

# ANALYTICAL REPORT

## PREPARED FOR

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City & County of Honolulu  
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Public Service Bldg. Room 310  
Honolulu, Hawaii 96843

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## JOB DESCRIPTION

RED-HILL  
Weekly: Aiea Gulch Wells Pump 1/Pump2  
RUSH Weekly Red Hill

## JOB NUMBER

380-168209-1

# 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  
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## Definitions/Glossary

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

Job ID: 380-168209-1  
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump2

### Qualifiers

#### GC/MS Semi VOA

| Qualifier | Qualifier Description                                                                                          |
|-----------|----------------------------------------------------------------------------------------------------------------|
| ^3+       | Reporting Limit Check Standard is outside acceptance limits, high biased                                       |
| F1        | MS and/or MSD recovery exceeds control limits.                                                                 |
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

#### GC/MS Semi VOA TICs

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

#### GC VOA

| Qualifier | Qualifier Description                                                                                          |
|-----------|----------------------------------------------------------------------------------------------------------------|
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

#### GC 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. |

### 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: 380-168209-1

**Job ID: 380-168209-1**

**Eurofins Eaton Analytical Pomona**

## **Job Narrative 380-168209-1**

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 8/27/2025 10:04 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.0°C and 1.4°C.

### **GC/MS Semi VOA**

Method 625.1\_SIM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 570-617934 and analytical batch 570-619556 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

### **Gasoline Range Organics**

8015B\_GRO\_LL for AIEA GULCH WELLS PUMP 1 (331-201-TP071) (380-168209-1), TB: AIEA GULCH WELLS PUMP 1 (331-201-TP071) (380-168209-2), AIEA GULCH WELLS PUMP 2 (331-202-TP072) (380-168209-3) and TB: AIEA GULCH WELLS PUMP 2 (331-202-TP072) (380-168209-4) collected on 08/25/25 are a resample for AIEA GULCH WELLS PUMP 1 (331-201-TP071) (380-167059-1), TB: AIEA GULCH WELLS PUMP 1 (331-201-TP071) (380-167059-2), AIEA GULCH WELLS PUMP 2 (331-202-TP072) (380-167059-3), TB: AIEA GULCH WELLS PUMP 2 (331-202-TP072) (380-167059-4) collected on 08/18/25. (XWB4)

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

### **Diesel Range Organics**

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

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## Detection Summary

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

Job ID: 380-168209-1  
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump2

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

**Lab Sample ID: 380-168209-1**

☐ No Detections.

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

**Lab Sample ID: 380-168209-2**

☐ No Detections.

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

**Lab Sample ID: 380-168209-3**

☐ No Detections.

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

**Lab Sample ID: 380-168209-4**

☐ No Detections.

# Client Sample Results

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

Job ID: 380-168209-1  
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump2

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

**Lab Sample ID: 380-168209-1**

**Date Collected: 08/25/25 11:32**

**Matrix: Drinking Water**

**Date Received: 08/27/25 10:04**

**PWSID Number: HI0000331**

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

| Analyte                          | Result  | Qualifier | RL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------------------------------|---------|-----------|--------|------|---|----------------|----------------|---------|
| 1-Methylnaphthalene              | <0.099  |           | 0.099  | ug/L |   | 08/27/25 14:18 | 08/28/25 15:38 | 1       |
| 2,4'-DDD                         | <0.099  |           | 0.099  | ug/L |   | 08/27/25 14:18 | 08/28/25 15:38 | 1       |
| 2,4'-DDE                         | <0.099  |           | 0.099  | ug/L |   | 08/27/25 14:18 | 08/28/25 15:38 | 1       |
| 2,4'-DDT                         | <0.099  |           | 0.099  | ug/L |   | 08/27/25 14:18 | 08/28/25 15:38 | 1       |
| 2,4-Dinitrotoluene               | <0.099  |           | 0.099  | ug/L |   | 08/27/25 14:18 | 08/28/25 15:38 | 1       |
| 2,6-Dinitrotoluene               | <0.099  |           | 0.099  | ug/L |   | 08/27/25 14:18 | 08/28/25 15:38 | 1       |
| 2-Methylnaphthalene              | <0.099  |           | 0.099  | ug/L |   | 08/27/25 14:18 | 08/28/25 15:38 | 1       |
| 4,4'-DDD                         | <0.099  |           | 0.099  | ug/L |   | 08/27/25 14:18 | 08/28/25 15:38 | 1       |
| 4,4'-DDE                         | <0.099  |           | 0.099  | ug/L |   | 08/27/25 14:18 | 08/28/25 15:38 | 1       |
| 4,4'-DDT                         | <0.099  | ^3+       | 0.099  | ug/L |   | 08/27/25 14:18 | 08/28/25 15:38 | 1       |
| Acenaphthene                     | <0.099  |           | 0.099  | ug/L |   | 08/27/25 14:18 | 08/28/25 15:38 | 1       |
| Acenaphthylene                   | <0.099  |           | 0.099  | ug/L |   | 08/27/25 14:18 | 08/28/25 15:38 | 1       |
| Acetochlor                       | <0.099  |           | 0.099  | ug/L |   | 08/27/25 14:18 | 08/28/25 15:38 | 1       |
| Alachlor                         | <0.049  |           | 0.049  | ug/L |   | 08/27/25 14:18 | 08/28/25 15:38 | 1       |
| alpha-BHC                        | <0.099  |           | 0.099  | ug/L |   | 08/27/25 14:18 | 08/28/25 15:38 | 1       |
| alpha-Chlordane                  | <0.049  |           | 0.049  | ug/L |   | 08/27/25 14:18 | 08/28/25 15:38 | 1       |
| Anthracene                       | <0.020  |           | 0.020  | ug/L |   | 08/27/25 14:18 | 08/28/25 15:38 | 1       |
| Atrazine                         | <0.049  |           | 0.049  | ug/L |   | 08/27/25 14:18 | 08/28/25 15:38 | 1       |
| Benz(a)anthracene                | <0.049  |           | 0.049  | ug/L |   | 08/27/25 14:18 | 08/28/25 15:38 | 1       |
| Benzo[a]pyrene                   | <0.020  | ^3+       | 0.020  | ug/L |   | 08/27/25 14:18 | 08/28/25 15:38 | 1       |
| Benzo[b]fluoranthene             | <0.020  | ^3+       | 0.020  | ug/L |   | 08/27/25 14:18 | 08/28/25 15:38 | 1       |
| Benzo[g,h,i]perylene             | <0.049  |           | 0.049  | ug/L |   | 08/27/25 14:18 | 08/28/25 15:38 | 1       |
| Benzo[k]fluoranthene             | <0.020  | ^3+       | 0.020  | ug/L |   | 08/27/25 14:18 | 08/28/25 15:38 | 1       |
| beta-BHC                         | <0.099  |           | 0.099  | ug/L |   | 08/27/25 14:18 | 08/28/25 15:38 | 1       |
| Bis(2-ethylhexyl) phthalate      | <0.59   |           | 0.59   | ug/L |   | 08/27/25 14:18 | 08/28/25 15:38 | 1       |
| Bromacil                         | <0.099  | ^3+       | 0.099  | ug/L |   | 08/27/25 14:18 | 08/28/25 15:38 | 1       |
| Butachlor                        | <0.049  |           | 0.049  | ug/L |   | 08/27/25 14:18 | 08/28/25 15:38 | 1       |
| Butylbenzylphthalate             | <0.49   | ^3+       | 0.49   | ug/L |   | 08/27/25 14:18 | 08/28/25 15:38 | 1       |
| Chlorobenzilate                  | <0.099  |           | 0.099  | ug/L |   | 08/27/25 14:18 | 08/28/25 15:38 | 1       |
| Chloroneb                        | <0.099  |           | 0.099  | ug/L |   | 08/27/25 14:18 | 08/28/25 15:38 | 1       |
| Chlorothalonil (Draconil, Bravo) | <0.099  |           | 0.099  | ug/L |   | 08/27/25 14:18 | 08/28/25 15:38 | 1       |
| Chlorpyrifos                     | <0.049  |           | 0.049  | ug/L |   | 08/27/25 14:18 | 08/28/25 15:38 | 1       |
| Chrysene                         | <0.020  |           | 0.020  | ug/L |   | 08/27/25 14:18 | 08/28/25 15:38 | 1       |
| delta-BHC                        | <0.099  |           | 0.099  | ug/L |   | 08/27/25 14:18 | 08/28/25 15:38 | 1       |
| Di(2-ethylhexyl)adipate          | <0.59   |           | 0.59   | ug/L |   | 08/27/25 14:18 | 08/28/25 15:38 | 1       |
| Dibenz(a,h)anthracene            | <0.049  |           | 0.049  | ug/L |   | 08/27/25 14:18 | 08/28/25 15:38 | 1       |
| Diclorvos (DDVP)                 | <0.049  |           | 0.049  | ug/L |   | 08/27/25 14:18 | 08/28/25 15:38 | 1       |
| Dieldrin                         | <0.0099 | ^3+       | 0.0099 | ug/L |   | 08/27/25 14:18 | 08/28/25 15:38 | 1       |
| Diethylphthalate                 | <0.49   |           | 0.49   | ug/L |   | 08/27/25 14:18 | 08/28/25 15:38 | 1       |
| Dimethylphthalate                | <0.49   |           | 0.49   | ug/L |   | 08/27/25 14:18 | 08/28/25 15:38 | 1       |
| Di-n-butyl phthalate             | <0.99   |           | 0.99   | ug/L |   | 08/27/25 14:18 | 08/28/25 15:38 | 1       |
| Di-n-octyl phthalate             | <0.099  |           | 0.099  | ug/L |   | 08/27/25 14:18 | 08/28/25 15:38 | 1       |
| Endosulfan I (Alpha)             | <0.099  |           | 0.099  | ug/L |   | 08/27/25 14:18 | 08/28/25 15:38 | 1       |
| Endosulfan II (Beta)             | <0.099  |           | 0.099  | ug/L |   | 08/27/25 14:18 | 08/28/25 15:38 | 1       |
| Endosulfan sulfate               | <0.099  | ^3+       | 0.099  | ug/L |   | 08/27/25 14:18 | 08/28/25 15:38 | 1       |
| Endrin                           | <0.0099 |           | 0.0099 | ug/L |   | 08/27/25 14:18 | 08/28/25 15:38 | 1       |
| Endrin aldehyde                  | <0.099  |           | 0.099  | ug/L |   | 08/27/25 14:18 | 08/28/25 15:38 | 1       |
| EPTC                             | <0.099  |           | 0.099  | ug/L |   | 08/27/25 14:18 | 08/28/25 15:38 | 1       |

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# Client Sample Results

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

Job ID: 380-168209-1  
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump2

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

**Lab Sample ID: 380-168209-1**

**Date Collected: 08/25/25 11:32**

**Matrix: Drinking Water**

**Date Received: 08/27/25 10:04**

**PWSID Number: HI0000331**

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

| Analyte                          | Result  | Qualifier | RL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------------------------------|---------|-----------|--------|------|---|----------------|----------------|---------|
| Fluoranthene                     | <0.099  |           | 0.099  | ug/L |   | 08/27/25 14:18 | 08/28/25 15:38 | 1       |
| Fluorene                         | <0.049  |           | 0.049  | ug/L |   | 08/27/25 14:18 | 08/28/25 15:38 | 1       |
| gamma-Chlordane                  | <0.049  |           | 0.049  | ug/L |   | 08/27/25 14:18 | 08/28/25 15:38 | 1       |
| Heptachlor                       | <0.0099 |           | 0.0099 | ug/L |   | 08/27/25 14:18 | 08/28/25 15:38 | 1       |
| Heptachlor epoxide (isomer B)    | <0.0099 | ^3+       | 0.0099 | ug/L |   | 08/27/25 14:18 | 08/28/25 15:38 | 1       |
| Hexachlorobenzene                | <0.049  |           | 0.049  | ug/L |   | 08/27/25 14:18 | 08/28/25 15:38 | 1       |
| Hexachlorocyclopentadiene        | <0.049  |           | 0.049  | ug/L |   | 08/27/25 14:18 | 08/28/25 15:38 | 1       |
| Indeno[1,2,3-cd]pyrene           | <0.049  |           | 0.049  | ug/L |   | 08/27/25 14:18 | 08/28/25 15:38 | 1       |
| Isophorone                       | <0.099  |           | 0.099  | ug/L |   | 08/27/25 14:18 | 08/28/25 15:38 | 1       |
| Lindane                          | <0.0099 |           | 0.0099 | ug/L |   | 08/27/25 14:18 | 08/28/25 15:38 | 1       |
| Malathion                        | <0.099  |           | 0.099  | ug/L |   | 08/27/25 14:18 | 08/28/25 15:38 | 1       |
| Methoxychlor                     | <0.049  | ^3+       | 0.049  | ug/L |   | 08/27/25 14:18 | 08/28/25 15:38 | 1       |
| Metolachlor                      | <0.049  |           | 0.049  | ug/L |   | 08/27/25 14:18 | 08/28/25 15:38 | 1       |
| Molinate                         | <0.099  |           | 0.099  | ug/L |   | 08/27/25 14:18 | 08/28/25 15:38 | 1       |
| Naphthalene                      | <0.099  |           | 0.099  | ug/L |   | 08/27/25 14:18 | 08/28/25 15:38 | 1       |
| Parathion                        | <0.099  |           | 0.099  | ug/L |   | 08/27/25 14:18 | 08/28/25 15:38 | 1       |
| Pendimethalin (Penoxaline)       | <0.099  |           | 0.099  | ug/L |   | 08/27/25 14:18 | 08/28/25 15:38 | 1       |
| Phenanthrene                     | <0.040  |           | 0.040  | ug/L |   | 08/27/25 14:18 | 08/28/25 15:38 | 1       |
| Propachlor                       | <0.049  |           | 0.049  | ug/L |   | 08/27/25 14:18 | 08/28/25 15:38 | 1       |
| Pyrene                           | <0.049  |           | 0.049  | ug/L |   | 08/27/25 14:18 | 08/28/25 15:38 | 1       |
| Simazine                         | <0.049  |           | 0.049  | ug/L |   | 08/27/25 14:18 | 08/28/25 15:38 | 1       |
| Terbacil                         | <0.099  |           | 0.099  | ug/L |   | 08/27/25 14:18 | 08/28/25 15:38 | 1       |
| Terbutylazine                    | <0.099  |           | 0.099  | ug/L |   | 08/27/25 14:18 | 08/28/25 15:38 | 1       |
| Thiobencarb                      | <0.099  |           | 0.099  | ug/L |   | 08/27/25 14:18 | 08/28/25 15:38 | 1       |
| Total Permethrin (mixed isomers) | <0.20   |           | 0.20   | ug/L |   | 08/27/25 14:18 | 08/28/25 15:38 | 1       |
| trans-Nonachlor                  | <0.049  |           | 0.049  | ug/L |   | 08/27/25 14:18 | 08/28/25 15:38 | 1       |
| Trifluralin                      | <0.099  |           | 0.099  | ug/L |   | 08/27/25 14:18 | 08/28/25 15:38 | 1       |

| Tentatively Identified Compound | Est. Result | Qualifier | Unit | D | RT | CAS No. | Prepared       | Analyzed       | Dil Fac |
|---------------------------------|-------------|-----------|------|---|----|---------|----------------|----------------|---------|
| Tentatively Identified Compound | None        |           | ug/L |   |    | N/A     | 08/27/25 14:18 | 08/28/25 15:38 | 1       |

| Surrogate          | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|--------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2-Nitro-m-xylene   | 97        |           | 70 - 130 | 08/27/25 14:18 | 08/28/25 15:38 | 1       |
| Perylene-d12       | 89        |           | 70 - 130 | 08/27/25 14:18 | 08/28/25 15:38 | 1       |
| Triphenylphosphate | 106       |           | 70 - 130 | 08/27/25 14:18 | 08/28/25 15:38 | 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 |   | 08/28/25 08:30 | 09/02/25 11:56 | 1       |
| 2-Methylnaphthalene  | <0.19  |           | 0.19 | ug/L |   | 08/28/25 08:30 | 09/02/25 11:56 | 1       |
| Acenaphthene         | <0.19  |           | 0.19 | ug/L |   | 08/28/25 08:30 | 09/02/25 11:56 | 1       |
| Acenaphthylene       | <0.19  |           | 0.19 | ug/L |   | 08/28/25 08:30 | 09/02/25 11:56 | 1       |
| Anthracene           | <0.19  |           | 0.19 | ug/L |   | 08/28/25 08:30 | 09/02/25 11:56 | 1       |
| Benzo[a]anthracene   | <0.19  |           | 0.19 | ug/L |   | 08/28/25 08:30 | 09/02/25 11:56 | 1       |
| Benzo[a]pyrene       | <0.19  |           | 0.19 | ug/L |   | 08/28/25 08:30 | 09/02/25 11:56 | 1       |
| Benzo[b]fluoranthene | <0.19  |           | 0.19 | ug/L |   | 08/28/25 08:30 | 09/02/25 11:56 | 1       |
| Benzo[g,h,i]perylene | <0.19  |           | 0.19 | ug/L |   | 08/28/25 08:30 | 09/02/25 11:56 | 1       |
| Benzo[k]fluoranthene | <0.19  |           | 0.19 | ug/L |   | 08/28/25 08:30 | 09/02/25 11:56 | 1       |
| Chrysene             | <0.19  |           | 0.19 | ug/L |   | 08/28/25 08:30 | 09/02/25 11:56 | 1       |

Eurofins Eaton Analytical Pomona

# Client Sample Results

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

Job ID: 380-168209-1  
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump2

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

**Lab Sample ID: 380-168209-1**

**Date Collected: 08/25/25 11:32**

**Matrix: Drinking Water**

**Date Received: 08/27/25 10:04**

**PWSID Number: HI0000331**

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

| Analyte                | Result | Qualifier | RL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|--------|-----------|------|------|---|----------------|----------------|---------|
| Dibenz(a,h)anthracene  | <0.19  |           | 0.19 | ug/L |   | 08/28/25 08:30 | 09/02/25 11:56 | 1       |
| Fluoranthene           | <0.19  |           | 0.19 | ug/L |   | 08/28/25 08:30 | 09/02/25 11:56 | 1       |
| Fluorene               | <0.19  |           | 0.19 | ug/L |   | 08/28/25 08:30 | 09/02/25 11:56 | 1       |
| Indeno[1,2,3-cd]pyrene | <0.19  |           | 0.19 | ug/L |   | 08/28/25 08:30 | 09/02/25 11:56 | 1       |
| Naphthalene            | <0.19  |           | 0.19 | ug/L |   | 08/28/25 08:30 | 09/02/25 11:56 | 1       |
| Phenanthrene           | <0.19  |           | 0.19 | ug/L |   | 08/28/25 08:30 | 09/02/25 11:56 | 1       |
| Pyrene                 | <0.19  |           | 0.19 | ug/L |   | 08/28/25 08:30 | 09/02/25 11:56 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2,4,6-Tribromophenol (Surr) | 78        |           | 28 - 127 | 08/28/25 08:30 | 09/02/25 11:56 | 1       |
| 2-Fluorobiphenyl (Surr)     | 74        |           | 31 - 120 | 08/28/25 08:30 | 09/02/25 11:56 | 1       |
| 2-Fluorophenol (Surr)       | 53        |           | 17 - 120 | 08/28/25 08:30 | 09/02/25 11:56 | 1       |
| Nitrobenzene-d5 (Surr)      | 75        |           | 27 - 120 | 08/28/25 08:30 | 09/02/25 11:56 | 1       |
| Phenol-d6 (Surr)            | 33        |           | 10 - 120 | 08/28/25 08:30 | 09/02/25 11:56 | 1       |
| p-Terphenyl-d14 (Surr)      | 84        |           | 45 - 120 | 08/28/25 08:30 | 09/02/25 11:56 | 1       |

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

| Tentatively Identified Compound | Est. Result | Qualifier | Unit | D | RT | CAS No. | Prepared       | Analyzed       | Dil Fac |
|---------------------------------|-------------|-----------|------|---|----|---------|----------------|----------------|---------|
| Tentatively Identified Compound | None        |           | ug/L |   |    | N/A     | 08/28/25 08:30 | 09/10/25 13:21 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2,4,6-Tribromophenol (Surr) | 77        |           | 33 - 139 | 08/28/25 08:30 | 09/10/25 13:21 | 1       |
| 2-Fluorobiphenyl (Surr)     | 80        |           | 33 - 126 | 08/28/25 08:30 | 09/10/25 13:21 | 1       |
| 2-Fluorophenol (Surr)       | 55        |           | 12 - 120 | 08/28/25 08:30 | 09/10/25 13:21 | 1       |
| Nitrobenzene-d5 (Surr)      | 85        |           | 36 - 120 | 08/28/25 08:30 | 09/10/25 13:21 | 1       |
| Phenol-d6 (Surr)            | 32        |           | 10 - 120 | 08/28/25 08:30 | 09/10/25 13:21 | 1       |
| p-Terphenyl-d14 (Surr)      | 83        |           | 47 - 131 | 08/28/25 08:30 | 09/10/25 13:21 | 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 |   |          | 09/02/25 22:00 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 82        |           | 38 - 134 |          | 09/02/25 22:00 | 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 |   | 08/29/25 09:41 | 09/07/25 07:39 | 1       |
| Motor Oil Range Organics [C24-C36] | <26    |           | 26 | ug/L |   | 08/29/25 09:41 | 09/07/25 07:39 | 1       |
| C8-C18                             | <26    |           | 26 | ug/L |   | 08/29/25 09:41 | 09/07/25 07:39 | 1       |

| Surrogate           | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|-----------|----------|----------------|----------------|---------|
| n-Octacosane (Surr) | 116       |           | 60 - 130 | 08/29/25 09:41 | 09/07/25 07:39 | 1       |

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# Client Sample Results

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

Job ID: 380-168209-1  
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump2

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

**Lab Sample ID: 380-168209-2**

**Date Collected: 08/25/25 11:32**

**Matrix: Drinking Water**

**Date Received: 08/27/25 10:04**

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

| Analyte                     | Result    | Qualifier | RL       | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|------|---|----------|----------------|---------|
| GRO (C6-C10)                | <10       |           | 10       | ug/L |   |          | 09/02/25 22:48 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |      |   | Prepared | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 78        |           | 38 - 134 |      |   |          | 09/02/25 22:48 | 1       |

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

**Lab Sample ID: 380-168209-3**

**Date Collected: 08/25/25 11:50**

**Matrix: Water**

**Date Received: 08/27/25 10:04**

**PWSID Number: HI0000331**

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

| Analyte                          | Result | Qualifier | RL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------------------------------|--------|-----------|-------|------|---|----------------|----------------|---------|
| 1-Methylnaphthalene              | <0.098 |           | 0.098 | ug/L |   | 08/27/25 14:18 | 08/28/25 16:18 | 1       |
| 2,4'-DDD                         | <0.098 |           | 0.098 | ug/L |   | 08/27/25 14:18 | 08/28/25 16:18 | 1       |
| 2,4'-DDE                         | <0.098 |           | 0.098 | ug/L |   | 08/27/25 14:18 | 08/28/25 16:18 | 1       |
| 2,4'-DDT                         | <0.098 |           | 0.098 | ug/L |   | 08/27/25 14:18 | 08/28/25 16:18 | 1       |
| 2,4-Dinitrotoluene               | <0.098 |           | 0.098 | ug/L |   | 08/27/25 14:18 | 08/28/25 16:18 | 1       |
| 2,6-Dinitrotoluene               | <0.098 |           | 0.098 | ug/L |   | 08/27/25 14:18 | 08/28/25 16:18 | 1       |
| 2-Methylnaphthalene              | <0.098 |           | 0.098 | ug/L |   | 08/27/25 14:18 | 08/28/25 16:18 | 1       |
| 4,4'-DDD                         | <0.098 |           | 0.098 | ug/L |   | 08/27/25 14:18 | 08/28/25 16:18 | 1       |
| 4,4'-DDE                         | <0.098 |           | 0.098 | ug/L |   | 08/27/25 14:18 | 08/28/25 16:18 | 1       |
| 4,4'-DDT                         | <0.098 | ^3+       | 0.098 | ug/L |   | 08/27/25 14:18 | 08/28/25 16:18 | 1       |
| Acenaphthene                     | <0.098 |           | 0.098 | ug/L |   | 08/27/25 14:18 | 08/28/25 16:18 | 1       |
| Acenaphthylene                   | <0.098 |           | 0.098 | ug/L |   | 08/27/25 14:18 | 08/28/25 16:18 | 1       |
| Acetochlor                       | <0.098 |           | 0.098 | ug/L |   | 08/27/25 14:18 | 08/28/25 16:18 | 1       |
| Alachlor                         | <0.049 |           | 0.049 | ug/L |   | 08/27/25 14:18 | 08/28/25 16:18 | 1       |
| alpha-BHC                        | <0.098 |           | 0.098 | ug/L |   | 08/27/25 14:18 | 08/28/25 16:18 | 1       |
| alpha-Chlordane                  | <0.049 |           | 0.049 | ug/L |   | 08/27/25 14:18 | 08/28/25 16:18 | 1       |
| Anthracene                       | <0.020 |           | 0.020 | ug/L |   | 08/27/25 14:18 | 08/28/25 16:18 | 1       |
| Atrazine                         | <0.049 |           | 0.049 | ug/L |   | 08/27/25 14:18 | 08/28/25 16:18 | 1       |
| Benz(a)anthracene                | <0.049 |           | 0.049 | ug/L |   | 08/27/25 14:18 | 08/28/25 16:18 | 1       |
| Benzo[a]pyrene                   | <0.020 | ^3+       | 0.020 | ug/L |   | 08/27/25 14:18 | 08/28/25 16:18 | 1       |
| Benzo[b]fluoranthene             | <0.020 | ^3+       | 0.020 | ug/L |   | 08/27/25 14:18 | 08/28/25 16:18 | 1       |
| Benzo[g,h,i]perylene             | <0.049 |           | 0.049 | ug/L |   | 08/27/25 14:18 | 08/28/25 16:18 | 1       |
| Benzo[k]fluoranthene             | <0.020 | ^3+       | 0.020 | ug/L |   | 08/27/25 14:18 | 08/28/25 16:18 | 1       |
| beta-BHC                         | <0.098 |           | 0.098 | ug/L |   | 08/27/25 14:18 | 08/28/25 16:18 | 1       |
| Bis(2-ethylhexyl) phthalate      | <0.59  |           | 0.59  | ug/L |   | 08/27/25 14:18 | 08/28/25 16:18 | 1       |
| Bromacil                         | <0.098 | ^3+       | 0.098 | ug/L |   | 08/27/25 14:18 | 08/28/25 16:18 | 1       |
| Butachlor                        | <0.049 |           | 0.049 | ug/L |   | 08/27/25 14:18 | 08/28/25 16:18 | 1       |
| Butylbenzylphthalate             | <0.49  | ^3+       | 0.49  | ug/L |   | 08/27/25 14:18 | 08/28/25 16:18 | 1       |
| Chlorobenzilate                  | <0.098 |           | 0.098 | ug/L |   | 08/27/25 14:18 | 08/28/25 16:18 | 1       |
| Chloroneb                        | <0.098 |           | 0.098 | ug/L |   | 08/27/25 14:18 | 08/28/25 16:18 | 1       |
| Chlorothalonil (Draconil, Bravo) | <0.098 |           | 0.098 | ug/L |   | 08/27/25 14:18 | 08/28/25 16:18 | 1       |
| Chlorpyrifos                     | <0.049 |           | 0.049 | ug/L |   | 08/27/25 14:18 | 08/28/25 16:18 | 1       |
| Chrysene                         | <0.020 |           | 0.020 | ug/L |   | 08/27/25 14:18 | 08/28/25 16:18 | 1       |
| delta-BHC                        | <0.098 |           | 0.098 | ug/L |   | 08/27/25 14:18 | 08/28/25 16:18 | 1       |
| Di(2-ethylhexyl)adipate          | <0.59  |           | 0.59  | ug/L |   | 08/27/25 14:18 | 08/28/25 16:18 | 1       |
| Dibenz(a,h)anthracene            | <0.049 |           | 0.049 | ug/L |   | 08/27/25 14:18 | 08/28/25 16:18 | 1       |
| Diclorvos (DDVP)                 | <0.049 |           | 0.049 | ug/L |   | 08/27/25 14:18 | 08/28/25 16:18 | 1       |

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# Client Sample Results

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

Job ID: 380-168209-1  
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump2

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

**Lab Sample ID: 380-168209-3**

Date Collected: 08/25/25 11:50

Matrix: Water

Date Received: 08/27/25 10:04

PWSID Number: HI0000331

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

| Analyte                          | Result  | Qualifier | RL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------------------------------|---------|-----------|--------|------|---|----------------|----------------|---------|
| Dieldrin                         | <0.0098 | ^3+       | 0.0098 | ug/L |   | 08/27/25 14:18 | 08/28/25 16:18 | 1       |
| Diethylphthalate                 | <0.49   |           | 0.49   | ug/L |   | 08/27/25 14:18 | 08/28/25 16:18 | 1       |
| Dimethylphthalate                | <0.49   |           | 0.49   | ug/L |   | 08/27/25 14:18 | 08/28/25 16:18 | 1       |
| Di-n-butyl phthalate             | <0.98   |           | 0.98   | ug/L |   | 08/27/25 14:18 | 08/28/25 16:18 | 1       |
| Di-n-octyl phthalate             | <0.098  |           | 0.098  | ug/L |   | 08/27/25 14:18 | 08/28/25 16:18 | 1       |
| Endosulfan I (Alpha)             | <0.098  |           | 0.098  | ug/L |   | 08/27/25 14:18 | 08/28/25 16:18 | 1       |
| Endosulfan II (Beta)             | <0.098  |           | 0.098  | ug/L |   | 08/27/25 14:18 | 08/28/25 16:18 | 1       |
| Endosulfan sulfate               | <0.098  | ^3+       | 0.098  | ug/L |   | 08/27/25 14:18 | 08/28/25 16:18 | 1       |
| Endrin                           | <0.0098 |           | 0.0098 | ug/L |   | 08/27/25 14:18 | 08/28/25 16:18 | 1       |
| Endrin aldehyde                  | <0.098  |           | 0.098  | ug/L |   | 08/27/25 14:18 | 08/28/25 16:18 | 1       |
| EPTC                             | <0.098  |           | 0.098  | ug/L |   | 08/27/25 14:18 | 08/28/25 16:18 | 1       |
| Fluoranthene                     | <0.098  |           | 0.098  | ug/L |   | 08/27/25 14:18 | 08/28/25 16:18 | 1       |
| Fluorene                         | <0.049  |           | 0.049  | ug/L |   | 08/27/25 14:18 | 08/28/25 16:18 | 1       |
| gamma-Chlordane                  | <0.049  |           | 0.049  | ug/L |   | 08/27/25 14:18 | 08/28/25 16:18 | 1       |
| Heptachlor                       | <0.0098 |           | 0.0098 | ug/L |   | 08/27/25 14:18 | 08/28/25 16:18 | 1       |
| Heptachlor epoxide (isomer B)    | <0.0098 | ^3+       | 0.0098 | ug/L |   | 08/27/25 14:18 | 08/28/25 16:18 | 1       |
| Hexachlorobenzene                | <0.049  |           | 0.049  | ug/L |   | 08/27/25 14:18 | 08/28/25 16:18 | 1       |
| Hexachlorocyclopentadiene        | <0.049  |           | 0.049  | ug/L |   | 08/27/25 14:18 | 08/28/25 16:18 | 1       |
| Indeno[1,2,3-cd]pyrene           | <0.049  |           | 0.049  | ug/L |   | 08/27/25 14:18 | 08/28/25 16:18 | 1       |
| Isophorone                       | <0.098  |           | 0.098  | ug/L |   | 08/27/25 14:18 | 08/28/25 16:18 | 1       |
| Lindane                          | <0.0098 |           | 0.0098 | ug/L |   | 08/27/25 14:18 | 08/28/25 16:18 | 1       |
| Malathion                        | <0.098  |           | 0.098  | ug/L |   | 08/27/25 14:18 | 08/28/25 16:18 | 1       |
| Methoxychlor                     | <0.049  | ^3+       | 0.049  | ug/L |   | 08/27/25 14:18 | 08/28/25 16:18 | 1       |
| Metolachlor                      | <0.049  |           | 0.049  | ug/L |   | 08/27/25 14:18 | 08/28/25 16:18 | 1       |
| Molinate                         | <0.098  |           | 0.098  | ug/L |   | 08/27/25 14:18 | 08/28/25 16:18 | 1       |
| Naphthalene                      | <0.098  |           | 0.098  | ug/L |   | 08/27/25 14:18 | 08/28/25 16:18 | 1       |
| Parathion                        | <0.098  |           | 0.098  | ug/L |   | 08/27/25 14:18 | 08/28/25 16:18 | 1       |
| Pendimethalin (Penoxaline)       | <0.098  |           | 0.098  | ug/L |   | 08/27/25 14:18 | 08/28/25 16:18 | 1       |
| Phenanthrene                     | <0.039  |           | 0.039  | ug/L |   | 08/27/25 14:18 | 08/28/25 16:18 | 1       |
| Propachlor                       | <0.049  |           | 0.049  | ug/L |   | 08/27/25 14:18 | 08/28/25 16:18 | 1       |
| Pyrene                           | <0.049  |           | 0.049  | ug/L |   | 08/27/25 14:18 | 08/28/25 16:18 | 1       |
| Simazine                         | <0.049  |           | 0.049  | ug/L |   | 08/27/25 14:18 | 08/28/25 16:18 | 1       |
| Terbacil                         | <0.098  |           | 0.098  | ug/L |   | 08/27/25 14:18 | 08/28/25 16:18 | 1       |
| Terbutylazine                    | <0.098  |           | 0.098  | ug/L |   | 08/27/25 14:18 | 08/28/25 16:18 | 1       |
| Thiobencarb                      | <0.098  |           | 0.098  | ug/L |   | 08/27/25 14:18 | 08/28/25 16:18 | 1       |
| Total Permethrin (mixed isomers) | <0.20   |           | 0.20   | ug/L |   | 08/27/25 14:18 | 08/28/25 16:18 | 1       |
| trans-Nonachlor                  | <0.049  |           | 0.049  | ug/L |   | 08/27/25 14:18 | 08/28/25 16:18 | 1       |
| Trifluralin                      | <0.098  |           | 0.098  | ug/L |   | 08/27/25 14:18 | 08/28/25 16:18 | 1       |

| Tentatively Identified Compound | Est. Result | Qualifier | Unit | D | RT | CAS No. | Prepared       | Analyzed       | Dil Fac |
|---------------------------------|-------------|-----------|------|---|----|---------|----------------|----------------|---------|
| Tentatively Identified Compound | None        |           | ug/L |   |    | N/A     | 08/27/25 14:18 | 08/28/25 16:18 | 1       |

| Surrogate          | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|--------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2-Nitro-m-xylene   | 96        |           | 70 - 130 | 08/27/25 14:18 | 08/28/25 16:18 | 1       |
| Perylene-d12       | 83        |           | 70 - 130 | 08/27/25 14:18 | 08/28/25 16:18 | 1       |
| Triphenylphosphate | 115       |           | 70 - 130 | 08/27/25 14:18 | 08/28/25 16:18 | 1       |

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# Client Sample Results

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

Job ID: 380-168209-1  
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump2

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

**Lab Sample ID: 380-168209-3**

Date Collected: 08/25/25 11:50

Matrix: Water

Date Received: 08/27/25 10:04

PWSID Number: HI0000331

## 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 |   | 08/28/25 08:30 | 09/02/25 12:18 | 1       |
| 2-Methylnaphthalene    | <0.19  |           | 0.19 | ug/L |   | 08/28/25 08:30 | 09/02/25 12:18 | 1       |
| Acenaphthene           | <0.19  |           | 0.19 | ug/L |   | 08/28/25 08:30 | 09/02/25 12:18 | 1       |
| Acenaphthylene         | <0.19  |           | 0.19 | ug/L |   | 08/28/25 08:30 | 09/02/25 12:18 | 1       |
| Anthracene             | <0.19  |           | 0.19 | ug/L |   | 08/28/25 08:30 | 09/02/25 12:18 | 1       |
| Benzo[a]anthracene     | <0.19  |           | 0.19 | ug/L |   | 08/28/25 08:30 | 09/02/25 12:18 | 1       |
| Benzo[a]pyrene         | <0.19  |           | 0.19 | ug/L |   | 08/28/25 08:30 | 09/02/25 12:18 | 1       |
| Benzo[b]fluoranthene   | <0.19  |           | 0.19 | ug/L |   | 08/28/25 08:30 | 09/02/25 12:18 | 1       |
| Benzo[g,h,i]perylene   | <0.19  |           | 0.19 | ug/L |   | 08/28/25 08:30 | 09/02/25 12:18 | 1       |
| Benzo[k]fluoranthene   | <0.19  |           | 0.19 | ug/L |   | 08/28/25 08:30 | 09/02/25 12:18 | 1       |
| Chrysene               | <0.19  |           | 0.19 | ug/L |   | 08/28/25 08:30 | 09/02/25 12:18 | 1       |
| Dibenz(a,h)anthracene  | <0.19  |           | 0.19 | ug/L |   | 08/28/25 08:30 | 09/02/25 12:18 | 1       |
| Fluoranthene           | <0.19  |           | 0.19 | ug/L |   | 08/28/25 08:30 | 09/02/25 12:18 | 1       |
| Fluorene               | <0.19  |           | 0.19 | ug/L |   | 08/28/25 08:30 | 09/02/25 12:18 | 1       |
| Indeno[1,2,3-cd]pyrene | <0.19  |           | 0.19 | ug/L |   | 08/28/25 08:30 | 09/02/25 12:18 | 1       |
| Naphthalene            | <0.19  |           | 0.19 | ug/L |   | 08/28/25 08:30 | 09/02/25 12:18 | 1       |
| Phenanthrene           | <0.19  |           | 0.19 | ug/L |   | 08/28/25 08:30 | 09/02/25 12:18 | 1       |
| Pyrene                 | <0.19  |           | 0.19 | ug/L |   | 08/28/25 08:30 | 09/02/25 12:18 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2,4,6-Tribromophenol (Surr) | 81        |           | 28 - 127 | 08/28/25 08:30 | 09/02/25 12:18 | 1       |
| 2-Fluorobiphenyl (Surr)     | 84        |           | 31 - 120 | 08/28/25 08:30 | 09/02/25 12:18 | 1       |
| 2-Fluorophenol (Surr)       | 55        |           | 17 - 120 | 08/28/25 08:30 | 09/02/25 12:18 | 1       |
| Nitrobenzene-d5 (Surr)      | 81        |           | 27 - 120 | 08/28/25 08:30 | 09/02/25 12:18 | 1       |
| Phenol-d6 (Surr)            | 34        |           | 10 - 120 | 08/28/25 08:30 | 09/02/25 12:18 | 1       |
| p-Terphenyl-d14 (Surr)      | 90        |           | 45 - 120 | 08/28/25 08:30 | 09/02/25 12:18 | 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        | 8.0         | T J N     | ug/L |   | 9.78 | 10544-50-0 | 08/28/25 08:30 | 09/10/25 13:43 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2,4,6-Tribromophenol (Surr) | 81        |           | 33 - 139 | 08/28/25 08:30 | 09/10/25 13:43 | 1       |
| 2-Fluorobiphenyl (Surr)     | 88        |           | 33 - 126 | 08/28/25 08:30 | 09/10/25 13:43 | 1       |
| 2-Fluorophenol (Surr)       | 57        |           | 12 - 120 | 08/28/25 08:30 | 09/10/25 13:43 | 1       |
| Nitrobenzene-d5 (Surr)      | 90        |           | 36 - 120 | 08/28/25 08:30 | 09/10/25 13:43 | 1       |
| Phenol-d6 (Surr)            | 33        |           | 10 - 120 | 08/28/25 08:30 | 09/10/25 13:43 | 1       |
| p-Terphenyl-d14 (Surr)      | 80        |           | 47 - 131 | 08/28/25 08:30 | 09/10/25 13:43 | 1       |

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

| Analyte      | Result | Qualifier | RL | Unit | D | Prepared | Analyzed       | Dil Fac |
|--------------|--------|-----------|----|------|---|----------|----------------|---------|
| GRO (C6-C10) | <10    |           | 10 | ug/L |   |          | 09/03/25 00:24 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 81        |           | 38 - 134 |          | 09/03/25 00:24 | 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 |   | 08/29/25 09:41 | 09/07/25 08:01 | 1       |

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# Client Sample Results

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

Job ID: 380-168209-1  
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump2

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

**Lab Sample ID: 380-168209-3**

Date Collected: 08/25/25 11:50

Matrix: Water

Date Received: 08/27/25 10:04

PWSID Number: HI0000331

**Method: SW846 8015B - Diesel Range Organics (DRO) (GC) Low Level (Continued)**

| Analyte                            | Result    | Qualifier | RL       | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|-----------|-----------|----------|------|---|----------------|----------------|---------|
| Motor Oil Range Organics [C24-C36] | <26       |           | 26       | ug/L |   | 08/29/25 09:41 | 09/07/25 08:01 | 1       |
| C8-C18                             | <26       |           | 26       | ug/L |   | 08/29/25 09:41 | 09/07/25 08:01 | 1       |
| Surrogate                          | %Recovery | Qualifier | Limits   |      |   | Prepared       | Analyzed       | Dil Fac |
| n-Octacosane (Surr)                | 111       |           | 60 - 130 |      |   | 08/29/25 09:41 | 09/07/25 08:01 | 1       |

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

**Lab Sample ID: 380-168209-4**

Date Collected: 08/25/25 11:50

Matrix: Water

Date Received: 08/27/25 10:04

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

| Analyte                     | Result    | Qualifier | RL       | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|------|---|----------|----------------|---------|
| GRO (C6-C10)                | <10       |           | 10       | ug/L |   |          | 09/02/25 23:12 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |      |   | Prepared | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 73        |           | 38 - 134 |      |   |          | 09/02/25 23:12 | 1       |

# Action Limit Summary

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

Job ID: 380-168209-1  
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump2

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

**Lab Sample ID: 380-168209-1**

## 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  | ^3+       | 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 | ^3+       | ug/L | 0.2    | 0.0099 | 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                       | <0.0099 |           | ug/L | 0.2    | 0.0099 | 525.2     | Total/NA  |
| Methoxychlor                  | <0.049  | ^3+       | 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**  
**(331-202-TP072)**  
**PWSID Number: HI0000331**

**Lab Sample ID: 380-168209-3**

## 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                      | <0.049  |           | 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  | ^3+       | 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 | ^3+       | 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  | ^3+       | ug/L | 40     | 0.049  | 525.2     | Total/NA  |
| Simazine                      | <0.049  |           | ug/L | 4      | 0.049  | 525.2     | Total/NA  |
| Benzo[a]pyrene                | <0.19   |           | ug/L | 0.2    | 0.19   | 625.1 SIM | Total/NA  |

# Surrogate Summary

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

Job ID: 380-168209-1  
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump2

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

Matrix: Drinking Water

Prep Type: Total/NA

| Lab Sample ID   | Client Sample ID                           | Percent Surrogate Recovery (Acceptance Limits) |                 |                 |
|-----------------|--------------------------------------------|------------------------------------------------|-----------------|-----------------|
|                 |                                            | 2NMX<br>(70-130)                               | PRY<br>(70-130) | TPP<br>(70-130) |
| 380-168209-1    | AIEA GULCH WELLS PUMP 1 (                  | 97                                             | 89              | 106             |
| 380-168209-1 DU | AIEA GULCH WELLS PUMP 1<br>(331-201-TP071) | 94                                             | 89              | 116             |

### Surrogate Legend

2NMX = 2-Nitro-m-xylene

PRY = Perylene d12

TPP = Triphenylphosphate

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

Matrix: Water

Prep Type: Total/NA

| Lab Sample ID        | Client Sample ID                           | Percent Surrogate Recovery (Acceptance Limits) |                 |                 |
|----------------------|--------------------------------------------|------------------------------------------------|-----------------|-----------------|
|                      |                                            | 2NMX<br>(70-130)                               | PRY<br>(70-130) | TPP<br>(70-130) |
| 380-168205-I-1-A MS  | Matrix Spike                               | 95                                             | 101             | 106             |
| 380-168209-3         | AIEA GULCH WELLS PUMP 2<br>(331-202-TP072) | 96                                             | 83              | 115             |
| LCS 380-170954/21-A  | Lab Control Sample                         | 96                                             | 100             | 116             |
| LCSD 380-170954/22-A | Lab Control Sample Dup                     | 98                                             | 100             | 117             |
| MB 380-170954/19-A   | Method Blank                               | 94                                             | 92              | 112             |
| MRL 380-170954/20-A  | Lab Control Sample                         | 96                                             | 93              | 120             |

### Surrogate Legend

2NMX = 2-Nitro-m-xylene

PRY = Perylene-d12

TPP = Triphenylphosphate

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

Matrix: Drinking Water

Prep Type: Total/NA

| Lab Sample ID | Client Sample ID          | Percent Surrogate Recovery (Acceptance Limits) |                 |                 |                 |                  |                    |
|---------------|---------------------------|------------------------------------------------|-----------------|-----------------|-----------------|------------------|--------------------|
|               |                           | TBP<br>(33-139)                                | FBP<br>(33-126) | 2FP<br>(12-120) | NBZ<br>(36-120) | PHL6<br>(10-120) | TPHd14<br>(47-131) |
| 380-168209-1  | AIEA GULCH WELLS PUMP 1 ( | 77                                             | 80              | 55              | 85              | 32               | 83                 |

### Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)

FBP = 2-Fluorobiphenyl (Surr)

2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

PHL6 = Phenol-d6 (Surr)

TPHd14 = p-Terphenyl-d14 (Surr)

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

Matrix: Water

Prep Type: Total/NA

| Lab Sample ID     | Client Sample ID          | Percent Surrogate Recovery (Acceptance Limits) |                 |                 |                 |                  |                    |
|-------------------|---------------------------|------------------------------------------------|-----------------|-----------------|-----------------|------------------|--------------------|
|                   |                           | TBP<br>(33-139)                                | FBP<br>(33-126) | 2FP<br>(12-120) | NBZ<br>(36-120) | PHL6<br>(10-120) | TPHd14<br>(47-131) |
| 380-168209-3      | AIEA GULCH WELLS PUMP 2 ( | 81                                             | 88              | 57              | 90              | 33               | 80                 |
| MB 570-617934/1-A | Method Blank              | 78                                             | 79              | 52              | 87              | 31               | 79                 |

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# Surrogate Summary

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

Job ID: 380-168209-1  
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump2

## Surrogate Legend

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

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

Matrix: Drinking Water

Prep Type: Total/NA

| Lab Sample ID | Client Sample ID          | Percent Surrogate Recovery (Acceptance Limits) |                 |                 |                 |                  |                    |
|---------------|---------------------------|------------------------------------------------|-----------------|-----------------|-----------------|------------------|--------------------|
|               |                           | TBP<br>(28-127)                                | FBP<br>(31-120) | 2FP<br>(17-120) | NBZ<br>(27-120) | PHL6<br>(10-120) | TPHd14<br>(45-120) |
| 380-168209-1  | AIEA GULCH WELLS PUMP 1 ( | 78                                             | 74              | 53              | 75              | 33               | 84                 |

## Surrogate Legend

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

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

Matrix: Water

Prep Type: Total/NA

| Lab Sample ID        | Client Sample ID                           | Percent Surrogate Recovery (Acceptance Limits) |                 |                 |                 |                  |                    |
|----------------------|--------------------------------------------|------------------------------------------------|-----------------|-----------------|-----------------|------------------|--------------------|
|                      |                                            | TBP<br>(28-127)                                | FBP<br>(31-120) | 2FP<br>(17-120) | NBZ<br>(27-120) | PHL6<br>(10-120) | TPHd14<br>(45-120) |
| 380-168205-A-1-A MS  | Matrix Spike                               | 82                                             | 75              | 59              | 66              | 39               | 84                 |
| 380-168205-A-1-B MSD | Matrix Spike Duplicate                     | 87                                             | 83              | 62              | 72              | 39               | 83                 |
| 380-168209-3         | AIEA GULCH WELLS PUMP 2<br>(331-202-TP072) | 81                                             | 84              | 55              | 81              | 34               | 90                 |
| LCS 570-617934/2-A   | Lab Control Sample                         | 88                                             | 75              | 53              | 63              | 34               | 72                 |
| LCSD 570-617934/3-A  | Lab Control Sample Dup                     | 92                                             | 78              | 53              | 66              | 34               | 77                 |
| MB 570-617934/1-A    | Method Blank                               | 95                                             | 78              | 53              | 81              | 32               | 76                 |

## Surrogate Legend

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

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

Matrix: Drinking Water

Prep Type: Total/NA

| Lab Sample ID | Client Sample ID                               | Percent Surrogate Recovery (Acceptance Limits) |  |  |  |  |  |
|---------------|------------------------------------------------|------------------------------------------------|--|--|--|--|--|
|               |                                                | BFB1<br>(38-134)                               |  |  |  |  |  |
| 380-168209-1  | AIEA GULCH WELLS PUMP 1 (                      | 82                                             |  |  |  |  |  |
| 380-168209-2  | TB: AIEA GULCH WELLS PUMF<br>1 (331-201-TP071) | 78                                             |  |  |  |  |  |

## Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

# Surrogate Summary

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

Job ID: 380-168209-1

SDG: Weekly: Aiea Gulch Wells Pump 1/Pump2

## 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<br>(38-134) |
|--------------------|------------------------------------------------|------------------|
| 380-168205-C-1 MS  | Matrix Spike                                   | 90               |
| 380-168205-C-1 MSD | Matrix Spike Duplicate                         | 87               |
| 380-168209-3       | AIEA GULCH WELLS PUMP 2<br>(331-202-TP072)     | 81               |
| 380-168209-4       | TB: AIEA GULCH WELLS PUMP<br>2 (331-202-TP072) | 73               |
| LCS 570-619752/4   | Lab Control Sample                             | 87               |
| LCSD 570-619752/5  | Lab Control Sample Dup                         | 88               |
| MB 570-619752/6    | Method Blank                                   | 77               |
| MRL 570-619752/3   | Lab Control Sample                             | 80               |

#### Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

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

Matrix: Drinking Water

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

| Lab Sample ID | Client Sample ID          | OTCSN1<br>(60-130) |
|---------------|---------------------------|--------------------|
| 380-168209-1  | AIEA GULCH WELLS PUMP 1 ( | 116                |

#### Surrogate Legend

OTCSN = n-Octacosane (Surr)

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

Matrix: Water

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

| Lab Sample ID        | Client Sample ID                           | OTCSN1<br>(60-130) |
|----------------------|--------------------------------------------|--------------------|
| 380-168000-C-1-A MS  | Matrix Spike                               | 99                 |
| 380-168000-C-1-B MSD | Matrix Spike Duplicate                     | 111                |
| 380-168209-3         | AIEA GULCH WELLS PUMP 2<br>(331-202-TP072) | 111                |
| LCS 570-618766/2-A   | Lab Control Sample                         | 101                |
| LCSD 570-618766/3-A  | Lab Control Sample Dup                     | 103                |
| MB 570-618766/1-A    | Method Blank                               | 112                |
| MRL 570-618766/4-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: 380-168209-1  
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump2

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

Lab Sample ID: MB 380-170954/19-A

Matrix: Water

Analysis Batch: 171145

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 170954

| Analyte                          | MB Result | MB Qualifier | RL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------------------------------|-----------|--------------|--------|------|---|----------------|----------------|---------|
| 1-Methylnaphthalene              | <0.099    |              | 0.099  | ug/L |   | 08/27/25 14:18 | 08/28/25 14:57 | 1       |
| 2,4'-DDD                         | <0.099    |              | 0.099  | ug/L |   | 08/27/25 14:18 | 08/28/25 14:57 | 1       |
| 2,4'-DDE                         | <0.099    |              | 0.099  | ug/L |   | 08/27/25 14:18 | 08/28/25 14:57 | 1       |
| 2,4'-DDT                         | <0.099    |              | 0.099  | ug/L |   | 08/27/25 14:18 | 08/28/25 14:57 | 1       |
| 2,4-Dinitrotoluene               | <0.099    |              | 0.099  | ug/L |   | 08/27/25 14:18 | 08/28/25 14:57 | 1       |
| 2,6-Dinitrotoluene               | <0.099    |              | 0.099  | ug/L |   | 08/27/25 14:18 | 08/28/25 14:57 | 1       |
| 2-Methylnaphthalene              | <0.099    |              | 0.099  | ug/L |   | 08/27/25 14:18 | 08/28/25 14:57 | 1       |
| 4,4'-DDD                         | <0.099    |              | 0.099  | ug/L |   | 08/27/25 14:18 | 08/28/25 14:57 | 1       |
| 4,4'-DDE                         | <0.099    |              | 0.099  | ug/L |   | 08/27/25 14:18 | 08/28/25 14:57 | 1       |
| 4,4'-DDT                         | <0.099    | ^3+          | 0.099  | ug/L |   | 08/27/25 14:18 | 08/28/25 14:57 | 1       |
| Acenaphthene                     | <0.099    |              | 0.099  | ug/L |   | 08/27/25 14:18 | 08/28/25 14:57 | 1       |
| Acenaphthylene                   | <0.099    |              | 0.099  | ug/L |   | 08/27/25 14:18 | 08/28/25 14:57 | 1       |
| Acetochlor                       | <0.099    |              | 0.099  | ug/L |   | 08/27/25 14:18 | 08/28/25 14:57 | 1       |
| Alachlor                         | <0.049    |              | 0.049  | ug/L |   | 08/27/25 14:18 | 08/28/25 14:57 | 1       |
| alpha-BHC                        | <0.099    |              | 0.099  | ug/L |   | 08/27/25 14:18 | 08/28/25 14:57 | 1       |
| alpha-Chlordane                  | <0.049    |              | 0.049  | ug/L |   | 08/27/25 14:18 | 08/28/25 14:57 | 1       |
| Anthracene                       | <0.020    |              | 0.020  | ug/L |   | 08/27/25 14:18 | 08/28/25 14:57 | 1       |
| Atrazine                         | <0.049    |              | 0.049  | ug/L |   | 08/27/25 14:18 | 08/28/25 14:57 | 1       |
| Benz(a)anthracene                | <0.049    |              | 0.049  | ug/L |   | 08/27/25 14:18 | 08/28/25 14:57 | 1       |
| Benzo[a]pyrene                   | <0.020    | ^3+          | 0.020  | ug/L |   | 08/27/25 14:18 | 08/28/25 14:57 | 1       |
| Benzo[b]fluoranthene             | <0.020    | ^3+          | 0.020  | ug/L |   | 08/27/25 14:18 | 08/28/25 14:57 | 1       |
| Benzo[g,h,i]perylene             | <0.049    |              | 0.049  | ug/L |   | 08/27/25 14:18 | 08/28/25 14:57 | 1       |
| Benzo[k]fluoranthene             | <0.020    | ^3+          | 0.020  | ug/L |   | 08/27/25 14:18 | 08/28/25 14:57 | 1       |
| beta-BHC                         | <0.099    |              | 0.099  | ug/L |   | 08/27/25 14:18 | 08/28/25 14:57 | 1       |
| Bis(2-ethylhexyl) phthalate      | <0.59     |              | 0.59   | ug/L |   | 08/27/25 14:18 | 08/28/25 14:57 | 1       |
| Bromacil                         | <0.099    | ^3+          | 0.099  | ug/L |   | 08/27/25 14:18 | 08/28/25 14:57 | 1       |
| Butachlor                        | <0.049    |              | 0.049  | ug/L |   | 08/27/25 14:18 | 08/28/25 14:57 | 1       |
| Butylbenzylphthalate             | <0.49     | ^3+          | 0.49   | ug/L |   | 08/27/25 14:18 | 08/28/25 14:57 | 1       |
| Chlorobenzilate                  | <0.099    |              | 0.099  | ug/L |   | 08/27/25 14:18 | 08/28/25 14:57 | 1       |
| Chloroneb                        | <0.099    |              | 0.099  | ug/L |   | 08/27/25 14:18 | 08/28/25 14:57 | 1       |
| Chlorothalonil (Draconil, Bravo) | <0.099    |              | 0.099  | ug/L |   | 08/27/25 14:18 | 08/28/25 14:57 | 1       |
| Chlorpyrifos                     | <0.049    |              | 0.049  | ug/L |   | 08/27/25 14:18 | 08/28/25 14:57 | 1       |
| Chrysene                         | <0.020    |              | 0.020  | ug/L |   | 08/27/25 14:18 | 08/28/25 14:57 | 1       |
| delta-BHC                        | <0.099    |              | 0.099  | ug/L |   | 08/27/25 14:18 | 08/28/25 14:57 | 1       |
| Di(2-ethylhexyl)adipate          | <0.59     |              | 0.59   | ug/L |   | 08/27/25 14:18 | 08/28/25 14:57 | 1       |
| Dibenz(a,h)anthracene            | <0.049    |              | 0.049  | ug/L |   | 08/27/25 14:18 | 08/28/25 14:57 | 1       |
| Diclorvos (DDVP)                 | <0.049    |              | 0.049  | ug/L |   | 08/27/25 14:18 | 08/28/25 14:57 | 1       |
| Dieldrin                         | <0.0099   | ^3+          | 0.0099 | ug/L |   | 08/27/25 14:18 | 08/28/25 14:57 | 1       |
| Diethylphthalate                 | <0.49     |              | 0.49   | ug/L |   | 08/27/25 14:18 | 08/28/25 14:57 | 1       |
| Dimethylphthalate                | <0.49     |              | 0.49   | ug/L |   | 08/27/25 14:18 | 08/28/25 14:57 | 1       |
| Di-n-butyl phthalate             | <0.99     |              | 0.99   | ug/L |   | 08/27/25 14:18 | 08/28/25 14:57 | 1       |
| Di-n-octyl phthalate             | <0.099    |              | 0.099  | ug/L |   | 08/27/25 14:18 | 08/28/25 14:57 | 1       |
| Endosulfan I (Alpha)             | <0.099    |              | 0.099  | ug/L |   | 08/27/25 14:18 | 08/28/25 14:57 | 1       |
| Endosulfan II (Beta)             | <0.099    |              | 0.099  | ug/L |   | 08/27/25 14:18 | 08/28/25 14:57 | 1       |
| Endosulfan sulfate               | <0.099    | ^3+          | 0.099  | ug/L |   | 08/27/25 14:18 | 08/28/25 14:57 | 1       |
| Endrin                           | <0.0099   |              | 0.0099 | ug/L |   | 08/27/25 14:18 | 08/28/25 14:57 | 1       |
| Endrin aldehyde                  | <0.099    |              | 0.099  | ug/L |   | 08/27/25 14:18 | 08/28/25 14:57 | 1       |
| EPTC                             | <0.099    |              | 0.099  | ug/L |   | 08/27/25 14:18 | 08/28/25 14:57 | 1       |

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-168209-1  
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump2

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

Lab Sample ID: MB 380-170954/19-A

Matrix: Water

Analysis Batch: 171145

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 170954

| Analyte                          | MB Result | MB Qualifier | RL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------------------------------|-----------|--------------|--------|------|---|----------------|----------------|---------|
| Fluoranthene                     | <0.099    |              | 0.099  | ug/L |   | 08/27/25 14:18 | 08/28/25 14:57 | 1       |
| Fluorene                         | <0.049    |              | 0.049  | ug/L |   | 08/27/25 14:18 | 08/28/25 14:57 | 1       |
| gamma-Chlordane                  | <0.049    |              | 0.049  | ug/L |   | 08/27/25 14:18 | 08/28/25 14:57 | 1       |
| Heptachlor                       | <0.0099   |              | 0.0099 | ug/L |   | 08/27/25 14:18 | 08/28/25 14:57 | 1       |
| Heptachlor epoxide (isomer B)    | <0.0099   | ^3+          | 0.0099 | ug/L |   | 08/27/25 14:18 | 08/28/25 14:57 | 1       |
| Hexachlorobenzene                | <0.049    |              | 0.049  | ug/L |   | 08/27/25 14:18 | 08/28/25 14:57 | 1       |
| Hexachlorocyclopentadiene        | <0.049    |              | 0.049  | ug/L |   | 08/27/25 14:18 | 08/28/25 14:57 | 1       |
| Indeno[1,2,3-cd]pyrene           | <0.049    |              | 0.049  | ug/L |   | 08/27/25 14:18 | 08/28/25 14:57 | 1       |
| Isophorone                       | <0.099    |              | 0.099  | ug/L |   | 08/27/25 14:18 | 08/28/25 14:57 | 1       |
| Lindane                          | <0.0099   |              | 0.0099 | ug/L |   | 08/27/25 14:18 | 08/28/25 14:57 | 1       |
| Malathion                        | <0.099    |              | 0.099  | ug/L |   | 08/27/25 14:18 | 08/28/25 14:57 | 1       |
| Methoxychlor                     | <0.049    | ^3+          | 0.049  | ug/L |   | 08/27/25 14:18 | 08/28/25 14:57 | 1       |
| Metolachlor                      | <0.049    |              | 0.049  | ug/L |   | 08/27/25 14:18 | 08/28/25 14:57 | 1       |
| Molinate                         | <0.099    |              | 0.099  | ug/L |   | 08/27/25 14:18 | 08/28/25 14:57 | 1       |
| Naphthalene                      | <0.099    |              | 0.099  | ug/L |   | 08/27/25 14:18 | 08/28/25 14:57 | 1       |
| Parathion                        | <0.099    |              | 0.099  | ug/L |   | 08/27/25 14:18 | 08/28/25 14:57 | 1       |
| Pendimethalin (Penoxaline)       | <0.099    |              | 0.099  | ug/L |   | 08/27/25 14:18 | 08/28/25 14:57 | 1       |
| Phenanthrene                     | <0.039    |              | 0.039  | ug/L |   | 08/27/25 14:18 | 08/28/25 14:57 | 1       |
| Propachlor                       | <0.049    |              | 0.049  | ug/L |   | 08/27/25 14:18 | 08/28/25 14:57 | 1       |
| Pyrene                           | <0.049    |              | 0.049  | ug/L |   | 08/27/25 14:18 | 08/28/25 14:57 | 1       |
| Simazine                         | <0.049    |              | 0.049  | ug/L |   | 08/27/25 14:18 | 08/28/25 14:57 | 1       |
| Terbacil                         | <0.099    |              | 0.099  | ug/L |   | 08/27/25 14:18 | 08/28/25 14:57 | 1       |
| Terbutylazine                    | <0.099    |              | 0.099  | ug/L |   | 08/27/25 14:18 | 08/28/25 14:57 | 1       |
| Thiobencarb                      | <0.099    |              | 0.099  | ug/L |   | 08/27/25 14:18 | 08/28/25 14:57 | 1       |
| Total Permethrin (mixed isomers) | <0.20     |              | 0.20   | ug/L |   | 08/27/25 14:18 | 08/28/25 14:57 | 1       |
| trans-Nonachlor                  | <0.049    |              | 0.049  | ug/L |   | 08/27/25 14:18 | 08/28/25 14:57 | 1       |
| Trifluralin                      | <0.099    |              | 0.099  | ug/L |   | 08/27/25 14:18 | 08/28/25 14:57 | 1       |

| Tentatively Identified Compound      | MB Est. Result | MB Qualifier | Unit | D | RT    | CAS No.      | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|----------------|--------------|------|---|-------|--------------|----------------|----------------|---------|
| Cyclopentene, 1,2,3,4,5-pentamethyl- | 1.11           | T J N        | ug/L |   | 2.55  | 1000154-28-6 | 08/27/25 14:18 | 08/28/25 14:57 | 1       |
| Decane                               | 2.31           | T J N        | ug/L |   | 2.81  | 124-18-5     | 08/27/25 14:18 | 08/28/25 14:57 | 1       |
| 9-Octadecenamide, (Z)-               | 4.34           | T J N        | ug/L |   | 7.96  | 301-02-0     | 08/27/25 14:18 | 08/28/25 14:57 | 1       |
| 9-Octadecenamide, (Z)-               | 1.09           | T N J        | ug/L |   | 10.52 | 301-02-0     | 08/27/25 14:18 | 08/28/25 14:57 | 1       |
| Unknown                              | 0.737          | T J          | ug/L |   | 15.68 | N/A          | 08/27/25 14:18 | 08/28/25 14:57 | 1       |

| Surrogate          | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|--------------------|--------------|--------------|----------|----------------|----------------|---------|
| 2-Nitro-m-xylene   | 94           |              | 70 - 130 | 08/27/25 14:18 | 08/28/25 14:57 | 1       |
| Perylene-d12       | 92           |              | 70 - 130 | 08/27/25 14:18 | 08/28/25 14:57 | 1       |
| Triphenylphosphate | 112          |              | 70 - 130 | 08/27/25 14:18 | 08/28/25 14:57 | 1       |

Lab Sample ID: LCS 380-170954/21-A

Matrix: Water

Analysis Batch: 171145

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 170954

| Analyte             | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------------------|-------------|------------|---------------|------|---|------|-------------|
| 1-Methylnaphthalene | 1.97        | 1.95       |               | ug/L |   | 99   | 70 - 130    |
| 2,4'-DDD            | 1.97        | 2.13       |               | ug/L |   | 108  | 70 - 130    |

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-168209-1  
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump2

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

Lab Sample ID: LCS 380-170954/21-A

Matrix: Water

Analysis Batch: 171145

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 170954

| Analyte                          | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------------------------------|-------------|------------|---------------|------|---|------|-------------|
| 2,4'-DDE                         | 1.97        | 2.17       |               | ug/L |   | 110  | 70 - 130    |
| 2,4'-DDT                         | 1.97        | 2.10       |               | ug/L |   | 106  | 70 - 130    |
| 2,4-Dinitrotoluene               | 1.97        | 1.80       |               | ug/L |   | 91   | 70 - 130    |
| 2,6-Dinitrotoluene               | 1.97        | 1.91       |               | ug/L |   | 97   | 70 - 130    |
| 2-Methylnaphthalene              | 1.97        | 1.97       |               | ug/L |   | 100  | 70 - 130    |
| 4,4'-DDD                         | 1.97        | 2.11       |               | ug/L |   | 107  | 70 - 130    |
| 4,4'-DDE                         | 1.97        | 2.18       |               | ug/L |   | 111  | 70 - 130    |
| 4,4'-DDT                         | 1.97        | 2.16       |               | ug/L |   | 109  | 70 - 130    |
| Acenaphthene                     | 1.97        | 1.95       |               | ug/L |   | 99   | 70 - 130    |
| Acenaphthylene                   | 1.97        | 1.76       |               | ug/L |   | 89   | 70 - 130    |
| Acetochlor                       | 1.97        | 2.01       |               | ug/L |   | 102  | 70 - 130    |
| Alachlor                         | 1.97        | 2.18       |               | ug/L |   | 111  | 70 - 130    |
| alpha-BHC                        | 1.97        | 2.07       |               | ug/L |   | 105  | 70 - 130    |
| alpha-Chlordane                  | 1.97        | 2.15       |               | ug/L |   | 109  | 70 - 130    |
| Anthracene                       | 1.97        | 1.86       |               | ug/L |   | 95   | 70 - 130    |
| Atrazine                         | 1.97        | 2.13       |               | ug/L |   | 108  | 70 - 130    |
| Benz(a)anthracene                | 1.97        | 2.07       |               | ug/L |   | 105  | 70 - 130    |
| Benzo[a]pyrene                   | 1.97        | 2.19       |               | ug/L |   | 111  | 70 - 130    |
| Benzo[b]fluoranthene             | 1.97        | 2.14       |               | ug/L |   | 109  | 70 - 130    |
| Benzo[g,h,i]perylene             | 1.97        | 2.18       |               | ug/L |   | 111  | 70 - 130    |
| Benzo[k]fluoranthene             | 1.97        | 2.22       |               | ug/L |   | 113  | 70 - 130    |
| beta-BHC                         | 1.97        | 2.07       |               | ug/L |   | 105  | 70 - 130    |
| Bis(2-ethylhexyl) phthalate      | 1.97        | 1.96       |               | ug/L |   | 100  | 70 - 130    |
| Bromacil                         | 1.97        | 2.04       |               | ug/L |   | 104  | 70 - 130    |
| Butachlor                        | 1.97        | 2.13       |               | ug/L |   | 108  | 70 - 130    |
| Butylbenzylphthalate             | 1.97        | 2.46       |               | ug/L |   | 125  | 70 - 130    |
| Chlorobenzilate                  | 1.97        | 2.01       |               | ug/L |   | 102  | 70 - 130    |
| Chloroneb                        | 1.97        | 2.01       |               | ug/L |   | 102  | 70 - 130    |
| Chlorothalonil (Draconil, Bravo) | 1.97        | 2.05       |               | ug/L |   | 104  | 70 - 130    |
| Chlorpyrifos                     | 1.97        | 1.99       |               | ug/L |   | 101  | 70 - 130    |
| Chrysene                         | 1.97        | 2.10       |               | ug/L |   | 107  | 70 - 130    |
| delta-BHC                        | 1.97        | 2.01       |               | ug/L |   | 102  | 70 - 130    |
| Di(2-ethylhexyl)adipate          | 1.97        | 2.27       |               | ug/L |   | 115  | 70 - 130    |
| Dibenz(a,h)anthracene            | 1.97        | 2.16       |               | ug/L |   | 110  | 70 - 130    |
| Diclorvos (DDVP)                 | 1.97        | 2.00       |               | ug/L |   | 102  | 70 - 130    |
| Dieldrin                         | 1.97        | 2.16       |               | ug/L |   | 110  | 70 - 130    |
| Diethylphthalate                 | 1.97        | 2.04       |               | ug/L |   | 103  | 70 - 130    |
| Dimethylphthalate                | 1.97        | 2.06       |               | ug/L |   | 104  | 70 - 130    |
| Di-n-butyl phthalate             | 3.94        | 4.42       |               | ug/L |   | 112  | 70 - 130    |
| Di-n-octyl phthalate             | 1.97        | 2.00       |               | ug/L |   | 101  | 70 - 130    |
| Endosulfan I (Alpha)             | 1.97        | 1.96       |               | ug/L |   | 100  | 70 - 130    |
| Endosulfan II (Beta)             | 1.97        | 2.06       |               | ug/L |   | 104  | 70 - 130    |
| Endosulfan sulfate               | 1.97        | 2.13       |               | ug/L |   | 108  | 70 - 130    |
| Endrin                           | 1.97        | 2.35       |               | ug/L |   | 119  | 70 - 130    |
| Endrin aldehyde                  | 1.97        | 2.19       |               | ug/L |   | 111  | 60 - 130    |
| EPTC                             | 1.97        | 2.06       |               | ug/L |   | 105  | 70 - 130    |
| Fluoranthene                     | 1.97        | 2.12       |               | ug/L |   | 108  | 70 - 130    |
| Fluorene                         | 1.97        | 2.12       |               | ug/L |   | 107  | 70 - 130    |
| gamma-Chlordane                  | 1.97        | 2.19       |               | ug/L |   | 111  | 70 - 130    |

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-168209-1  
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump2

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

Lab Sample ID: LCS 380-170954/21-A

Matrix: Water

Analysis Batch: 171145

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 170954

| Analyte                       | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|-------------------------------|-------------|------------|---------------|------|---|------|-------------|
| Heptachlor                    | 1.97        | 2.27       |               | ug/L |   | 116  | 70 - 130    |
| Heptachlor epoxide (isomer B) | 1.97        | 2.20       |               | ug/L |   | 112  | 70 - 130    |
| Hexachlorobenzene             | 1.97        | 2.08       |               | ug/L |   | 105  | 70 - 130    |
| Hexachlorocyclopentadiene     | 1.97        | 2.01       |               | ug/L |   | 102  | 70 - 130    |
| Indeno[1,2,3-cd]pyrene        | 1.97        | 2.28       |               | ug/L |   | 116  | 70 - 130    |
| Isophorone                    | 1.97        | 1.93       |               | ug/L |   | 98   | 70 - 130    |
| Lindane                       | 1.97        | 2.22       |               | ug/L |   | 113  | 70 - 130    |
| Malathion                     | 1.97        | 2.05       |               | ug/L |   | 104  | 70 - 130    |
| Methoxychlor                  | 1.97        | 2.02       |               | ug/L |   | 103  | 70 - 130    |
| Metolachlor                   | 1.97        | 2.07       |               | ug/L |   | 105  | 70 - 130    |
| Molinate                      | 1.97        | 2.16       |               | ug/L |   | 110  | 70 - 130    |
| Naphthalene                   | 1.97        | 1.86       |               | ug/L |   | 95   | 70 - 130    |
| Parathion                     | 1.97        | 2.02       |               | ug/L |   | 103  | 70 - 130    |
| Pendimethalin (Penoxaline)    | 1.97        | 2.21       |               | ug/L |   | 112  | 70 - 130    |
| Phenanthrene                  | 1.97        | 2.03       |               | ug/L |   | 103  | 70 - 130    |
| Propachlor                    | 1.97        | 2.25       |               | ug/L |   | 114  | 70 - 130    |
| Pyrene                        | 1.97        | 2.06       |               | ug/L |   | 104  | 70 - 130    |
| Simazine                      | 1.97        | 2.15       |               | ug/L |   | 109  | 70 - 130    |
| Terbacil                      | 1.97        | 2.07       |               | ug/L |   | 105  | 70 - 130    |
| Terbutylazine                 | 1.97        | 2.15       |               | ug/L |   | 109  | 70 - 130    |
| Thiobencarb                   | 1.97        | 2.01       |               | ug/L |   | 102  | 70 - 130    |
| trans-Nonachlor               | 1.97        | 2.25       |               | ug/L |   | 114  | 70 - 130    |
| Trifluralin                   | 1.97        | 2.03       |               | ug/L |   | 103  | 70 - 130    |

| Surrogate          | LCS %Recovery | LCS Qualifier | Limits   |
|--------------------|---------------|---------------|----------|
| 2-Nitro-m-xylene   | 96            |               | 70 - 130 |
| Perylene-d12       | 100           |               | 70 - 130 |
| Triphenylphosphate | 116           |               | 70 - 130 |

Lab Sample ID: LCSD 380-170954/22-A

Matrix: Water

Analysis Batch: 171145

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 170954

| Analyte             | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| 1-Methylnaphthalene | 1.97        | 1.95        |                | ug/L |   | 99   | 70 - 130    | 0   | 20        |
| 2,4'-DDD            | 1.97        | 2.13        |                | ug/L |   | 109  | 70 - 130    | 0   | 20        |
| 2,4'-DDE            | 1.97        | 2.18        |                | ug/L |   | 111  | 70 - 130    | 1   | 20        |
| 2,4'-DDT            | 1.97        | 2.12        |                | ug/L |   | 108  | 70 - 130    | 1   | 20        |
| 2,4-Dinitrotoluene  | 1.97        | 1.84        |                | ug/L |   | 94   | 70 - 130    | 2   | 20        |
| 2,6-Dinitrotoluene  | 1.97        | 1.99        |                | ug/L |   | 101  | 70 - 130    | 4   | 20        |
| 2-Methylnaphthalene | 1.97        | 1.99        |                | ug/L |   | 101  | 70 - 130    | 1   | 20        |
| 4,4'-DDD            | 1.97        | 2.12        |                | ug/L |   | 108  | 70 - 130    | 1   | 20        |
| 4,4'-DDE            | 1.97        | 2.20        |                | ug/L |   | 112  | 70 - 130    | 1   | 20        |
| 4,4'-DDT            | 1.97        | 2.17        |                | ug/L |   | 110  | 70 - 130    | 0   | 20        |
| Acenaphthene        | 1.97        | 1.95        |                | ug/L |   | 99   | 70 - 130    | 0   | 20        |
| Acenaphthylene      | 1.97        | 1.82        |                | ug/L |   | 92   | 70 - 130    | 3   | 20        |
| Acetochlor          | 1.97        | 2.00        |                | ug/L |   | 102  | 70 - 130    | 0   | 20        |
| Alachlor            | 1.97        | 2.21        |                | ug/L |   | 112  | 70 - 130    | 1   | 20        |

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-168209-1  
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump2

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

Lab Sample ID: LCSD 380-170954/22-A

Matrix: Water

Analysis Batch: 171145

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 170954

| Analyte                          | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------------------------------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| alpha-BHC                        | 1.97        | 2.05        |                | ug/L |   | 104  | 70 - 130    | 1   | 20        |
| alpha-Chlordane                  | 1.97        | 2.14        |                | ug/L |   | 109  | 70 - 130    | 0   | 20        |
| Anthracene                       | 1.97        | 1.90        |                | ug/L |   | 97   | 70 - 130    | 2   | 20        |
| Atrazine                         | 1.97        | 2.22        |                | ug/L |   | 113  | 70 - 130    | 4   | 20        |
| Benz(a)anthracene                | 1.97        | 2.06        |                | ug/L |   | 105  | 70 - 130    | 0   | 20        |
| Benzo[a]pyrene                   | 1.97        | 2.15        |                | ug/L |   | 109  | 70 - 130    | 2   | 20        |
| Benzo[b]fluoranthene             | 1.97        | 2.07        |                | ug/L |   | 105  | 70 - 130    | 3   | 20        |
| Benzo[g,h,i]perylene             | 1.97        | 2.08        |                | ug/L |   | 106  | 70 - 130    | 5   | 20        |
| Benzo[k]fluoranthene             | 1.97        | 2.12        |                | ug/L |   | 108  | 70 - 130    | 5   | 20        |
| beta-BHC                         | 1.97        | 2.12        |                | ug/L |   | 108  | 70 - 130    | 3   | 20        |
| Bis(2-ethylhexyl) phthalate      | 1.97        | 2.04        |                | ug/L |   | 104  | 70 - 130    | 4   | 20        |
| Bromacil                         | 1.97        | 2.15        |                | ug/L |   | 109  | 70 - 130    | 5   | 20        |
| Butachlor                        | 1.97        | 2.13        |                | ug/L |   | 108  | 70 - 130    | 0   | 20        |
| Butylbenzylphthalate             | 1.97        | 2.48        |                | ug/L |   | 126  | 70 - 130    | 1   | 20        |
| Chlorobenzilate                  | 1.97        | 2.07        |                | ug/L |   | 105  | 70 - 130    | 3   | 20        |
| Chloroneb                        | 1.97        | 2.01        |                | ug/L |   | 102  | 70 - 130    | 0   | 20        |
| Chlorothalonil (Draconil, Bravo) | 1.97        | 2.14        |                | ug/L |   | 109  | 70 - 130    | 4   | 20        |
| Chlorpyrifos                     | 1.97        | 1.97        |                | ug/L |   | 100  | 70 - 130    | 1   | 20        |
| Chrysene                         | 1.97        | 2.11        |                | ug/L |   | 107  | 70 - 130    | 0   | 20        |
| delta-BHC                        | 1.97        | 2.07        |                | ug/L |   | 105  | 70 - 130    | 3   | 20        |
| Di(2-ethylhexyl)adipate          | 1.97        | 2.36        |                | ug/L |   | 120  | 70 - 130    | 4   | 20        |
| Dibenz(a,h)anthracene            | 1.97        | 2.11        |                | ug/L |   | 108  | 70 - 130    | 2   | 20        |
| Diclorvos (DDVP)                 | 1.97        | 2.07        |                | ug/L |   | 105  | 70 - 130    | 3   | 20        |
| Dieldrin                         | 1.97        | 2.15        |                | ug/L |   | 110  | 70 - 130    | 1   | 20        |
| Diethylphthalate                 | 1.97        | 2.05        |                | ug/L |   | 104  | 70 - 130    | 1   | 20        |
| Dimethylphthalate                | 1.97        | 2.08        |                | ug/L |   | 106  | 70 - 130    | 1   | 20        |
| Di-n-butyl phthalate             | 3.93        | 4.52        |                | ug/L |   | 115  | 70 - 130    | 2   | 20        |
| Di-n-octyl phthalate             | 1.97        | 2.12        |                | ug/L |   | 108  | 70 - 130    | 6   | 20        |
| Endosulfan I (Alpha)             | 1.97        | 1.97        |                | ug/L |   | 100  | 70 - 130    | 1   | 20        |
| Endosulfan II (Beta)             | 1.97        | 2.11        |                | ug/L |   | 107  | 70 - 130    | 2   | 20        |
| Endosulfan sulfate               | 1.97        | 2.11        |                | ug/L |   | 107  | 70 - 130    | 1   | 20        |
| Endrin                           | 1.97        | 2.34        |                | ug/L |   | 119  | 70 - 130    | 1   | 20        |
| Endrin aldehyde                  | 1.97        | 2.28        |                | ug/L |   | 116  | 60 - 130    | 4   | 20        |
| EPTC                             | 1.97        | 2.06        |                | ug/L |   | 105  | 70 - 130    | 0   | 20        |
| Fluoranthene                     | 1.97        | 2.15        |                | ug/L |   | 109  | 70 - 130    | 1   | 20        |
| Fluorene                         | 1.97        | 2.13        |                | ug/L |   | 108  | 70 - 130    | 1   | 20        |
| gamma-Chlordane                  | 1.97        | 2.21        |                | ug/L |   | 112  | 70 - 130    | 1   | 20        |
| Heptachlor                       | 1.97        | 2.24        |                | ug/L |   | 114  | 70 - 130    | 2   | 20        |
| Heptachlor epoxide (isomer B)    | 1.97        | 2.23        |                | ug/L |   | 113  | 70 - 130    | 1   | 20        |
| Hexachlorobenzene                | 1.97        | 2.06        |                | ug/L |   | 105  | 70 - 130    | 1   | 20        |
| Hexachlorocyclopentadiene        | 1.97        | 2.10        |                | ug/L |   | 107  | 70 - 130    | 4   | 20        |
| Indeno[1,2,3-cd]pyrene           | 1.97        | 2.23        |                | ug/L |   | 113  | 70 - 130    | 2   | 20        |
| Isophorone                       | 1.97        | 1.99        |                | ug/L |   | 101  | 70 - 130    | 3   | 20        |
| Lindane                          | 1.97        | 2.24        |                | ug/L |   | 114  | 70 - 130    | 1   | 20        |
| Malathion                        | 1.97        | 2.06        |                | ug/L |   | 105  | 70 - 130    | 0   | 20        |
| Methoxychlor                     | 1.97        | 2.00        |                | ug/L |   | 102  | 70 - 130    | 1   | 20        |
| Metolachlor                      | 1.97        | 2.09        |                | ug/L |   | 106  | 70 - 130    | 1   | 20        |
| Molinate                         | 1.97        | 2.13        |                | ug/L |   | 108  | 70 - 130    | 1   | 20        |
| Naphthalene                      | 1.97        | 1.89        |                | ug/L |   | 96   | 70 - 130    | 1   | 20        |

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-168209-1  
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump2

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

Lab Sample ID: LCSD 380-170954/22-A

Matrix: Water

Analysis Batch: 171145

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 170954

| Analyte                    | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------------------------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| Parathion                  | 1.97        | 2.10        |                | ug/L |   | 107  | 70 - 130    | 4   | 20        |
| Pendimethalin (Penoxaline) | 1.97        | 2.22        |                | ug/L |   | 113  | 70 - 130    | 1   | 20        |
| Phenanthrene               | 1.97        | 2.05        |                | ug/L |   | 104  | 70 - 130    | 1   | 20        |
| Propachlor                 | 1.97        | 2.27        |                | ug/L |   | 116  | 70 - 130    | 1   | 20        |
| Pyrene                     | 1.97        | 2.10        |                | ug/L |   | 107  | 70 - 130    | 2   | 20        |
| Simazine                   | 1.97        | 2.23        |                | ug/L |   | 113  | 70 - 130    | 3   | 20        |
| Terbacil                   | 1.97        | 2.21        |                | ug/L |   | 113  | 70 - 130    | 7   | 20        |
| Terbutylazine              | 1.97        | 2.18        |                | ug/L |   | 111  | 70 - 130    | 1   | 20        |
| Thiobencarb                | 1.97        | 2.04        |                | ug/L |   | 104  | 70 - 130    | 1   | 20        |
| trans-Nonachlor            | 1.97        | 2.21        |                | ug/L |   | 112  | 70 - 130    | 2   | 20        |
| Trifluralin                | 1.97        | 2.04        |                | ug/L |   | 104  | 70 - 130    | 1   | 20        |

| Surrogate          | LCSD %Recovery | LCSD Qualifier | Limits   |
|--------------------|----------------|----------------|----------|
| 2-Nitro-m-xylene   | 98             |                | 70 - 130 |
| Perylene-d12       | 100            |                | 70 - 130 |
| Triphenylphosphate | 117            |                | 70 - 130 |

Lab Sample ID: MRL 380-170954/20-A

Matrix: Water

Analysis Batch: 171145

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 170954

| Analyte                     | Spike Added | MRL Result | MRL Qualifier | Unit | D | %Rec | %Rec Limits |
|-----------------------------|-------------|------------|---------------|------|---|------|-------------|
| 1-Methylnaphthalene         | 0.0985      | 0.114      |               | ug/L |   | 116  | 50 - 150    |
| 2,4'-DDD                    | 0.0985      | 0.115      |               | ug/L |   | 117  | 50 - 150    |
| 2,4'-DDE                    | 0.0985      | 0.118      |               | ug/L |   | 120  | 50 - 150    |
| 2,4'-DDT                    | 0.0985      | 0.137      |               | ug/L |   | 139  | 50 - 150    |
| 2,4-Dinitrotoluene          | 0.0985      | 0.109      |               | ug/L |   | 110  | 50 - 150    |
| 2,6-Dinitrotoluene          | 0.0985      | 0.117      |               | ug/L |   | 119  | 50 - 150    |
| 2-Methylnaphthalene         | 0.0985      | 0.107      |               | ug/L |   | 109  | 50 - 150    |
| 4,4'-DDD                    | 0.0985      | 0.141      |               | ug/L |   | 143  | 50 - 150    |
| 4,4'-DDE                    | 0.0985      | 0.122      |               | ug/L |   | 124  | 50 - 150    |
| 4,4'-DDT                    | 0.0985      | 0.152      | ^3+           | ug/L |   | 154  | 50 - 150    |
| Acenaphthene                | 0.0985      | 0.0993     |               | ug/L |   | 101  | 50 - 150    |
| Acenaphthylene              | 0.0985      | 0.0918     | J             | ug/L |   | 93   | 50 - 150    |
| Acetochlor                  | 0.0985      | 0.136      |               | ug/L |   | 138  | 50 - 150    |
| Alachlor                    | 0.0492      | 0.0603     |               | ug/L |   | 123  | 50 - 150    |
| alpha-BHC                   | 0.0985      | 0.115      |               | ug/L |   | 117  | 50 - 150    |
| alpha-Chlordane             | 0.0246      | 0.0365     | J             | ug/L |   | 148  | 50 - 150    |
| Anthracene                  | 0.0197      | 0.0264     |               | ug/L |   | 134  | 50 - 150    |
| Atrazine                    | 0.0492      | 0.0734     |               | ug/L |   | 149  | 50 - 150    |
| Benz(a)anthracene           | 0.0492      | 0.0601     |               | ug/L |   | 122  | 50 - 150    |
| Benzo[a]pyrene              | 0.0197      | 0.0315     | ^3+           | ug/L |   | 160  | 50 - 150    |
| Benzo[b]fluoranthene        | 0.0197      | 0.0305     | ^3+           | ug/L |   | 155  | 50 - 150    |
| Benzo[g,h,i]perylene        | 0.0492      | 0.0604     |               | ug/L |   | 123  | 50 - 150    |
| Benzo[k]fluoranthene        | 0.0197      | 0.0297     | ^3+           | ug/L |   | 151  | 50 - 150    |
| beta-BHC                    | 0.0985      | 0.132      |               | ug/L |   | 134  | 50 - 150    |
| Bis(2-ethylhexyl) phthalate | 0.591       | 0.664      |               | ug/L |   | 112  | 50 - 150    |
| Bromacil                    | 0.0985      | 0.153      | ^3+           | ug/L |   | 156  | 50 - 150    |

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# QC Sample Results

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

Job ID: 380-168209-1  
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump2

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

Lab Sample ID: MRL 380-170954/20-A

Matrix: Water

Analysis Batch: 171145

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 170954

| Analyte                          | Spike Added | MRL Result | MRL Qualifier | Unit | D | %Rec | %Rec Limits |
|----------------------------------|-------------|------------|---------------|------|---|------|-------------|
| Butachlor                        | 0.0492      | 0.0716     |               | ug/L |   | 146  | 50 - 150    |
| Butylbenzylphthalate             | 0.492       | 0.775      | ^3+           | ug/L |   | 157  | 50 - 150    |
| Chlorobenzilate                  | 0.0985      | 0.124      |               | ug/L |   | 126  | 50 - 150    |
| Chloroneb                        | 0.0985      | 0.112      |               | ug/L |   | 114  | 50 - 150    |
| Chlorothalonil (Draconil, Bravo) | 0.0985      | 0.118      |               | ug/L |   | 120  | 50 - 150    |
| Chlorpyrifos                     | 0.0492      | 0.0683     |               | ug/L |   | 139  | 50 - 150    |
| Chrysene                         | 0.0197      | 0.0223     |               | ug/L |   | 113  | 50 - 150    |
| delta-BHC                        | 0.0985      | 0.112      |               | ug/L |   | 113  | 50 - 150    |
| Di(2-ethylhexyl)adipate          | 0.591       | 0.825      |               | ug/L |   | 140  | 50 - 150    |
| Dibenz(a,h)anthracene            | 0.0492      | 0.0614     |               | ug/L |   | 125  | 50 - 150    |
| Diclorvos (DDVP)                 | 0.0492      | 0.0626     |               | ug/L |   | 127  | 50 - 150    |
| Dieldrin                         | 0.00985     | 0.0156     | ^3+           | ug/L |   | 159  | 50 - 150    |
| Diethylphthalate                 | 0.492       | 0.576      |               | ug/L |   | 117  | 50 - 150    |
| Dimethylphthalate                | 0.492       | 0.568      |               | ug/L |   | 115  | 50 - 150    |
| Di-n-butyl phthalate             | 0.492       | 0.757      | J             | ug/L |   | 154  | 49 - 243    |
| Di-n-octyl phthalate             | 0.0985      | 0.102      |               | ug/L |   | 104  | 50 - 150    |
| Endosulfan I (Alpha)             | 0.0985      | 0.102      |               | ug/L |   | 104  | 50 - 150    |
| Endosulfan II (Beta)             | 0.0985      | 0.120      |               | ug/L |   | 122  | 50 - 150    |
| Endosulfan sulfate               | 0.0985      | 0.151      | ^3+           | ug/L |   | 153  | 50 - 150    |
| Endrin                           | 0.00985     | 0.0140     |               | ug/L |   | 142  | 50 - 150    |
| Endrin aldehyde                  | 0.0985      | 0.142      |               | ug/L |   | 144  | 50 - 150    |
| EPTC                             | 0.0985      | 0.101      |               | ug/L |   | 102  | 50 - 150    |
| Fluoranthene                     | 0.0985      | 0.124      |               | ug/L |   | 126  | 50 - 150    |
| Fluorene                         | 0.0492      | 0.0601     |               | ug/L |   | 122  | 50 - 150    |
| gamma-Chlordane                  | 0.0246      | 0.0325     | J             | ug/L |   | 132  | 50 - 150    |
| Heptachlor                       | 0.00985     | 0.0120     |               | ug/L |   | 121  | 50 - 150    |
| Heptachlor epoxide (isomer B)    | 0.00985     | 0.0157     | ^3+           | ug/L |   | 159  | 50 - 150    |
| Hexachlorobenzene                | 0.0492      | 0.0573     |               | ug/L |   | 116  | 50 - 150    |
| Hexachlorocyclopentadiene        | 0.0492      | 0.0529     |               | ug/L |   | 107  | 50 - 150    |
| Indeno[1,2,3-cd]pyrene           | 0.0492      | 0.0689     |               | ug/L |   | 140  | 50 - 150    |
| Isophorone                       | 0.0985      | 0.130      |               | ug/L |   | 132  | 50 - 150    |
| Lindane                          | 0.00985     | 0.0123     |               | ug/L |   | 125  | 50 - 150    |
| Malathion                        | 0.0985      | 0.127      |               | ug/L |   | 129  | 50 - 150    |
| Methoxychlor                     | 0.0492      | 0.0748     | ^3+           | ug/L |   | 152  | 50 - 150    |
| Metolachlor                      | 0.0492      | 0.0713     |               | ug/L |   | 145  | 50 - 150    |
| Molinate                         | 0.0985      | 0.113      |               | ug/L |   | 115  | 50 - 150    |
| Naphthalene                      | 0.0985      | 0.104      |               | ug/L |   | 106  | 50 - 150    |
| Parathion                        | 0.0985      | 0.111      |               | ug/L |   | 113  | 50 - 150    |
| Pendimethalin (Penoxaline)       | 0.0985      | 0.119      |               | ug/L |   | 121  | 50 - 150    |
| Phenanthrene                     | 0.0394      | 0.0460     |               | ug/L |   | 117  | 50 - 150    |
| Propachlor                       | 0.0492      | 0.0631     |               | ug/L |   | 128  | 50 - 150    |
| Pyrene                           | 0.0492      | 0.0633     |               | ug/L |   | 129  | 50 - 150    |
| Simazine                         | 0.0492      | 0.0623     |               | ug/L |   | 127  | 50 - 150    |
| Terbacil                         | 0.0985      | 0.126      |               | ug/L |   | 128  | 50 - 150    |
| Terbutylazine                    | 0.0985      | 0.129      |               | ug/L |   | 131  | 50 - 150    |
| Thiobencarb                      | 0.0985      | 0.127      |               | ug/L |   | 129  | 50 - 150    |
| trans-Nonachlor                  | 0.0246      | 0.0338     | J             | ug/L |   | 137  | 50 - 150    |
| Trifluralin                      | 0.0985      | 0.117      |               | ug/L |   | 118  | 50 - 150    |

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# QC Sample Results

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

Job ID: 380-168209-1  
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump2

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

Lab Sample ID: MRL 380-170954/20-A

Matrix: Water

Analysis Batch: 171145

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 170954

| Surrogate          | MRL<br>%Recovery | MRL<br>Qualifier | Limits   |
|--------------------|------------------|------------------|----------|
| 2-Nitro-m-xylene   | 96               |                  | 70 - 130 |
| Perylene-d12       | 93               |                  | 70 - 130 |
| Triphenylphosphate | 120              |                  | 70 - 130 |

Lab Sample ID: 380-168205-I-1-A MS

Matrix: Water

Analysis Batch: 171145

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 170954

| Analyte                          | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MS<br>Result | MS<br>Qualifier | Unit | D | %Rec | %Rec<br>Limits |
|----------------------------------|------------------|---------------------|----------------|--------------|-----------------|------|---|------|----------------|
| 1-Methylnaphthalene              | <0.098           |                     | 1.97           | 1.92         |                 | ug/L |   | 97   | 70 - 130       |
| 2,4'-DDD                         | <0.098           |                     | 1.97           | 2.02         |                 | ug/L |   | 102  | 70 - 130       |
| 2,4'-DDE                         | <0.098           |                     | 1.97           | 2.07         |                 | ug/L |   | 105  | 70 - 130       |
| 2,4'-DDT                         | <0.098           |                     | 1.97           | 2.02         |                 | ug/L |   | 102  | 70 - 130       |
| 2,4-Dinitrotoluene               | <0.098           |                     | 1.97           | 2.00         |                 | ug/L |   | 102  | 70 - 130       |
| 2,6-Dinitrotoluene               | <0.098           |                     | 1.97           | 2.10         |                 | ug/L |   | 107  | 70 - 130       |
| 2-Methylnaphthalene              | <0.098           |                     | 1.97           | 1.90         |                 | ug/L |   | 97   | 70 - 130       |
| 4,4'-DDD                         | <0.098           |                     | 1.97           | 2.03         |                 | ug/L |   | 103  | 70 - 130       |
| 4,4'-DDE                         | <0.098           |                     | 1.97           | 1.99         |                 | ug/L |   | 101  | 70 - 130       |
| 4,4'-DDT                         | <0.098           |                     | 1.97           | 2.05         |                 | ug/L |   | 104  | 70 - 130       |
| Acenaphthene                     | <0.098           |                     | 1.97           | 1.95         |                 | ug/L |   | 99   | 70 - 130       |
| Acenaphthylene                   | <0.098           |                     | 1.97           | 1.91         |                 | ug/L |   | 97   | 70 - 130       |
| Acetochlor                       | <0.098           |                     | 1.97           | 2.03         |                 | ug/L |   | 103  | 70 - 130       |
| Alachlor                         | <0.049           |                     | 1.97           | 2.22         |                 | ug/L |   | 113  | 70 - 130       |
| alpha-BHC                        | <0.098           |                     | 1.97           | 2.08         |                 | ug/L |   | 106  | 70 - 130       |
| alpha-Chlordane                  | <0.049           |                     | 1.97           | 1.96         |                 | ug/L |   | 98   | 70 - 130       |
| Anthracene                       | <0.020           |                     | 1.97           | 1.21         | F1              | ug/L |   | 61   | 70 - 130       |
| Atrazine                         | <0.049           |                     | 1.97           | 2.14         |                 | ug/L |   | 109  | 70 - 130       |
| Benz(a)anthracene                | <0.049           |                     | 1.97           | 1.88         |                 | ug/L |   | 95   | 70 - 130       |
| Benzo[a]pyrene                   | <0.020           |                     | 1.97           | 2.13         |                 | ug/L |   | 108  | 70 - 130       |
| Benzo[b]fluoranthene             | <0.020           |                     | 1.97           | 2.17         |                 | ug/L |   | 110  | 70 - 130       |
| Benzo[g,h,i]perylene             | <0.049           |                     | 1.97           | 2.16         |                 | ug/L |   | 110  | 70 - 130       |
| Benzo[k]fluoranthene             | <0.020           |                     | 1.97           | 2.14         |                 | ug/L |   | 109  | 70 - 130       |
| beta-BHC                         | <0.098           |                     | 1.97           | 2.17         |                 | ug/L |   | 110  | 70 - 130       |
| Bis(2-ethylhexyl) phthalate      | <0.59            |                     | 1.97           | 2.12         |                 | ug/L |   | 108  | 70 - 130       |
| Bromacil                         | <0.098           |                     | 1.97           | 2.23         |                 | ug/L |   | 109  | 70 - 130       |
| Butachlor                        | <0.049           |                     | 1.97           | 2.17         |                 | ug/L |   | 110  | 70 - 130       |
| Butylbenzylphthalate             | <0.49            |                     | 1.97           | 2.47         |                 | ug/L |   | 125  | 70 - 130       |
| Chlorobenzilate                  | <0.098           |                     | 1.97           | 2.13         |                 | ug/L |   | 108  | 70 - 130       |
| Chloroneb                        | <0.098           |                     | 1.97           | 1.98         |                 | ug/L |   | 100  | 70 - 130       |
| Chlorothalonil (Draconil, Bravo) | <0.098           |                     | 1.97           | 1.97         |                 | ug/L |   | 100  | 70 - 130       |
| Chlorpyrifos                     | <0.049           |                     | 1.97           | 1.98         |                 | ug/L |   | 101  | 70 - 130       |
| Chrysene                         | <0.020           |                     | 1.97           | 2.09         |                 | ug/L |   | 106  | 70 - 130       |
| delta-BHC                        | <0.098           |                     | 1.97           | 2.10         |                 | ug/L |   | 106  | 70 - 130       |
| Di(2-ethylhexyl)adipate          | <0.59            |                     | 1.97           | 2.30         |                 | ug/L |   | 117  | 70 - 130       |
| Dibenz(a,h)anthracene            | <0.049           |                     | 1.97           | 2.13         |                 | ug/L |   | 108  | 70 - 130       |
| Diclorvos (DDVP)                 | <0.049           |                     | 1.97           | 2.09         |                 | ug/L |   | 106  | 70 - 130       |
| Dieldrin                         | 0.042            |                     | 1.97           | 2.06         |                 | ug/L |   | 103  | 70 - 130       |
| Diethylphthalate                 | <0.49            |                     | 1.97           | 2.06         |                 | ug/L |   | 104  | 70 - 130       |

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-168209-1  
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump2

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

Lab Sample ID: 380-168205-I-1-A MS

Matrix: Water

Analysis Batch: 171145

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 170954

| Analyte                       | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|-------------------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Dimethylphthalate             | <0.49         |                  | 1.97        | 2.09      |              | ug/L |   | 106  | 70 - 130    |
| Di-n-butyl phthalate          | <0.98         |                  | 3.94        | 4.49      |              | ug/L |   | 114  | 70 - 130    |
| Di-n-octyl phthalate          | <0.098        |                  | 1.97        | 2.19      |              | ug/L |   | 111  | 70 - 130    |
| Endosulfan I (Alpha)          | <0.098        |                  | 1.97        | 2.05      |              | ug/L |   | 104  | 70 - 130    |
| Endosulfan II (Beta)          | <0.098        |                  | 1.97        | 2.12      |              | ug/L |   | 107  | 70 - 130    |
| Endosulfan sulfate            | <0.098        |                  | 1.97        | 1.95      |              | ug/L |   | 99   | 70 - 130    |
| Endrin                        | <0.0098       |                  | 1.97        | 2.20      |              | ug/L |   | 112  | 70 - 130    |
| Endrin aldehyde               | <0.098        |                  | 1.97        | 1.70      |              | ug/L |   | 86   | 60 - 130    |
| EPTC                          | <0.098        |                  | 1.97        | 2.05      |              | ug/L |   | 104  | 70 - 130    |
| Fluoranthene                  | <0.098        |                  | 1.97        | 2.15      |              | ug/L |   | 108  | 70 - 130    |
| Fluorene                      | <0.049        |                  | 1.97        | 2.12      |              | ug/L |   | 108  | 70 - 130    |
| gamma-Chlordane               | <0.049        |                  | 1.97        | 2.03      |              | ug/L |   | 102  | 70 - 130    |
| Heptachlor                    | <0.0098       |                  | 1.97        | 2.09      |              | ug/L |   | 106  | 70 - 130    |
| Heptachlor epoxide (isomer B) | 0.012         |                  | 1.97        | 2.13      |              | ug/L |   | 108  | 70 - 130    |
| Hexachlorobenzene             | <0.049        |                  | 1.97        | 2.01      |              | ug/L |   | 102  | 70 - 130    |
| Hexachlorocyclopentadiene     | <0.049        |                  | 1.97        | 1.97      |              | ug/L |   | 100  | 70 - 130    |
| Indeno[1,2,3-cd]pyrene        | <0.049        |                  | 1.97        | 2.26      |              | ug/L |   | 115  | 70 - 130    |
| Isophorone                    | <0.098        |                  | 1.97        | 1.94      |              | ug/L |   | 99   | 70 - 130    |
| Lindane                       | <0.0098       |                  | 1.97        | 2.18      |              | ug/L |   | 111  | 70 - 130    |
| Malathion                     | <0.098        |                  | 1.97        | 2.05      |              | ug/L |   | 104  | 70 - 130    |
| Methoxychlor                  | <0.049        |                  | 1.97        | 2.06      |              | ug/L |   | 104  | 70 - 130    |
| Metolachlor                   | <0.049        |                  | 1.97        | 2.08      |              | ug/L |   | 106  | 70 - 130    |
| Molinate                      | <0.098        |                  | 1.97        | 2.14      |              | ug/L |   | 109  | 70 - 130    |
| Naphthalene                   | <0.098        |                  | 1.97        | 1.82      |              | ug/L |   | 93   | 70 - 130    |
| Parathion                     | <0.098        |                  | 1.97        | 2.11      |              | ug/L |   | 107  | 70 - 130    |
| Pendimethalin (Penoxaline)    | <0.098        |                  | 1.97        | 2.12      |              | ug/L |   | 108  | 70 - 130    |
| Phenanthrene                  | <0.039        |                  | 1.97        | 2.04      |              | ug/L |   | 103  | 70 - 130    |
| Propachlor                    | <0.049        |                  | 1.97        | 2.29      |              | ug/L |   | 116  | 70 - 130    |
| Pyrene                        | <0.049        |                  | 1.97        | 2.06      |              | ug/L |   | 104  | 70 - 130    |
| Simazine                      | <0.049        |                  | 1.97        | 2.22      |              | ug/L |   | 113  | 70 - 130    |
| Terbacil                      | <0.098        |                  | 1.97        | 2.24      |              | ug/L |   | 114  | 70 - 130    |
| Terbutylazine                 | <0.098        |                  | 1.97        | 2.16      |              | ug/L |   | 110  | 70 - 130    |
| Thiobencarb                   | <0.098        |                  | 1.97        | 2.03      |              | ug/L |   | 103  | 70 - 130    |
| trans-Nonachlor               | <0.049        |                  | 1.97        | 2.11      |              | ug/L |   | 106  | 70 - 130    |
| Trifluralin                   | <0.098        |                  | 1.97        | 1.89      |              | ug/L |   | 96   | 70 - 130    |

| Surrogate          | MS %Recovery | MS Qualifier | Limits   |
|--------------------|--------------|--------------|----------|
| 2-Nitro-m-xylene   | 95           |              | 70 - 130 |
| Perylene-d12       | 101          |              | 70 - 130 |
| Triphenylphosphate | 106          |              | 70 - 130 |

Lab Sample ID: 380-168209-1 DU

Matrix: Drinking Water

Analysis Batch: 171145

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

Prep Type: Total/NA

Prep Batch: 170954

| Analyte             | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|---------------------|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| 1-Methylnaphthalene | <0.099        |                  | <0.098    |              | ug/L |   | NC  | 20        |
| 2,4'-DDD            | <0.099        |                  | <0.098    |              | ug/L |   | NC  | 20        |

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-168209-1  
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump2

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

Lab Sample ID: 380-168209-1 DU

Matrix: Drinking Water

Analysis Batch: 171145

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

Prep Type: Total/NA

Prep Batch: 170954

| Analyte                          | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | Limit |
|----------------------------------|---------------|------------------|-----------|--------------|------|---|-----|-------|
| 2,4'-DDE                         | <0.099        |                  | <0.098    |              | ug/L |   | NC  | 20    |
| 2,4'-DDT                         | <0.099        |                  | <0.098    |              | ug/L |   | NC  | 20    |
| 2,4-Dinitrotoluene               | <0.099        |                  | <0.098    |              | ug/L |   | NC  | 20    |
| 2,6-Dinitrotoluene               | <0.099        |                  | <0.098    |              | ug/L |   | NC  | 20    |
| 2-Methylnaphthalene              | <0.099        |                  | <0.098    |              | ug/L |   | NC  | 20    |
| 4,4'-DDD                         | <0.099        |                  | <0.098    |              | ug/L |   | NC  | 20    |
| 4,4'-DDE                         | <0.099        |                  | <0.098    |              | ug/L |   | NC  | 20    |
| 4,4'-DDT                         | <0.099        | ^3+              | <0.098    |              | ug/L |   | NC  | 20    |
| Acenaphthene                     | <0.099        |                  | <0.098    |              | ug/L |   | NC  | 20    |
| Acenaphthylene                   | <0.099        |                  | <0.098    |              | ug/L |   | NC  | 20    |
| Acetochlor                       | <0.099        |                  | <0.098    |              | ug/L |   | NC  | 20    |
| Alachlor                         | <0.049        |                  | <0.049    |              | ug/L |   | NC  | 20    |
| alpha-BHC                        | <0.099        |                  | <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        | ^3+              | <0.020    |              | ug/L |   | NC  | 20    |
| Benzo[b]fluoranthene             | <0.020        | ^3+              | <0.020    |              | ug/L |   | NC  | 20    |
| Benzo[g,h,i]perylene             | <0.049        |                  | <0.049    |              | ug/L |   | NC  | 20    |
| Benzo[k]fluoranthene             | <0.020        | ^3+              | <0.020    |              | ug/L |   | NC  | 20    |
| beta-BHC                         | <0.099        |                  | <0.098    |              | ug/L |   | NC  | 20    |
| Bis(2-ethylhexyl) phthalate      | <0.59         |                  | <0.59     |              | ug/L |   | NC  | 20    |
| Bromacil                         | <0.099        | ^3+              | <0.098    |              | ug/L |   | NC  | 20    |
| Butachlor                        | <0.049        |                  | <0.049    |              | ug/L |   | NC  | 20    |
| Butylbenzylphthalate             | <0.49         | ^3+              | <0.49     |              | ug/L |   | NC  | 20    |
| Chlorobenzilate                  | <0.099        |                  | <0.098    |              | ug/L |   | NC  | 20    |
| Chloroneb                        | <0.099        |                  | <0.098    |              | ug/L |   | NC  | 20    |
| Chlorothalonil (Draconil, Bravo) | <0.099        |                  | <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                        | <0.099        |                  | <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                         | <0.0099       | ^3+              | <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             | <0.99         |                  | <0.98     |              | ug/L |   | NC  | 20    |
| Di-n-octyl phthalate             | <0.099        |                  | <0.098    |              | ug/L |   | NC  | 20    |
| Endosulfan I (Alpha)             | <0.099        |                  | <0.098    |              | ug/L |   | NC  | 20    |
| Endosulfan II (Beta)             | <0.099        |                  | <0.098    |              | ug/L |   | NC  | 20    |
| Endosulfan sulfate               | <0.099        | ^3+              | <0.098    |              | ug/L |   | NC  | 20    |
| Endrin                           | <0.0099       |                  | <0.0098   |              | ug/L |   | NC  | 20    |
| Endrin aldehyde                  | <0.099        |                  | <0.098    |              | ug/L |   | NC  | 20    |
| EPTC                             | <0.099        |                  | <0.098    |              | ug/L |   | NC  | 20    |
| Fluoranthene                     | <0.099        |                  | <0.098    |              | ug/L |   | NC  | 20    |
| Fluorene                         | <0.049        |                  | <0.049    |              | ug/L |   | NC  | 20    |
| gamma-Chlordane                  | <0.049        |                  | <0.049    |              | ug/L |   | NC  | 20    |

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# QC Sample Results

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

Job ID: 380-168209-1  
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump2

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

Lab Sample ID: 380-168209-1 DU

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

Matrix: Drinking Water

Prep Type: Total/NA

Analysis Batch: 171145

Prep Batch: 170954

| Analyte                          | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | Limit |
|----------------------------------|---------------|------------------|-----------|--------------|------|---|-----|-------|
| Heptachlor                       | <0.0099       |                  | <0.0098   |              | ug/L |   | NC  | 20    |
| Heptachlor epoxide (isomer B)    | <0.0099       | ^3+              | <0.0098   |              | ug/L |   | NC  | 20    |
| Hexachlorobenzene                | <0.049        |                  | <0.049    |              | ug/L |   | NC  | 20    |
| Hexachlorocyclopentadiene        | <0.049        |                  | <0.049    |              | ug/L |   | NC  | 20    |
| Indeno[1,2,3-cd]pyrene           | <0.049        |                  | <0.049    |              | ug/L |   | NC  | 20    |
| Isophorone                       | <0.099        |                  | <0.098    |              | ug/L |   | NC  | 20    |
| Lindane                          | <0.0099       |                  | <0.0098   |              | ug/L |   | NC  | 20    |
| Malathion                        | <0.099        |                  | <0.098    |              | ug/L |   | NC  | 20    |
| Methoxychlor                     | <0.049        | ^3+              | <0.049    |              | ug/L |   | NC  | 20    |
| Metolachlor                      | <0.049        |                  | <0.049    |              | ug/L |   | NC  | 20    |
| Molinate                         | <0.099        |                  | <0.098    |              | ug/L |   | NC  | 20    |
| Naphthalene                      | <0.099        |                  | <0.098    |              | ug/L |   | NC  | 20    |
| Parathion                        | <0.099        |                  | <0.098    |              | ug/L |   | NC  | 20    |
| Pendimethalin (Penoxaline)       | <0.099        |                  | <0.098    |              | ug/L |   | NC  | 20    |
| Phenanthrene                     | <0.040        |                  | <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                         | <0.099        |                  | <0.098    |              | ug/L |   | NC  | 20    |
| Terbutylazine                    | <0.099        |                  | <0.098    |              | ug/L |   | NC  | 20    |
| Thiobencarb                      | <0.099        |                  | <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                      | <0.099        |                  | <0.098    |              | ug/L |   | NC  | 20    |

| Surrogate          | %Recovery | DU Qualifier | Limits   |
|--------------------|-----------|--------------|----------|
| 2-Nitro-m-xylene   | 94        |              | 70 - 130 |
| Perylene-d12       | 89        |              | 70 - 130 |
| Triphenylphosphate | 116       |              | 70 - 130 |

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

Lab Sample ID: MB 570-617934/1-A

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 623413

Prep Batch: 617934

| Tentatively Identified Compound | Est. Result | MB Qualifier | Unit | D | RT | CAS No. | Prepared       | Analyzed       | Dil Fac |
|---------------------------------|-------------|--------------|------|---|----|---------|----------------|----------------|---------|
| Tentatively Identified Compound | None        |              | ug/L |   |    | N/A     | 08/28/25 08:30 | 09/10/25 10:00 | 1       |

| Surrogate                   | %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|--------------|----------|----------------|----------------|---------|
| 2,4,6-Tribromophenol (Surr) | 78        |              | 33 - 139 | 08/28/25 08:30 | 09/10/25 10:00 | 1       |
| 2-Fluorobiphenyl (Surr)     | 79        |              | 33 - 126 | 08/28/25 08:30 | 09/10/25 10:00 | 1       |
| 2-Fluorophenol (Surr)       | 52        |              | 12 - 120 | 08/28/25 08:30 | 09/10/25 10:00 | 1       |
| Nitrobenzene-d5 (Surr)      | 87        |              | 36 - 120 | 08/28/25 08:30 | 09/10/25 10:00 | 1       |
| Phenol-d6 (Surr)            | 31        |              | 10 - 120 | 08/28/25 08:30 | 09/10/25 10:00 | 1       |
| p-Terphenyl-d14 (Surr)      | 79        |              | 47 - 131 | 08/28/25 08:30 | 09/10/25 10:00 | 1       |

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# QC Sample Results

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

Job ID: 380-168209-1  
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump2

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

Lab Sample ID: MB 570-617934/1-A

Matrix: Water

Analysis Batch: 619301

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 617934

| Analyte                | MB Result | MB Qualifier | RL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|-----------|--------------|------|------|---|----------------|----------------|---------|
| 1-Methylnaphthalene    | <0.20     |              | 0.20 | ug/L |   | 08/28/25 08:30 | 08/30/25 16:13 | 1       |
| 2-Methylnaphthalene    | <0.20     |              | 0.20 | ug/L |   | 08/28/25 08:30 | 08/30/25 16:13 | 1       |
| Acenaphthene           | <0.20     |              | 0.20 | ug/L |   | 08/28/25 08:30 | 08/30/25 16:13 | 1       |
| Acenaphthylene         | <0.20     |              | 0.20 | ug/L |   | 08/28/25 08:30 | 08/30/25 16:13 | 1       |
| Anthracene             | <0.20     |              | 0.20 | ug/L |   | 08/28/25 08:30 | 08/30/25 16:13 | 1       |
| Benzo[a]anthracene     | <0.20     |              | 0.20 | ug/L |   | 08/28/25 08:30 | 08/30/25 16:13 | 1       |
| Benzo[a]pyrene         | <0.20     |              | 0.20 | ug/L |   | 08/28/25 08:30 | 08/30/25 16:13 | 1       |
| Benzo[b]fluoranthene   | <0.20     |              | 0.20 | ug/L |   | 08/28/25 08:30 | 08/30/25 16:13 | 1       |
| Benzo[g,h,i]perylene   | <0.20     |              | 0.20 | ug/L |   | 08/28/25 08:30 | 08/30/25 16:13 | 1       |
| Benzo[k]fluoranthene   | <0.20     |              | 0.20 | ug/L |   | 08/28/25 08:30 | 08/30/25 16:13 | 1       |
| Chrysene               | <0.20     |              | 0.20 | ug/L |   | 08/28/25 08:30 | 08/30/25 16:13 | 1       |
| Dibenz(a,h)anthracene  | <0.20     |              | 0.20 | ug/L |   | 08/28/25 08:30 | 08/30/25 16:13 | 1       |
| Fluoranthene           | <0.20     |              | 0.20 | ug/L |   | 08/28/25 08:30 | 08/30/25 16:13 | 1       |
| Fluorene               | <0.20     |              | 0.20 | ug/L |   | 08/28/25 08:30 | 08/30/25 16:13 | 1       |
| Indeno[1,2,3-cd]pyrene | <0.20     |              | 0.20 | ug/L |   | 08/28/25 08:30 | 08/30/25 16:13 | 1       |
| Naphthalene            | <0.20     |              | 0.20 | ug/L |   | 08/28/25 08:30 | 08/30/25 16:13 | 1       |
| Phenanthrene           | <0.20     |              | 0.20 | ug/L |   | 08/28/25 08:30 | 08/30/25 16:13 | 1       |
| Pyrene                 | <0.20     |              | 0.20 | ug/L |   | 08/28/25 08:30 | 08/30/25 16:13 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 2,4,6-Tribromophenol (Surr) | 95           |              | 28 - 127 | 08/28/25 08:30 | 08/30/25 16:13 | 1       |
| 2-Fluorobiphenyl (Surr)     | 78           |              | 31 - 120 | 08/28/25 08:30 | 08/30/25 16:13 | 1       |
| 2-Fluorophenol (Surr)       | 53           |              | 17 - 120 | 08/28/25 08:30 | 08/30/25 16:13 | 1       |
| Nitrobenzene-d5 (Surr)      | 81           |              | 27 - 120 | 08/28/25 08:30 | 08/30/25 16:13 | 1       |
| Phenol-d6 (Surr)            | 32           |              | 10 - 120 | 08/28/25 08:30 | 08/30/25 16:13 | 1       |
| p-Terphenyl-d14 (Surr)      | 76           |              | 45 - 120 | 08/28/25 08:30 | 08/30/25 16:13 | 1       |

Lab Sample ID: LCS 570-617934/2-A

Matrix: Water

Analysis Batch: 619301

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 617934

| Analyte                | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|------------------------|-------------|------------|---------------|------|---|------|-------------|
| 1-Methylnaphthalene    | 20.0        | 16.3       |               | ug/L |   | 82   | 47 - 120    |
| 2-Methylnaphthalene    | 20.0        | 16.0       |               | ug/L |   | 80   | 43 - 120    |
| Acenaphthene           | 20.0        | 19.6       |               | ug/L |   | 98   | 60 - 132    |
| Acenaphthylene         | 20.0        | 20.3       |               | ug/L |   | 102  | 54 - 126    |
| Anthracene             | 20.0        | 19.4       |               | ug/L |   | 97   | 43 - 120    |
| Benzo[a]anthracene     | 20.0        | 19.2       |               | ug/L |   | 96   | 42 - 133    |
| Benzo[a]pyrene         | 20.0        | 20.6       |               | ug/L |   | 103  | 32 - 148    |
| Benzo[b]fluoranthene   | 20.0        | 20.1       |               | ug/L |   | 101  | 42 - 140    |
| Benzo[g,h,i]perylene   | 20.0        | 20.9       |               | ug/L |   | 104  | 1 - 195     |
| Benzo[k]fluoranthene   | 20.0        | 20.4       |               | ug/L |   | 102  | 25 - 146    |
| Chrysene               | 20.0        | 19.8       |               | ug/L |   | 99   | 44 - 140    |
| Dibenz(a,h)anthracene  | 20.0        | 21.6       |               | ug/L |   | 108  | 1 - 200     |
| Fluoranthene           | 20.0        | 20.2       |               | ug/L |   | 101  | 43 - 121    |
| Fluorene               | 20.0        | 20.1       |               | ug/L |   | 100  | 70 - 120    |
| Indeno[1,2,3-cd]pyrene | 20.0        | 19.7       |               | ug/L |   | 99   | 1 - 151     |
| Naphthalene            | 20.0        | 16.1       |               | ug/L |   | 81   | 36 - 120    |

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-168209-1  
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump2

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

Lab Sample ID: LCS 570-617934/2-A

Matrix: Water

Analysis Batch: 619301

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 617934

| Analyte      | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|--------------|-------------|------------|---------------|------|---|------|-------------|
| Phenanthrene | 20.0        | 19.4       |               | ug/L |   | 97   | 65 - 120    |
| Pyrene       | 20.0        | 19.5       |               | ug/L |   | 98   | 70 - 120    |

| Surrogate                   | LCS %Recovery | LCS Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 2,4,6-Tribromophenol (Surr) | 88            |               | 28 - 127 |
| 2-Fluorobiphenyl (Surr)     | 75            |               | 31 - 120 |
| 2-Fluorophenol (Surr)       | 53            |               | 17 - 120 |
| Nitrobenzene-d5 (Surr)      | 63            |               | 27 - 120 |
| Phenol-d6 (Surr)            | 34            |               | 10 - 120 |
| p-Terphenyl-d14 (Surr)      | 72            |               | 45 - 120 |

Lab Sample ID: LCSD 570-617934/3-A

Matrix: Water

Analysis Batch: 619301

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 617934

| Analyte                | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|------------------------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| 1-Methylnaphthalene    | 20.0        | 16.7        |                | ug/L |   | 84   | 47 - 120    | 3   | 20        |
| 2-Methylnaphthalene    | 20.0        | 16.6        |                | ug/L |   | 83   | 43 - 120    | 4   | 20        |
| Acenaphthene           | 20.0        | 20.4        |                | ug/L |   | 102  | 60 - 132    | 4   | 29        |
| Acenaphthylene         | 20.0        | 21.1        |                | ug/L |   | 106  | 54 - 126    | 4   | 45        |
| Anthracene             | 20.0        | 20.2        |                | ug/L |   | 101  | 43 - 120    | 4   | 40        |
| Benzo[a]anthracene     | 20.0        | 20.4        |                | ug/L |   | 102  | 42 - 133    | 6   | 32        |
| Benzo[a]pyrene         | 20.0        | 21.7        |                | ug/L |   | 108  | 32 - 148    | 5   | 43        |
| Benzo[b]fluoranthene   | 20.0        | 21.3        |                | ug/L |   | 106  | 42 - 140    | 6   | 43        |
| Benzo[g,h,i]perylene   | 20.0        | 22.2        |                | ug/L |   | 111  | 1 - 195     | 6   | 61        |
| Benzo[k]fluoranthene   | 20.0        | 21.0        |                | ug/L |   | 105  | 25 - 146    | 3   | 38        |
| Chrysene               | 20.0        | 20.8        |                | ug/L |   | 104  | 44 - 140    | 5   | 53        |
| Dibenz(a,h)anthracene  | 20.0        | 22.7        |                | ug/L |   | 114  | 1 - 200     | 5   | 75        |
| Fluoranthene           | 20.0        | 21.3        |                | ug/L |   | 106  | 43 - 121    | 5   | 40        |
| Fluorene               | 20.0        | 21.0        |                | ug/L |   | 105  | 70 - 120    | 4   | 23        |
| Indeno[1,2,3-cd]pyrene | 20.0        | 20.9        |                | ug/L |   | 104  | 1 - 151     | 6   | 60        |
| Naphthalene            | 20.0        | 17.1        |                | ug/L |   | 85   | 36 - 120    | 6   | 39        |
| Phenanthrene           | 20.0        | 20.4        |                | ug/L |   | 102  | 65 - 120    | 5   | 24        |
| Pyrene                 | 20.0        | 20.7        |                | ug/L |   | 104  | 70 - 120    | 6   | 30        |

| Surrogate                   | LCSD %Recovery | LCSD Qualifier | Limits   |
|-----------------------------|----------------|----------------|----------|
| 2,4,6-Tribromophenol (Surr) | 92             |                | 28 - 127 |
| 2-Fluorobiphenyl (Surr)     | 78             |                | 31 - 120 |
| 2-Fluorophenol (Surr)       | 53             |                | 17 - 120 |
| Nitrobenzene-d5 (Surr)      | 66             |                | 27 - 120 |
| Phenol-d6 (Surr)            | 34             |                | 10 - 120 |
| p-Terphenyl-d14 (Surr)      | 77             |                | 45 - 120 |

# QC Sample Results

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

Job ID: 380-168209-1  
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump2

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

Lab Sample ID: 380-168205-A-1-A MS

Matrix: Water

Analysis Batch: 619556

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 617934

| Analyte                | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|------------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| 1-Methylnaphthalene    | <0.19         |                  | 19.3        | 17.3      |              | ug/L |   | 90   | 36 - 120    |
| 2-Methylnaphthalene    | <0.19         |                  | 19.3        | 17.4      |              | ug/L |   | 90   | 32 - 124    |
| Acenaphthene           | <0.19         |                  | 19.3        | 19.7      |              | ug/L |   | 102  | 47 - 145    |
| Acenaphthylene         | <0.19         |                  | 19.3        | 20.1      |              | ug/L |   | 104  | 33 - 145    |
| Anthracene             | <0.19         |                  | 19.3        | 19.9      |              | ug/L |   | 103  | 27 - 133    |
| Benzo[a]anthracene     | <0.19         |                  | 19.3        | 21.2      |              | ug/L |   | 110  | 33 - 143    |
| Benzo[a]pyrene         | <0.19         |                  | 19.3        | 17.4      |              | ug/L |   | 90   | 17 - 163    |
| Benzo[b]fluoranthene   | <0.19         |                  | 19.3        | 17.9      |              | ug/L |   | 93   | 24 - 159    |
| Benzo[g,h,i]perylene   | <0.19         |                  | 19.3        | 17.4      |              | ug/L |   | 90   | 1 - 219     |
| Benzo[k]fluoranthene   | <0.19         |                  | 19.3        | 17.6      |              | ug/L |   | 91   | 11 - 162    |
| Chrysene               | <0.19         |                  | 19.3        | 20.4      |              | ug/L |   | 106  | 17 - 168    |
| Dibenz(a,h)anthracene  | <0.19         |                  | 19.3        | 17.9      |              | ug/L |   | 93   | 1 - 227     |
| Fluoranthene           | <0.19         |                  | 19.3        | 20.5      |              | ug/L |   | 106  | 26 - 137    |
| Fluorene               | <0.19         |                  | 19.3        | 20.6      |              | ug/L |   | 106  | 59 - 121    |
| Indeno[1,2,3-cd]pyrene | <0.19         |                  | 19.3        | 16.8      |              | ug/L |   | 87   | 1 - 171     |
| Naphthalene            | <0.19         |                  | 19.3        | 16.5      |              | ug/L |   | 86   | 21 - 133    |
| Phenanthrene           | <0.19         |                  | 19.3        | 19.5      |              | ug/L |   | 101  | 54 - 120    |
| Pyrene                 | <0.19         | F1               | 19.3        | 24.1      | F1           | ug/L |   | 125  | 52 - 120    |

| Surrogate                   | MS %Recovery | MS Qualifier | MS Limits |
|-----------------------------|--------------|--------------|-----------|
| 2,4,6-Tribromophenol (Surr) | 82           |              | 28 - 127  |
| 2-Fluorobiphenyl (Surr)     | 75           |              | 31 - 120  |
| 2-Fluorophenol (Surr)       | 59           |              | 17 - 120  |
| Nitrobenzene-d5 (Surr)      | 66           |              | 27 - 120  |
| Phenol-d6 (Surr)            | 39           |              | 10 - 120  |
| p-Terphenyl-d14 (Surr)      | 84           |              | 45 - 120  |

Lab Sample ID: 380-168205-A-1-B MSD

Matrix: Water

Analysis Batch: 619556

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 617934

| Analyte                | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|------------------------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| 1-Methylnaphthalene    | <0.19         |                  | 19.6        | 18.3       |               | ug/L |   | 93   | 36 - 120    | 5   | 30        |
| 2-Methylnaphthalene    | <0.19         |                  | 19.6        | 18.2       |               | ug/L |   | 93   | 32 - 124    | 5   | 30        |
| Acenaphthene           | <0.19         |                  | 19.6        | 21.2       |               | ug/L |   | 108  | 47 - 145    | 7   | 48        |
| Acenaphthylene         | <0.19         |                  | 19.6        | 21.8       |               | ug/L |   | 111  | 33 - 145    | 8   | 74        |
| Anthracene             | <0.19         |                  | 19.6        | 21.9       |               | ug/L |   | 112  | 27 - 133    | 9   | 66        |
| Benzo[a]anthracene     | <0.19         |                  | 19.6        | 22.5       |               | ug/L |   | 115  | 33 - 143    | 6   | 53        |
| Benzo[a]pyrene         | <0.19         |                  | 19.6        | 20.5       |               | ug/L |   | 104  | 17 - 163    | 16  | 72        |
| Benzo[b]fluoranthene   | <0.19         |                  | 19.6        | 20.5       |               | ug/L |   | 105  | 24 - 159    | 14  | 71        |
| Benzo[g,h,i]perylene   | <0.19         |                  | 19.6        | 21.7       |               | ug/L |   | 110  | 1 - 219     | 22  | 97        |
| Benzo[k]fluoranthene   | <0.19         |                  | 19.6        | 20.8       |               | ug/L |   | 106  | 11 - 162    | 17  | 63        |
| Chrysene               | <0.19         |                  | 19.6        | 22.1       |               | ug/L |   | 112  | 17 - 168    | 8   | 87        |
| Dibenz(a,h)anthracene  | <0.19         |                  | 19.6        | 22.1       |               | ug/L |   | 112  | 1 - 227     | 21  | 126       |
| Fluoranthene           | <0.19         |                  | 19.6        | 21.9       |               | ug/L |   | 111  | 26 - 137    | 6   | 66        |
| Fluorene               | <0.19         |                  | 19.6        | 21.7       |               | ug/L |   | 111  | 59 - 121    | 6   | 38        |
| Indeno[1,2,3-cd]pyrene | <0.19         |                  | 19.6        | 20.6       |               | ug/L |   | 105  | 1 - 171     | 20  | 99        |
| Naphthalene            | <0.19         |                  | 19.6        | 18.1       |               | ug/L |   | 92   | 21 - 133    | 9   | 65        |

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# QC Sample Results

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

Job ID: 380-168209-1  
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump2

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

Lab Sample ID: 380-168205-A-1-B MSD

Matrix: Water

Analysis Batch: 619556

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 617934

| Analyte      | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Phenanthrene | <0.19         |                  | 19.6        | 21.5       |               | ug/L |   | 109  | 54 - 120    | 10  | 39        |
| Pyrene       | <0.19         | F1               | 19.6        | 25.3       | F1            | ug/L |   | 129  | 52 - 120    | 5   | 49        |

| Surrogate                   | MSD %Recovery | MSD Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 2,4,6-Tribromophenol (Surr) | 87            |               | 28 - 127 |
| 2-Fluorobiphenyl (Surr)     | 83            |               | 31 - 120 |
| 2-Fluorophenol (Surr)       | 62            |               | 17 - 120 |
| Nitrobenzene-d5 (Surr)      | 72            |               | 27 - 120 |
| Phenol-d6 (Surr)            | 39            |               | 10 - 120 |
| p-Terphenyl-d14 (Surr)      | 83            |               | 45 - 120 |

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

Lab Sample ID: MB 570-619752/6

Matrix: Water

Analysis Batch: 619752

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte      | MB Result | MB Qualifier | RL | Unit | D | Prepared | Analyzed       | Dil Fac |
|--------------|-----------|--------------|----|------|---|----------|----------------|---------|
| GRO (C6-C10) | <10       |              | 10 | ug/L |   |          | 09/02/25 15:09 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 77           |              | 38 - 134 |          | 09/02/25 15:09 | 1       |

Lab Sample ID: LCS 570-619752/4

Matrix: Water

Analysis Batch: 619752

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                          | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------------------------------|-------------|------------|---------------|------|---|------|-------------|
| Gasoline Range Organics (C4-C13) | 400         | 357        |               | ug/L |   | 89   | 78 - 120    |

| Surrogate                   | LCS %Recovery | LCS Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 87            |               | 38 - 134 |

Lab Sample ID: LCSD 570-619752/5

Matrix: Water

Analysis Batch: 619752

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

| Analyte                          | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------------------------------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| Gasoline Range Organics (C4-C13) | 400         | 365         |                | ug/L |   | 91   | 78 - 120    | 2   | 10        |

| Surrogate                   | LCSD %Recovery | LCSD Qualifier | Limits   |
|-----------------------------|----------------|----------------|----------|
| 4-Bromofluorobenzene (Surr) | 88             |                | 38 - 134 |

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-168209-1  
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump2

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

Lab Sample ID: MRL 570-619752/3

Matrix: Water

Analysis Batch: 619752

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          | 8.68          | J             | ug/L |   | 87   | 50 - 150    |
| Surrogate                        | MRL %Recovery | MRL Qualifier | Limits        |      |   |      |             |
| 4-Bromofluorobenzene (Surr)      | 80            |               | 38 - 134      |      |   |      |             |

Lab Sample ID: 380-168205-C-1 MS

Matrix: Water

Analysis Batch: 619752

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         | 384       |              | ug/L |   | 96   | 68 - 122    |
| Surrogate                        | MS %Recovery  | MS Qualifier     | Limits      |           |              |      |   |      |             |
| 4-Bromofluorobenzene (Surr)      | 90            |                  | 38 - 134    |           |              |      |   |      |             |

Lab Sample ID: 380-168205-C-1 MSD

Matrix: Water

Analysis Batch: 619752

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         | 355        |               | ug/L | - | 89   | 68 - 122    | 8   | 18        |
| Surrogate                        | MSD %Recovery | MSD Qualifier    | Limits      |            |               |      |   |      |             |     |           |
| 4-Bromofluorobenzene (Surr)      | 87            |                  | 38 - 134    |            |               |      |   |      |             |     |           |

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

Lab Sample ID: MB 570-618766/1-A

Matrix: Water

Analysis Batch: 621987

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 618766

| Analyte                            | MB        | MB        | RL       | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|-----------|-----------|----------|------|---|----------------|----------------|---------|
|                                    | Result    | Qualifier |          |      |   |                |                |         |
| Diesel Range Organics (C10-C24)    | <25       |           | 25       | ug/L |   | 08/29/25 09:40 | 09/07/25 03:44 | 1       |
| Motor Oil Range Organics [C24-C36] | <25       |           | 25       | ug/L |   | 08/29/25 09:40 | 09/07/25 03:44 | 1       |
| C8-C18                             | <25       |           | 25       | ug/L |   | 08/29/25 09:40 | 09/07/25 03:44 | 1       |
| Surrogate                          | MB        | MB        | Limits   |      |   | Prepared       | Analyzed       | Dil Fac |
|                                    | %Recovery | Qualifier |          |      |   |                |                |         |
| n-Octacosane (Surr)                | 112       |           | 60 - 130 |      |   | 08/29/25 09:40 | 09/07/25 03:44 | 1       |

Lab Sample ID: LCS 570-618766/2-A

Matrix: Water

Analysis Batch: 621987

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 618766

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------|-------------|------------|---------------|------|---|------|-------------|
| C10-C28 | 2000        | 2010       |               | ug/L |   | 101  | 56 - 127    |

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# QC Sample Results

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

Job ID: 380-168209-1  
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump2

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

Lab Sample ID: LCS 570-618766/2-A

Matrix: Water

Analysis Batch: 621987

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 618766

|                     | LCS       | LCS       |          |
|---------------------|-----------|-----------|----------|
| Surrogate           | %Recovery | Qualifier | Limits   |
| n-Octacosane (Surr) | 101       |           | 60 - 130 |

Lab Sample ID: LCSD 570-618766/3-A

Matrix: Water

Analysis Batch: 621987

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 618766

|         |  | Spike | LCSD   | LCSD      |      |   |      |          |     | %Rec  | RPD |  |
|---------|--|-------|--------|-----------|------|---|------|----------|-----|-------|-----|--|
| Analyte |  | Added | Result | Qualifier | Unit | D | %Rec | Limits   | RPD | Limit |     |  |
| C10-C28 |  | 2000  | 2130   |           | ug/L |   | 106  | 56 - 127 | 6   | 23    |     |  |

|                     | LCSD      | LCSD      |          |
|---------------------|-----------|-----------|----------|
| Surrogate           | %Recovery | Qualifier | Limits   |
| n-Octacosane (Surr) | 103       |           | 60 - 130 |

Lab Sample ID: MRL 570-618766/4-A

Matrix: Water

Analysis Batch: 621987

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 618766

|         |  | Spike  | MRL    | MRL       |      |   |      |          |  | %Rec |  |  |
|---------|--|--------|--------|-----------|------|---|------|----------|--|------|--|--|
| Analyte |  | Added  | Result | Qualifier | Unit | D | %Rec | Limits   |  |      |  |  |
| C10-C28 |  | 0.0200 | 0.0221 | J         | mg/L |   | 111  | 50 - 150 |  |      |  |  |

|                     | MRL       | MRL       |          |
|---------------------|-----------|-----------|----------|
| Surrogate           | %Recovery | Qualifier | Limits   |
| n-Octacosane (Surr) | 87        |           | 60 - 130 |

Lab Sample ID: 380-168000-C-1-A MS

Matrix: Water

Analysis Batch: 621987

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 618766

|         | Sample | Sample    | Spike | MS     | MS        |      |   |      |          | %Rec |  |  |
|---------|--------|-----------|-------|--------|-----------|------|---|------|----------|------|--|--|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits   |      |  |  |
| C10-C28 | <26    |           | 2040  | 2350   |           | ug/L |   | 114  | 70 - 130 |      |  |  |

|                     | MS        | MS        |          |
|---------------------|-----------|-----------|----------|
| Surrogate           | %Recovery | Qualifier | Limits   |
| n-Octacosane (Surr) | 99        |           | 60 - 130 |

Lab Sample ID: 380-168000-C-1-B MSD

Matrix: Water

Analysis Batch: 621987

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 618766

|         | Sample | Sample    | Spike | MSD    | MSD       |      |   |      |          | %Rec | RPD   |  |
|---------|--------|-----------|-------|--------|-----------|------|---|------|----------|------|-------|--|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits   | RPD  | Limit |  |
| C10-C28 | <26    |           | 2050  | 2140   |           | ug/L |   | 103  | 70 - 130 | 10   | 20    |  |

|                     | MSD       | MSD       |          |
|---------------------|-----------|-----------|----------|
| Surrogate           | %Recovery | Qualifier | Limits   |
| n-Octacosane (Surr) | 111       |           | 60 - 130 |

# QC Association Summary

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

Job ID: 380-168209-1  
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump2

## GC/MS Semi VOA

### Prep Batch: 170954

| Lab Sample ID        | Client Sample ID                        | Prep Type | Matrix         | Method | Prep Batch |
|----------------------|-----------------------------------------|-----------|----------------|--------|------------|
| 380-168209-1         | AIEA GULCH WELLS PUMP 1 (331-201-TP071) | Total/NA  | Drinking Water | 525.2  |            |
| 380-168209-3         | AIEA GULCH WELLS PUMP 2 (331-202-TP072) | Total/NA  | Water          | 525.2  |            |
| MB 380-170954/19-A   | Method Blank                            | Total/NA  | Water          | 525.2  |            |
| LCS 380-170954/21-A  | Lab Control Sample                      | Total/NA  | Water          | 525.2  |            |
| LCSD 380-170954/22-A | Lab Control Sample Dup                  | Total/NA  | Water          | 525.2  |            |
| MRL 380-170954/20-A  | Lab Control Sample                      | Total/NA  | Water          | 525.2  |            |
| 380-168205-I-1-A MS  | Matrix Spike                            | Total/NA  | Water          | 525.2  |            |
| 380-168209-1 DU      | AIEA GULCH WELLS PUMP 1 (331-201-TP071) | Total/NA  | Drinking Water | 525.2  |            |

### Analysis Batch: 171145

| Lab Sample ID        | Client Sample ID                        | Prep Type | Matrix         | Method | Prep Batch |
|----------------------|-----------------------------------------|-----------|----------------|--------|------------|
| 380-168209-1         | AIEA GULCH WELLS PUMP 1 (331-201-TP071) | Total/NA  | Drinking Water | 525.2  | 170954     |
| 380-168209-3         | AIEA GULCH WELLS PUMP 2 (331-202-TP072) | Total/NA  | Water          | 525.2  | 170954     |
| MB 380-170954/19-A   | Method Blank                            | Total/NA  | Water          | 525.2  | 170954     |
| LCS 380-170954/21-A  | Lab Control Sample                      | Total/NA  | Water          | 525.2  | 170954     |
| LCSD 380-170954/22-A | Lab Control Sample Dup                  | Total/NA  | Water          | 525.2  | 170954     |
| MRL 380-170954/20-A  | Lab Control Sample                      | Total/NA  | Water          | 525.2  | 170954     |
| 380-168205-I-1-A MS  | Matrix Spike                            | Total/NA  | Water          | 525.2  | 170954     |
| 380-168209-1 DU      | AIEA GULCH WELLS PUMP 1 (331-201-TP071) | Total/NA  | Drinking Water | 525.2  | 170954     |

### Prep Batch: 617934

| Lab Sample ID        | Client Sample ID                        | Prep Type | Matrix         | Method | Prep Batch |
|----------------------|-----------------------------------------|-----------|----------------|--------|------------|
| 380-168209-1         | AIEA GULCH WELLS PUMP 1 (331-201-TP071) | Total/NA  | Drinking Water | 625.1  |            |
| 380-168209-3         | AIEA GULCH WELLS PUMP 2 (331-202-TP072) | Total/NA  | Water          | 625.1  |            |
| MB 570-617934/1-A    | Method Blank                            | Total/NA  | Water          | 625.1  |            |
| LCS 570-617934/2-A   | Lab Control Sample                      | Total/NA  | Water          | 625.1  |            |
| LCSD 570-617934/3-A  | Lab Control Sample Dup                  | Total/NA  | Water          | 625.1  |            |
| 380-168205-A-1-A MS  | Matrix Spike                            | Total/NA  | Water          | 625.1  |            |
| 380-168205-A-1-B MSD | Matrix Spike Duplicate                  | Total/NA  | Water          | 625.1  |            |

### Analysis Batch: 619301

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method    | Prep Batch |
|---------------------|------------------------|-----------|--------|-----------|------------|
| MB 570-617934/1-A   | Method Blank           | Total/NA  | Water  | 625.1 SIM | 617934     |
| LCS 570-617934/2-A  | Lab Control Sample     | Total/NA  | Water  | 625.1 SIM | 617934     |
| LCSD 570-617934/3-A | Lab Control Sample Dup | Total/NA  | Water  | 625.1 SIM | 617934     |

### Analysis Batch: 619556

| Lab Sample ID        | Client Sample ID                        | Prep Type | Matrix         | Method    | Prep Batch |
|----------------------|-----------------------------------------|-----------|----------------|-----------|------------|
| 380-168209-1         | AIEA GULCH WELLS PUMP 1 (331-201-TP071) | Total/NA  | Drinking Water | 625.1 SIM | 617934     |
| 380-168209-3         | AIEA GULCH WELLS PUMP 2 (331-202-TP072) | Total/NA  | Water          | 625.1 SIM | 617934     |
| 380-168205-A-1-A MS  | Matrix Spike                            | Total/NA  | Water          | 625.1 SIM | 617934     |
| 380-168205-A-1-B MSD | Matrix Spike Duplicate                  | Total/NA  | Water          | 625.1 SIM | 617934     |

### Analysis Batch: 623413

| Lab Sample ID     | Client Sample ID                        | Prep Type | Matrix         | Method | Prep Batch |
|-------------------|-----------------------------------------|-----------|----------------|--------|------------|
| 380-168209-1      | AIEA GULCH WELLS PUMP 1 (331-201-TP071) | Total/NA  | Drinking Water | 625.1  | 617934     |
| 380-168209-3      | AIEA GULCH WELLS PUMP 2 (331-202-TP072) | Total/NA  | Water          | 625.1  | 617934     |
| MB 570-617934/1-A | Method Blank                            | Total/NA  | Water          | 625.1  | 617934     |

## QC Association Summary

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

Job ID: 380-168209-1  
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump2

### GC VOA

#### Analysis Batch: 619752

| Lab Sample ID      | Client Sample ID                         | Prep Type | Matrix         | Method       | Prep Batch |
|--------------------|------------------------------------------|-----------|----------------|--------------|------------|
| 380-168209-1       | AIEA GULCH WELLS PUMP 1 (331-201-TP071)  | Total/NA  | Drinking Water | 8015B GRO LL |            |
| 380-168209-2       | TB: AIEA GULCH WELLS PUMP 1 (331-201-TPC | Total/NA  | Drinking Water | 8015B GRO LL |            |
| 380-168209-3       | AIEA GULCH WELLS PUMP 2 (331-202-TP072)  | Total/NA  | Water          | 8015B GRO LL |            |
| 380-168209-4       | TB: AIEA GULCH WELLS PUMP 2 (331-202-TPC | Total/NA  | Water          | 8015B GRO LL |            |
| MB 570-619752/6    | Method Blank                             | Total/NA  | Water          | 8015B GRO LL |            |
| LCS 570-619752/4   | Lab Control Sample                       | Total/NA  | Water          | 8015B GRO LL |            |
| LCSD 570-619752/5  | Lab Control Sample Dup                   | Total/NA  | Water          | 8015B GRO LL |            |
| MRL 570-619752/3   | Lab Control Sample                       | Total/NA  | Water          | 8015B GRO LL |            |
| 380-168205-C-1 MS  | Matrix Spike                             | Total/NA  | Water          | 8015B GRO LL |            |
| 380-168205-C-1 MSD | Matrix Spike Duplicate                   | Total/NA  | Water          | 8015B GRO LL |            |

### GC Semi VOA

#### Prep Batch: 618766

| Lab Sample ID        | Client Sample ID                        | Prep Type | Matrix         | Method | Prep Batch |
|----------------------|-----------------------------------------|-----------|----------------|--------|------------|
| 380-168209-1         | AIEA GULCH WELLS PUMP 1 (331-201-TP071) | Total/NA  | Drinking Water | 3510C  |            |
| 380-168209-3         | AIEA GULCH WELLS PUMP 2 (331-202-TP072) | Total/NA  | Water          | 3510C  |            |
| MB 570-618766/1-A    | Method Blank                            | Total/NA  | Water          | 3510C  |            |
| LCS 570-618766/2-A   | Lab Control Sample                      | Total/NA  | Water          | 3510C  |            |
| LCSD 570-618766/3-A  | Lab Control Sample Dup                  | Total/NA  | Water          | 3510C  |            |
| MRL 570-618766/4-A   | Lab Control Sample                      | Total/NA  | Water          | 3510C  |            |
| 380-168000-C-1-A MS  | Matrix Spike                            | Total/NA  | Water          | 3510C  |            |
| 380-168000-C-1-B MSD | Matrix Spike Duplicate                  | Total/NA  | Water          | 3510C  |            |

#### Analysis Batch: 621987

| Lab Sample ID        | Client Sample ID                        | Prep Type | Matrix         | Method | Prep Batch |
|----------------------|-----------------------------------------|-----------|----------------|--------|------------|
| 380-168209-1         | AIEA GULCH WELLS PUMP 1 (331-201-TP071) | Total/NA  | Drinking Water | 8015B  | 618766     |
| 380-168209-3         | AIEA GULCH WELLS PUMP 2 (331-202-TP072) | Total/NA  | Water          | 8015B  | 618766     |
| MB 570-618766/1-A    | Method Blank                            | Total/NA  | Water          | 8015B  | 618766     |
| LCS 570-618766/2-A   | Lab Control Sample                      | Total/NA  | Water          | 8015B  | 618766     |
| LCSD 570-618766/3-A  | Lab Control Sample Dup                  | Total/NA  | Water          | 8015B  | 618766     |
| MRL 570-618766/4-A   | Lab Control Sample                      | Total/NA  | Water          | 8015B  | 618766     |
| 380-168000-C-1-A MS  | Matrix Spike                            | Total/NA  | Water          | 8015B  | 618766     |
| 380-168000-C-1-B MSD | Matrix Spike Duplicate                  | Total/NA  | Water          | 8015B  | 618766     |

# Lab Chronicle

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

Job ID: 380-168209-1  
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump2

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

**Lab Sample ID: 380-168209-1**

**Date Collected: 08/25/25 11:32**

**Matrix: Drinking Water**

**Date Received: 08/27/25 10:04**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab       | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|-----------|----------------------|
| Total/NA  | Prep       | 525.2        |     |                 | 170954       | IQ42    | EA POM    | 08/27/25 14:18       |
| Total/NA  | Analysis   | 525.2        |     | 1               | 171145       | UPAC    | EA POM    | 08/28/25 15:38       |
| Total/NA  | Prep       | 625.1        |     |                 | 617934       | S4EA    | EET CAL 4 | 08/28/25 08:30       |
| Total/NA  | Analysis   | 625.1        |     | 1               | 623413       | PQS1    | EET CAL 4 | 09/10/25 13:21       |
| Total/NA  | Prep       | 625.1        |     |                 | 617934       | S4EA    | EET CAL 4 | 08/28/25 08:30       |
| Total/NA  | Analysis   | 625.1 SIM    |     | 1               | 619556       | PQS1    | EET CAL 4 | 09/02/25 11:56       |
| Total/NA  | Analysis   | 8015B GRO LL |     | 1               | 619752       | A9VE    | EET CAL 4 | 09/02/25 22:00       |
| Total/NA  | Prep       | 3510C        |     |                 | 618766       | TVD6    | EET CAL 4 | 08/29/25 09:41       |
| Total/NA  | Analysis   | 8015B        |     | 1               | 621987       | H6FE    | EET CAL 4 | 09/07/25 07:39       |

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

**Lab Sample ID: 380-168209-2**

**Date Collected: 08/25/25 11:32**

**Matrix: Drinking Water**

**Date Received: 08/27/25 10:04**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab       | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|-----------|----------------------|
| Total/NA  | Analysis   | 8015B GRO LL |     | 1               | 619752       | A9VE    | EET CAL 4 | 09/02/25 22:48       |

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

**Lab Sample ID: 380-168209-3**

**Date Collected: 08/25/25 11:50**

**Matrix: Water**

**Date Received: 08/27/25 10:04**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab       | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|-----------|----------------------|
| Total/NA  | Prep       | 525.2        |     |                 | 170954       | IQ42    | EA POM    | 08/27/25 14:18       |
| Total/NA  | Analysis   | 525.2        |     | 1               | 171145       | UPAC    | EA POM    | 08/28/25 16:18       |
| Total/NA  | Prep       | 625.1        |     |                 | 617934       | S4EA    | EET CAL 4 | 08/28/25 08:30       |
| Total/NA  | Analysis   | 625.1        |     | 1               | 623413       | PQS1    | EET CAL 4 | 09/10/25 13:43       |
| Total/NA  | Prep       | 625.1        |     |                 | 617934       | S4EA    | EET CAL 4 | 08/28/25 08:30       |
| Total/NA  | Analysis   | 625.1 SIM    |     | 1               | 619556       | PQS1    | EET CAL 4 | 09/02/25 12:18       |
| Total/NA  | Analysis   | 8015B GRO LL |     | 1               | 619752       | A9VE    | EET CAL 4 | 09/03/25 00:24       |
| Total/NA  | Prep       | 3510C        |     |                 | 618766       | TVD6    | EET CAL 4 | 08/29/25 09:41       |
| Total/NA  | Analysis   | 8015B        |     | 1               | 621987       | H6FE    | EET CAL 4 | 09/07/25 08:01       |

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

**Lab Sample ID: 380-168209-4**

**Date Collected: 08/25/25 11:50**

**Matrix: Water**

**Date Received: 08/27/25 10:04**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab       | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|-----------|----------------------|
| Total/NA  | Analysis   | 8015B GRO LL |     | 1               | 619752       | A9VE    | EET CAL 4 | 09/02/25 23:12       |

Eurofins Eaton Analytical Pomona

# Lab Chronicle

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

Job ID: 380-168209-1  
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump2

**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

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# Accreditation/Certification Summary

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

Job ID: 380-168209-1  
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump2

## Laboratory: Eurofins Eaton Analytical Pomona

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

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

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

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

# Accreditation/Certification Summary

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

Job ID: 380-168209-1  
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump2

## Laboratory: Eurofins Eaton Analytical Pomona (Continued)

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

| Authority                                                                                                                                                                                             | Program     | Identification Number | Expiration Date                  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|----------------------------------|
| The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification. |             |                       |                                  |
| Analysis Method                                                                                                                                                                                       | Prep Method | Matrix                | Analyte                          |
| 525.2                                                                                                                                                                                                 | 525.2       | Water                 | alpha-BHC                        |
| 525.2                                                                                                                                                                                                 | 525.2       | Water                 | alpha-Chlordane                  |
| 525.2                                                                                                                                                                                                 | 525.2       | Water                 | beta-BHC                         |
| 525.2                                                                                                                                                                                                 | 525.2       | Water                 | Chlorobenzilate                  |
| 525.2                                                                                                                                                                                                 | 525.2       | Water                 | Chloroneb                        |
| 525.2                                                                                                                                                                                                 | 525.2       | Water                 | Chlorothalonil (Draconil, Bravo) |
| 525.2                                                                                                                                                                                                 | 525.2       | Water                 | Chlorpyrifos                     |
| 525.2                                                                                                                                                                                                 | 525.2       | Water                 | delta-BHC                        |
| 525.2                                                                                                                                                                                                 | 525.2       | Water                 | Diclorvos (DDVP)                 |
| 525.2                                                                                                                                                                                                 | 525.2       | Water                 | Endosulfan I (Alpha)             |
| 525.2                                                                                                                                                                                                 | 525.2       | Water                 | Endosulfan II (Beta)             |
| 525.2                                                                                                                                                                                                 | 525.2       | Water                 | Endosulfan sulfate               |
| 525.2                                                                                                                                                                                                 | 525.2       | Water                 | Endrin aldehyde                  |
| 525.2                                                                                                                                                                                                 | 525.2       | Water                 | EPTC                             |
| 525.2                                                                                                                                                                                                 | 525.2       | Water                 | gamma-Chlordane                  |
| 525.2                                                                                                                                                                                                 | 525.2       | Water                 | Isophorone                       |
| 525.2                                                                                                                                                                                                 | 525.2       | Water                 | Malathion                        |
| 525.2                                                                                                                                                                                                 | 525.2       | Water                 | Parathion                        |
| 525.2                                                                                                                                                                                                 | 525.2       | Water                 | Pendimethalin (Penoxaline)       |
| 525.2                                                                                                                                                                                                 | 525.2       | Water                 | Terbacil                         |
| 525.2                                                                                                                                                                                                 | 525.2       | Water                 | Terbutylazine                    |
| 525.2                                                                                                                                                                                                 | 525.2       | Water                 | Total Permethrin (mixed isomers) |
| 525.2                                                                                                                                                                                                 | 525.2       | Water                 | trans-Nonachlor                  |

## Laboratory: Eurofins Calscience

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

| Authority    | Program                                 | Identification Number | Expiration Date |
|--------------|-----------------------------------------|-----------------------|-----------------|
| A2LA         | Dept. of Defense ELAP                   | 7296.01               | 11-30-26        |
| A2LA         | ISO/IEC 17025                           | 7296.01               | 11-30-26        |
| Alaska (UST) | State                                   | 25-005                | 03-02-26        |
| Arizona      | State                                   | AZ0830                | 11-16-25        |
| California   | Los Angeles County Sanitation Districts | 9257304               | 07-31-26        |
| California   | SCAQMD LAP                              | 17LA0919              | 11-30-25        |
| California   | State                                   | 3082                  | 07-31-26        |
| Kansas       | NELAP                                   | E-10420               | 07-31-26        |
| Nevada       | State                                   | CA00111               | 07-31-26        |
| Oregon       | NELAP                                   | 4175                  | 02-02-26        |
| USDA         | US Federal Programs                     | 525-23-159-97150      | 06-08-26        |
| Utah         | NELAP                                   | CA00111               | 02-28-26        |
| Washington   | State                                   | C916                  | 10-11-25        |

# Method Summary

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

Job ID: 380-168209-1  
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump2

| 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: 380-168209-1  
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump2

| Lab Sample ID | Client Sample ID                               | Matrix         | Collected      | Received       | PWSID Number |
|---------------|------------------------------------------------|----------------|----------------|----------------|--------------|
| 380-168209-1  | AIEA GULCH WELLS PUMP 1 (331-201-TP071)        | Drinking Water | 08/25/25 11:32 | 08/27/25 10:04 | HI0000331    |
| 380-168209-2  | TB: AIEA GULCH WELLS PUMP 1<br>(331-201-TP071) | Drinking Water | 08/25/25 11:32 | 08/27/25 10:04 |              |
| 380-168209-3  | AIEA GULCH WELLS PUMP 2 (331-202-TP072)        | Water          | 08/25/25 11:50 | 08/27/25 10:04 | HI0000331    |
| 380-168209-4  | TB: AIEA GULCH WELLS PUMP 2<br>(331-202-TP072) | Water          | 08/25/25 11:50 | 08/27/25 10:04 |              |

## Chain of Custody Record

|                                                                                           |  |                                                                                                                                                                                                                        |  |                                                                                                                                |  |                             |  |             |  |                              |  |                                                       |  |
|-------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------|--|-------------|--|------------------------------|--|-------------------------------------------------------|--|
| <b>Client Information</b>                                                                 |  | Lab PM:<br>Lopez, Maria                                                                                                                                                                                                |  | Carrier Tracking No(s):                                                                                                        |  | COC No:<br>380-28005-2757 1 |  |             |  |                              |  |                                                       |  |
| Client Contact:<br>Mr Kirk Iwamoto                                                        |  | Phone:<br>+1 808 748 5840                                                                                                                                                                                              |  | E-Mail:<br>Maria.Lopez@et.eurofins.com                                                                                         |  | Page:<br>Page 1 of 1        |  |             |  |                              |  |                                                       |  |
| Company:<br>City & County of Honolulu                                                     |  | PWSID:                                                                                                                                                                                                                 |  | State of Origin:                                                                                                               |  | Job #:                      |  |             |  |                              |  |                                                       |  |
| Address:<br>630 South Beretania Street Chemistry Lab                                      |  | Due Date Requested:                                                                                                                                                                                                    |  | <b>Analysis Requested</b>                                                                                                      |  |                             |  |             |  |                              |  |                                                       |  |
| City:<br>Honolulu                                                                         |  | TAT Requested (days):                                                                                                                                                                                                  |  |                                                                                                                                |  |                             |  |             |  |                              |  |                                                       |  |
| State, Zip:<br>HI, 96843                                                                  |  | Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                                                                                                                |  |                                                                                                                                |  |                             |  |             |  |                              |  |                                                       |  |
| Phone:<br>808-748-5840 (Tel)                                                              |  | PO #:<br>C20525101 exp 05312023                                                                                                                                                                                        |  |                                                                                                                                |  |                             |  |             |  |                              |  |                                                       |  |
| Email:<br>kiwamoto@hbws.org                                                               |  | WO #:                                                                                                                                                                                                                  |  |                                                                                                                                |  |                             |  |             |  |                              |  |                                                       |  |
| Project Name:<br>RED-HILL/HBWS Sites Event Desc: RUSH Weekly Red Hill                     |  | Project #:<br>38001111                                                                                                                                                                                                 |  | <b>Field Filled Sample (Yes or No)</b>                                                                                         |  |                             |  |             |  |                              |  |                                                       |  |
| Site:<br>Hawaii                                                                           |  | SSOW#:                                                                                                                                                                                                                 |  |                                                                                                                                |  |                             |  |             |  |                              |  |                                                       |  |
| Sample Identification                                                                     |  | Sample Date                                                                                                                                                                                                            |  |                                                                                                                                |  |                             |  | Sample Time |  | Sample Type (C=Comp, G=grab) |  | Matrix (Water, Seawater, Onshore/Off, BT-Tissue, Air) |  |
| Aiea Gulch Wells Pump 1                                                                   |  | 25-Aug-2025                                                                                                                                                                                                            |  |                                                                                                                                |  |                             |  | 1132        |  | G                            |  | Water                                                 |  |
| Aiea Gulch Wells Pump 1 (Matrix Spike)                                                    |  |                                                                                                                                                                                                                        |  |                                                                                                                                |  |                             |  |             |  |                              |  | Water                                                 |  |
| Aiea Gulch Wells Pump 1 (Matrix Spike Duplicate)                                          |  |                                                                                                                                                                                                                        |  |                                                                                                                                |  |                             |  | Water       |  |                              |  |                                                       |  |
| TB: Aiea Gulch Wells Pump 1                                                               |  | 25-Aug-2025                                                                                                                                                                                                            |  | 1132                                                                                                                           |  |                             |  | Water       |  |                              |  |                                                       |  |
| Aiea Gulch Wells Pump 2                                                                   |  | 25-Aug-2025                                                                                                                                                                                                            |  | 1150                                                                                                                           |  | G                           |  | Water       |  |                              |  |                                                       |  |
| Aiea Gulch Wells Pump 2 (Matrix Spike)                                                    |  |                                                                                                                                                                                                                        |  |                                                                                                                                |  |                             |  | Water       |  |                              |  |                                                       |  |
| Aiea Gulch Wells Pump 2 (Matrix Spike Duplicate)                                          |  |                                                                                                                                                                                                                        |  |                                                                                                                                |  |                             |  | Water       |  |                              |  |                                                       |  |
| TB: Aiea Gulch Wells Pump 2                                                               |  | 25-Aug-2025                                                                                                                                                                                                            |  | 1150                                                                                                                           |  |                             |  | Water       |  |                              |  |                                                       |  |
| Possible Hazard Identification                                                            |  | <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 |  | Special Instructions/QC Requirements:                                                                                          |  |                             |  |             |  |                              |  |                                                       |  |
| Deliverable Requested: I, II, III, IV, Other (specify)                                    |  |                                                                                                                                                                                                                        |  | Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For <input type="checkbox"/> Months |  |                             |  |             |  |                              |  |                                                       |  |
| Empty Kit Relinquished by                                                                 |  | Date:                                                                                                                                                                                                                  |  | Method of Shipment: <b>FED EX</b> 8838 7784 1460                                                                               |  |                             |  |             |  |                              |  |                                                       |  |
| Relinquished by                                                                           |  | Date/Time: 2208.2025                                                                                                                                                                                                   |  | Date/Time: 08/27/25 10:04                                                                                                      |  |                             |  |             |  |                              |  |                                                       |  |
| Relinquished by                                                                           |  | Date/Time:                                                                                                                                                                                                             |  | Date/Time:                                                                                                                     |  |                             |  |             |  |                              |  |                                                       |  |
| Custody Seals Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |  | Custody Seal No.                                                                                                                                                                                                       |  | Cooler Temperature(s) °C and Other Remarks: 751K (11.4°-0.0°) = 1.4° (2) 1.0°-0.0° = 1.0° - 1.0° Frozen                        |  |                             |  |             |  |                              |  |                                                       |  |

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

## Chain of Custody Record



Loc: 380

168209

[illegible]

## Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-168209-1

SDG Number: Weekly: Aiea Gulch Wells Pump 1/Pump2

**Login Number: 168209**

**List Number: 1**

**Creator: Segura, Ryan**

**List Source: Eurofins Eaton Analytical Pomona**

| Question                                                                         | Answer | Comment |
|----------------------------------------------------------------------------------|--------|---------|
| The coolers custody seal, if present, is intact.                                 | N/A    |         |
| Sample custody seals, if present, are intact.                                    | N/A    |         |
| Samples were received on ice.                                                    | True   |         |
| Cooler(s) Temperature is acceptable.                                             | True   |         |
| Cooler(s) Temperature is recorded.                                               | True   |         |
| COC is present.                                                                  | True   |         |
| COC is filled out in ink and is legible.                                         | True   |         |
| COC is filled out with all pertinent information.                                | True   |         |
| There are no discrepancies between the containers received and the COC.          | True   |         |
| Samples are received within Holding Time (excluding tests with immediate HTs)    | True   |         |
| Sample containers have legible labels.                                           | True   |         |
| Containers are not broken or leaking.                                            | True   |         |
| Sample collection date/times are provided.                                       | True   |         |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True   |         |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").  | True   |         |
| CIO4 headspace requirement met (>50% for CA, >30% for other states).             | True   |         |
| Samples do not require splitting or compositing.                                 | True   |         |
| Container provided by EEA                                                        | True   |         |

## Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-168209-1

SDG Number: Weekly: Aiea Gulch Wells Pump 1/Pump2

**Login Number: 168209**

**List Number: 2**

**Creator: Khana, Piyush**

**List Source: Eurofins Calscience**

**List Creation: 08/27/25 06:18 PM**

| Question                                                                                 | Answer | Comment                            |
|------------------------------------------------------------------------------------------|--------|------------------------------------|
| Radioactivity wasn't checked or is $\leq$ 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   | 1.9                                |
| COC is present.                                                                          | True   |                                    |
| COC is filled out in ink and legible.                                                    | True   |                                    |
| COC is filled out with all pertinent information.                                        | True   |                                    |
| Is the Field Sampler's name present on COC?                                              | N/A    | Received project as a subcontract. |
| There are no discrepancies between the containers received and the COC.                  | True   |                                    |
| Samples are received within Holding Time (excluding tests with immediate HTs)            | True   |                                    |
| Sample containers have legible labels.                                                   | True   |                                    |
| Containers are not broken or leaking.                                                    | True   |                                    |
| Sample collection date/times are provided.                                               | True   |                                    |
| Appropriate sample containers are used.                                                  | True   |                                    |
| Sample bottles are completely filled.                                                    | True   |                                    |
| Sample Preservation Verified.                                                            | True   |                                    |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs         | True   |                                    |
| Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4"). | True   |                                    |
| Multiphasic samples are not present.                                                     | True   |                                    |
| Samples do not require splitting or compositing.                                         | True   |                                    |
| Residual Chlorine Checked.                                                               | True   |                                    |