GULCH WELLS PUMP 1	Total/NA	Water	8015B	664976
380-185639-3	AIEA GULCH WELLS PUMP 2	Total/NA	Water	8015B	664976
MB 570-664976/1-A	Method Blank	Total/NA	Water	8015B	664976
LCS 570-664976/2-A	Lab Control Sample	Total/NA	Water	8015B	664976
LCSD 570-664976/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	664976
MRL 570-664976/4-A	Lab Control Sample	Total/NA	Water	8015B	664976

## Lab Chronicle

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

Job ID: 380-185639-1  
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

Lab Sample ID: 380-185639-1

Date Collected: 12/01/25 11:27

Matrix: Water

Date Received: 12/03/25 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			190100	KRD3	EA POM	12/04/25 09:08
Total/NA	Analysis	525.2		1	190375	UPAC	EA POM	12/05/25 11:04
Total/NA	Prep	625.1			664964	VAW2	EET CAL 4	12/04/25 13:53
Total/NA	Analysis	625.1		1	668191	J7WE	EET CAL 4	12/11/25 09:21
Total/NA	Prep	625.1			664964	VAW2	EET CAL 4	12/04/25 13:53
Total/NA	Analysis	625.1 SIM		1	668195	PQS1	EET CAL 4	12/11/25 02:15
Total/NA	Analysis	8015B GRO LL		1	669820	YD9V	EET CAL 4	12/14/25 14:40
Total/NA	Prep	3510C			664976	EP2G	EET CAL 4	12/04/25 12:51
Total/NA	Analysis	8015B		1	668161	H6FE	EET CAL 4	12/11/25 05:48

### Client Sample ID: TB: AIEA GULCH WELLS PUMP 1

Lab Sample ID: 380-185639-2

Date Collected: 12/01/25 11:27

Matrix: Water

Date Received: 12/03/25 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	669820	YD9V	EET CAL 4	12/14/25 18:57

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

Lab Sample ID: 380-185639-3

Date Collected: 12/01/25 11:53

Matrix: Water

Date Received: 12/03/25 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			190100	KRD3	EA POM	12/04/25 09:08
Total/NA	Analysis	525.2		1	190375	UPAC	EA POM	12/05/25 13:45
Total/NA	Prep	625.1			664964	VAW2	EET CAL 4	12/04/25 13:53
Total/NA	Analysis	625.1		1	668191	J7WE	EET CAL 4	12/11/25 09:45
Total/NA	Prep	625.1			664964	VAW2	EET CAL 4	12/04/25 13:53
Total/NA	Analysis	625.1 SIM		1	668195	PQS1	EET CAL 4	12/11/25 02:59
Total/NA	Analysis	8015B GRO LL		1	669820	YD9V	EET CAL 4	12/14/25 15:02
Total/NA	Prep	3510C			664976	EP2G	EET CAL 4	12/04/25 12:51
Total/NA	Analysis	8015B		1	668161	H6FE	EET CAL 4	12/11/25 06:09

### Client Sample ID: TB: AIEA GULCH WELLS PUMP 2

Lab Sample ID: 380-185639-4

Date Collected: 12/01/25 11:53

Matrix: Water

Date Received: 12/03/25 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	669820	YD9V	EET CAL 4	12/14/25 19:19

**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: 380-185639-1  
 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	Water	1-Methylnaphthalene
525.2	525.2	Water	2,4'-DDD
525.2	525.2	Water	2,4'-DDE
525.2	525.2	Water	2,4'-DDT
525.2	525.2	Water	2,4-Dinitrotoluene
525.2	525.2	Water	2,6-Dinitrotoluene
525.2	525.2	Water	2-Methylnaphthalene
525.2	525.2	Water	4,4'-DDD
525.2	525.2	Water	4,4'-DDE
525.2	525.2	Water	4,4' DDT
525.2	525.2	Water	Acetochlor
525.2	525.2	Water	alpha-BHC
525.2	525.2	Water	alpha-Chlordane
525.2	525.2	Water	beta-BHC
525.2	525.2	Water	Chlorobenzilate
525.2	525.2	Water	Chloroneb
525.2	525.2	Water	Chlorothalonil (Draconil, Bravo)
525.2	525.2	Water	Chlorpyrifos
525.2	525.2	Water	delta-BHC
525.2	525.2	Water	Diclorvos (DDVP)
525.2	525.2	Water	Endosulfan I (Alpha)
525.2	525.2	Water	Endosulfan II (Beta)
525.2	525.2	Water	Endosulfan sulfate
525.2	525.2	Water	Endrin aldehyde
525.2	525.2	Water	EPTC
525.2	525.2	Water	gamma-Chlordane
525.2	525.2	Water	Isophorone
525.2	525.2	Water	Malathion
525.2	525.2	Water	Parathion
525.2	525.2	Water	Pendimethalin (Penoxaline)
525.2	525.2	Water	Terbacil
525.2	525.2	Water	Terbutylazine
525.2	525.2	Water	Total Permethrin (mixed isomers)
525.2	525.2	Water	trans-Nonachlor

## Laboratory: Eurofins Calscience

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

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	7296.01	11-30-26
A2LA	ISO/IEC 17025	7296.01	11-30-26
Alaska (UST)	State	25-005	03-02-26
Arizona	State	AZ0830	11-17-26
California	Los Angeles County Sanitation Districts	9257304	07-31-26
California	State	3082	07-31-26

# Accreditation/Certification Summary

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

Job ID: 380-185639-1  
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

## Laboratory: Eurofins Calscience (Continued)

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

Authority	Program	Identification Number	Expiration Date
Kansas	NELAP	E-10420	07-31-26
Nevada	State	CA00111	07-31-26
Oregon	NELAP	4175	02-02-26
USDA	US Federal Programs	525-23-159-97150	06-08-26
Utah	NELAP	CA00111	02-28-26
Washington	State	C916	10-11-26

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

# Method Summary

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

Job ID: 380-185639-1  
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: 380-185639-1  
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
380-185639-1	AIEA GULCH WELLS PUMP 1	Water	12/01/25 11:27	12/03/25 10:30	Hawaii
380-185639-2	TB: AIEA GULCH WELLS PUMP 1	Water	12/01/25 11:27	12/03/25 10:30	Hawaii
380-185639-3	AIEA GULCH WELLS PUMP 2	Water	12/01/25 11:53	12/03/25 10:30	Hawaii
380-185639-4	TB: AIEA GULCH WELLS PUMP 2	Water	12/01/25 11:53	12/03/25 10:30	Hawaii

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

**Chain of Custody Record**



Environment Testing

<b>Client Information</b>		Sampler bailey	Lab PM: Lopez, Mana	Carrier Tracking No(s): 380-185639 COC	COC No: 380-28005-2757 1						
Client Contact: Mr Kirk Iwamoto		Phone: +1 808 748 5840	E-Mail: Marria.Lopez@et.eurofins.com	State of Origin:	Page: Page 1 of 1						
Company City & County of Honolulu		PWSID:		Job #:							
Address: 630 South Beretania Street Chemistry Lab		Due Date Requested:		Analysis Requested							
City: Honolulu		TAT Requested (days):		Total Number of Containers							
State, Zip: HI, 96843		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No		Preservation Codes: R - NaThioSO4 RA - NaThioHCl Q - Na2SO3 QA - Na2SO3/HCl Y - Trizma I - NH4 Acetate							
Phone: 808-748-5840 (Tel)		PO #: C20525101 exp 05312023		Other							
Email: kiwamoto@hbws.org		WO #:		Special Instructions/Note:							
Project Name: RED-HILL/HBWS Sites Event Desc: RUSH Weekly Red Hill		Project #: 38001111									
Site: Hawaii		SSOWF:									
Sample Identification	Sample Date	Sample Time	Sample Type (C-comp, G-grab)	Matrix (Water, Specific, Organics, etc)	Field Filtered Sample (Yes or No)	Perform MRM/SD (Yes or No)	8015B_GRO_LL (MOD) GRO	8015B_DRO_LL_CS - HNL Ranges C10-C24/C24-C36/C8-C18	625.2_PREC - (MOD) 625plus Plus Tics	637.1_DW_PREC - 637.1 Full Lat	633 - All Analytes
Aiea Gulch Wells Pump 1	1-Dec-2025	1127	G	Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2	3	2	2	
Aiea Gulch Wells Pump 1 (Matrix Spike)				Water							
Aiea Gulch Wells Pump 1 (Matrix Spike Duplicate)				Water							
TB: Aiea Gulch Wells Pump 1	1-Dec-2025	1127		Water			2				
Aiea Gulch Wells Pump 2	1-Dec-2025	1153	G	Water			2	3	2	2	
Aiea Gulch Wells Pump 2 (Matrix Spike)				Water							
Aiea Gulch Wells Pump 2 (Matrix Spike Duplicate)				Water							
TB: Aiea Gulch Wells Pump 2	1-Dec-2025	1153		Water			2				
<b>Possible Hazard Identification</b>		<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		Special Instructions/QC Requirements.			
Empty Kit Relinquished by		Date:		Method of Shipment:		Received by:		Date/Time:			
Relinquished by		Date:		Relinquished by		Received by:		Date/Time:			
Relinquished by		Date:		Relinquished by		Received by:		Date/Time:			
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.		Cooler Temperature(s) °C and Other Remarks:		Company		Company			



**Eurofins Eaton Analytical Pomona**

941 Corporate Center Drive  
 Pomona, CA 91768-2642  
 Phone: 626-386-1100

**Chain of Custody Record**



eurofins

Loc: 380

**185639**

<b>Client Information (Sub Contract Lab)</b>		Sampler: N/A	Lab PM: Lopez, Maria	Carrier Tracking No(s): N/A	COC No: 380-282121.1	
Client Contact: Shipping/Receiving		Phone: N/A	E-Mail: Maria.Lopez@et.eurofinsus.com	State of Origin: Hawaii	Page: Page 1 of 1	
Company: Eurofins Environment Testing Southwest,			Accreditations Required (See note): State - Hawaii		Job #: 380-185639-1	
Address: 2841 Dow Avenue, Suite 100,		Due Date Requested: 12/16/2025	<b>Analysis Requested</b>			Preservation Codes:
City: Tustin		TAT Requested (days): N/A				
State, Zip: CA, 92780		PO #: N/A	Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 8019B_DRO_LL_CB3510C_LLHNL Ranges: C10- C24/C24-C36/C8-C18	8019B_GRO_LL/5030C(MOD) GRO	625.1_SIMI625_Prep(MOD) Extended PAH List	Total Number of Containers
Phone: 714-895-5494(Tel)		WO #: N/A				
Email: N/A		Project #: 38001111	Other: N/A			
Project Name: RED-HILL		SSOW#: N/A	<b>Special Instructions/Note:</b>			
Site: Honolulu BWS Sites						
<b>Sample Identification - Client ID (Lab ID)</b>	<b>Sample Date</b>	<b>Sample Time</b>	<b>Sample Type</b> (C=Comp, G=grab)	<b>Matrix</b> (W=water, S=solid, O=soils/sediment, ST=Sludge, A=Air)		
Preservation Code:						
AIEA GULCH WELLS PUMP 1 (380-185639-1)	12/1/25	11:27 Hawaiian	G	Water	X	X
TB: AIEA GULCH WELLS PUMP 1 (380-185639-2)	12/1/25	11:27 Hawaiian	G	Water		X
AIEA GULCH WELLS PUMP 2 (380-185639-3)	12/1/25	11:53 Hawaiian	G	Water	X	X
TB: AIEA GULCH WELLS PUMP 2 (380-185639-4)	12/1/25	11:53 Hawaiian	G	Water		X



380-185639 Chain of Custody

Note: Since laboratory accreditations are subject to change, Eurofins Eaton Analytical, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Eaton Analytical, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Eaton Analytical, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Eaton Analytical, LLC.

<b>Possible Hazard Identification</b>			<b>Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)</b>		
Unconfirmed			<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		
Deliverable Requested: I, II, III, IV, Other (specify)		Primary Deliverable Rank: 2	Special Instructions/QC Requirements:		
Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: <i>Maria Lopez</i>	Date/Time: 12-3-25 1545	Company: <i>ETAP</i>	Received by: <i>[Signature]</i>	Date/Time: 12-3-25 1545	Company: <i>WJP</i>
Relinquished by: <i>[Signature]</i>	Date/Time: 12-3-25 1705	Company: <i>WJP</i>	Received by: <i>[Signature]</i>	Date/Time: 12-3-25 1705	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1-0 1-5 IR-B			

## Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-185639-1

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

**Login Number: 185639**

**List Number: 1**

**Creator: Tran, Kristine**

**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	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
CIO4 headspace requirement met (>50% for CA, >30% for other states).	N/A	
Samples do not require splitting or compositing.	True	
Container provided by EEA	True	

## Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-185639-1

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

**Login Number: 185639**

**List Source: Eurofins Calscience**

**List Number: 2**

**List Creation: 12/03/25 06:31 PM**

**Creator: Khana, Piyush**

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	1.5
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	