

# ANALYTICAL REPORT

## PREPARED FOR

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

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## JOB DESCRIPTION

RED-HILL  
Weekly: Moanalua Wells P1  
RUSH Weekly Red Hill

## JOB NUMBER

380-164439-1

# Eurofins Eaton Analytical Pomona

## Job Notes

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

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

## Compliance Statement

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

## Authorization



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

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## Definitions/Glossary

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

Job ID: 380-164439-1  
SDG: Weekly: Moanalua Wells P1

### Qualifiers

#### GC/MS Semi VOA

| Qualifier | Qualifier Description                                                                                          |
|-----------|----------------------------------------------------------------------------------------------------------------|
| F1        | MS and/or MSD recovery exceeds control limits.                                                                 |
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

#### GC/MS Semi VOA TICs

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

### Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|-------------------------------------------------------------------------------------------------------------|
| ☼              | Listed under the "D" column to designate that the result is reported on a dry weight basis                  |
| %R             | Percent Recovery                                                                                            |
| CFL            | Contains Free Liquid                                                                                        |
| CFU            | Colony Forming Unit                                                                                         |
| CNF            | Contains No Free Liquid                                                                                     |
| DER            | Duplicate Error Ratio (normalized absolute difference)                                                      |
| Dil Fac        | Dilution Factor                                                                                             |
| DL             | Detection Limit (DoD/DOE)                                                                                   |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC            | Decision Level Concentration (Radiochemistry)                                                               |
| EDL            | Estimated Detection Limit (Dioxin)                                                                          |
| LOD            | Limit of Detection (DoD/DOE)                                                                                |
| LOQ            | Limit of Quantitation (DoD/DOE)                                                                             |
| MCL            | EPA recommended "Maximum Contaminant Level"                                                                 |
| MDA            | Minimum Detectable Activity (Radiochemistry)                                                                |
| MDC            | Minimum Detectable Concentration (Radiochemistry)                                                           |
| MDL            | Method Detection Limit                                                                                      |
| ML             | Minimum Level (Dioxin)                                                                                      |
| MPN            | Most Probable Number                                                                                        |
| MQL            | Method Quantitation Limit                                                                                   |
| NC             | Not Calculated                                                                                              |
| ND             | Not Detected at the reporting limit (or MDL or EDL if shown)                                                |
| NEG            | Negative / Absent                                                                                           |
| POS            | Positive / Present                                                                                          |
| PQL            | Practical Quantitation Limit                                                                                |
| PRES           | Presumptive                                                                                                 |
| QC             | Quality Control                                                                                             |
| RER            | Relative Error Ratio (Radiochemistry)                                                                       |
| RL             | Reporting Limit or Requested Limit (Radiochemistry)                                                         |
| RPD            | Relative Percent Difference, a measure of the relative difference between two points                        |
| TEF            | Toxicity Equivalent Factor (Dioxin)                                                                         |
| TEQ            | Toxicity Equivalent Quotient (Dioxin)                                                                       |
| TNTC           | Too Numerous To Count                                                                                       |

# Case Narrative

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

Job ID: 380-164439-1

**Job ID: 380-164439-1**

**Eurofins Eaton Analytical Pomona**

## **Job Narrative 380-164439-1**

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 8/6/2025 9:34 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.4°C.

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

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

### **Gasoline Range Organics**

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

### **Diesel Range Organics**

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

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## Detection Summary

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

Job ID: 380-164439-1  
SDG: Weekly: Moanalua Wells P1

**Client Sample ID: MOANALUA WELLS P1 (331-223-TP202)**  
**PWSID Number: HI0000331**

**Lab Sample ID: 380-164439-1**

| Analyte  | Result | Qualifier | RL     | Unit | Dil Fac | D | Method | Prep Type |
|----------|--------|-----------|--------|------|---------|---|--------|-----------|
| Dieldrin | 0.019  |           | 0.0097 | ug/L | 1       |   | 525.2  | Total/NA  |

**Client Sample ID: TB: Moanalua Wells**

**Lab Sample ID: 380-164439-2**

No Detections.

This Detection Summary does not include radiochemical test results.

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# Client Sample Results

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

Job ID: 380-164439-1  
SDG: Weekly: Moanalua Wells P1

Client Sample ID: MOANALUA WELLS P1 (331-223-TP202)

Lab Sample ID: 380-164439-1

Date Collected: 08/04/25 09:48

Matrix: Drinking Water

Date Received: 08/06/25 09:34

PWSID Number: HI0000331

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

| Analyte                          | Result       | Qualifier | RL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------------------------------|--------------|-----------|--------|------|---|----------------|----------------|---------|
| 1-Methylnaphthalene              | <0.097       |           | 0.097  | ug/L |   | 08/07/25 09:12 | 08/08/25 13:08 | 1       |
| 2,4'-DDD                         | <0.097       |           | 0.097  | ug/L |   | 08/07/25 09:12 | 08/08/25 13:08 | 1       |
| 2,4'-DDE                         | <0.097       |           | 0.097  | ug/L |   | 08/07/25 09:12 | 08/08/25 13:08 | 1       |
| 2,4'-DDT                         | <0.097       |           | 0.097  | ug/L |   | 08/07/25 09:12 | 08/08/25 13:08 | 1       |
| 2,4-Dinitrotoluene               | <0.097       |           | 0.097  | ug/L |   | 08/07/25 09:12 | 08/08/25 13:08 | 1       |
| 2,6-Dinitrotoluene               | <0.097       |           | 0.097  | ug/L |   | 08/07/25 09:12 | 08/08/25 13:08 | 1       |
| 2-Methylnaphthalene              | <0.097       |           | 0.097  | ug/L |   | 08/07/25 09:12 | 08/08/25 13:08 | 1       |
| 4,4'-DDD                         | <0.097       |           | 0.097  | ug/L |   | 08/07/25 09:12 | 08/08/25 13:08 | 1       |
| 4,4'-DDE                         | <0.097       |           | 0.097  | ug/L |   | 08/07/25 09:12 | 08/08/25 13:08 | 1       |
| 4,4'-DDT                         | <0.097       |           | 0.097  | ug/L |   | 08/07/25 09:12 | 08/08/25 13:08 | 1       |
| Acenaphthene                     | <0.097       |           | 0.097  | ug/L |   | 08/07/25 09:12 | 08/08/25 13:08 | 1       |
| Acenaphthylene                   | <0.097       |           | 0.097  | ug/L |   | 08/07/25 09:12 | 08/08/25 13:08 | 1       |
| Acetochlor                       | <0.097       |           | 0.097  | ug/L |   | 08/07/25 09:12 | 08/08/25 13:08 | 1       |
| Alachlor                         | <0.049       |           | 0.049  | ug/L |   | 08/07/25 09:12 | 08/08/25 13:08 | 1       |
| alpha-BHC                        | <0.097       |           | 0.097  | ug/L |   | 08/07/25 09:12 | 08/08/25 13:08 | 1       |
| alpha-Chlordane                  | <0.049       |           | 0.049  | ug/L |   | 08/07/25 09:12 | 08/08/25 13:08 | 1       |
| Anthracene                       | <0.019       |           | 0.019  | ug/L |   | 08/07/25 09:12 | 08/08/25 13:08 | 1       |
| Atrazine                         | <0.049       |           | 0.049  | ug/L |   | 08/07/25 09:12 | 08/08/25 13:08 | 1       |
| Benz(a)anthracene                | <0.049       |           | 0.049  | ug/L |   | 08/07/25 09:12 | 08/08/25 13:08 | 1       |
| Benzo[a]pyrene                   | <0.019       |           | 0.019  | ug/L |   | 08/07/25 09:12 | 08/08/25 13:08 | 1       |
| Benzo[b]fluoranthene             | <0.019       |           | 0.019  | ug/L |   | 08/07/25 09:12 | 08/08/25 13:08 | 1       |
| Benzo[g,h,i]perylene             | <0.049       |           | 0.049  | ug/L |   | 08/07/25 09:12 | 08/08/25 13:08 | 1       |
| Benzo[k]fluoranthene             | <0.019       |           | 0.019  | ug/L |   | 08/07/25 09:12 | 08/08/25 13:08 | 1       |
| beta-BHC                         | <0.097       |           | 0.097  | ug/L |   | 08/07/25 09:12 | 08/08/25 13:08 | 1       |
| Bis(2-ethylhexyl) phthalate      | <0.58        |           | 0.58   | ug/L |   | 08/07/25 09:12 | 08/08/25 13:08 | 1       |
| Bromacil                         | <0.097       |           | 0.097  | ug/L |   | 08/07/25 09:12 | 08/08/25 13:08 | 1       |
| Butachlor                        | <0.049       |           | 0.049  | ug/L |   | 08/07/25 09:12 | 08/08/25 13:08 | 1       |
| Butylbenzylphthalate             | <0.49        |           | 0.49   | ug/L |   | 08/07/25 09:12 | 08/08/25 13:08 | 1       |
| Chlorobenzilate                  | <0.097       |           | 0.097  | ug/L |   | 08/07/25 09:12 | 08/08/25 13:08 | 1       |
| Chloroneb                        | <0.097       |           | 0.097  | ug/L |   | 08/07/25 09:12 | 08/08/25 13:08 | 1       |
| Chlorothalonil (Draconil, Bravo) | <0.097       |           | 0.097  | ug/L |   | 08/07/25 09:12 | 08/08/25 13:08 | 1       |
| Chlorpyrifos                     | <0.049       |           | 0.049  | ug/L |   | 08/07/25 09:12 | 08/08/25 13:08 | 1       |
| Chrysene                         | <0.019       |           | 0.019  | ug/L |   | 08/07/25 09:12 | 08/08/25 13:08 | 1       |
| delta-BHC                        | <0.097       |           | 0.097  | ug/L |   | 08/07/25 09:12 | 08/08/25 13:08 | 1       |
| Di(2-ethylhexyl)adipate          | <0.58        |           | 0.58   | ug/L |   | 08/07/25 09:12 | 08/08/25 13:08 | 1       |
| Dibenz(a,h)anthracene            | <0.049       |           | 0.049  | ug/L |   | 08/07/25 09:12 | 08/08/25 13:08 | 1       |
| Diclorvos (DDVP)                 | <0.049       |           | 0.049  | ug/L |   | 08/07/25 09:12 | 08/08/25 13:08 | 1       |
| <b>Dieldrin</b>                  | <b>0.019</b> |           | 0.0097 | ug/L |   | 08/07/25 09:12 | 08/08/25 13:08 | 1       |
| Diethylphthalate                 | <0.49        |           | 0.49   | ug/L |   | 08/07/25 09:12 | 08/08/25 13:08 | 1       |
| Dimethylphthalate                | <0.49        |           | 0.49   | ug/L |   | 08/07/25 09:12 | 08/08/25 13:08 | 1       |
| Di-n-butyl phthalate             | <0.97        |           | 0.97   | ug/L |   | 08/07/25 09:12 | 08/08/25 13:08 | 1       |
| Di-n-octyl phthalate             | <0.097       |           | 0.097  | ug/L |   | 08/07/25 09:12 | 08/08/25 13:08 | 1       |
| Endosulfan I (Alpha)             | <0.097       |           | 0.097  | ug/L |   | 08/07/25 09:12 | 08/08/25 13:08 | 1       |
| Endosulfan II (Beta)             | <0.097       |           | 0.097  | ug/L |   | 08/07/25 09:12 | 08/08/25 13:08 | 1       |
| Endosulfan sulfate               | <0.097       |           | 0.097  | ug/L |   | 08/07/25 09:12 | 08/08/25 13:08 | 1       |
| Endrin                           | <0.0097      |           | 0.0097 | ug/L |   | 08/07/25 09:12 | 08/08/25 13:08 | 1       |
| Endrin aldehyde                  | <0.097       |           | 0.097  | ug/L |   | 08/07/25 09:12 | 08/08/25 13:08 | 1       |
| EPTC                             | <0.097       |           | 0.097  | ug/L |   | 08/07/25 09:12 | 08/08/25 13:08 | 1       |
| Fluoranthene                     | <0.097       |           | 0.097  | ug/L |   | 08/07/25 09:12 | 08/08/25 13:08 | 1       |

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# Client Sample Results

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

Job ID: 380-164439-1  
SDG: Weekly: Moanalua Wells P1

Client Sample ID: MOANALUA WELLS P1 (331-223-TP202)

Lab Sample ID: 380-164439-1

Date Collected: 08/04/25 09:48

Matrix: Drinking Water

Date Received: 08/06/25 09:34

PWSID Number: HI0000331

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

| Analyte                          | Result  | Qualifier | RL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------------------------------|---------|-----------|--------|------|---|----------------|----------------|---------|
| Fluorene                         | <0.049  |           | 0.049  | ug/L |   | 08/07/25 09:12 | 08/08/25 13:08 | 1       |
| gamma-Chlordane                  | <0.049  |           | 0.049  | ug/L |   | 08/07/25 09:12 | 08/08/25 13:08 | 1       |
| Heptachlor                       | <0.0097 |           | 0.0097 | ug/L |   | 08/07/25 09:12 | 08/08/25 13:08 | 1       |
| Heptachlor epoxide (isomer B)    | <0.0097 |           | 0.0097 | ug/L |   | 08/07/25 09:12 | 08/08/25 13:08 | 1       |
| Hexachlorobenzene                | <0.049  |           | 0.049  | ug/L |   | 08/07/25 09:12 | 08/08/25 13:08 | 1       |
| Hexachlorocyclopentadiene        | <0.049  |           | 0.049  | ug/L |   | 08/07/25 09:12 | 08/08/25 13:08 | 1       |
| Indeno[1,2,3-cd]pyrene           | <0.049  |           | 0.049  | ug/L |   | 08/07/25 09:12 | 08/08/25 13:08 | 1       |
| Isophorone                       | <0.097  |           | 0.097  | ug/L |   | 08/07/25 09:12 | 08/08/25 13:08 | 1       |
| Lindane                          | <0.0097 |           | 0.0097 | ug/L |   | 08/07/25 09:12 | 08/08/25 13:08 | 1       |
| Malathion                        | <0.097  |           | 0.097  | ug/L |   | 08/07/25 09:12 | 08/08/25 13:08 | 1       |
| Methoxychlor                     | <0.049  |           | 0.049  | ug/L |   | 08/07/25 09:12 | 08/08/25 13:08 | 1       |
| Metolachlor                      | <0.049  |           | 0.049  | ug/L |   | 08/07/25 09:12 | 08/08/25 13:08 | 1       |
| Molinate                         | <0.097  |           | 0.097  | ug/L |   | 08/07/25 09:12 | 08/08/25 13:08 | 1       |
| Naphthalene                      | <0.097  |           | 0.097  | ug/L |   | 08/07/25 09:12 | 08/08/25 13:08 | 1       |
| Parathion                        | <0.097  |           | 0.097  | ug/L |   | 08/07/25 09:12 | 08/08/25 13:08 | 1       |
| Pendimethalin (Penoxaline)       | <0.097  |           | 0.097  | ug/L |   | 08/07/25 09:12 | 08/08/25 13:08 | 1       |
| Phenanthrene                     | <0.039  |           | 0.039  | ug/L |   | 08/07/25 09:12 | 08/08/25 13:08 | 1       |
| Propachlor                       | <0.049  |           | 0.049  | ug/L |   | 08/07/25 09:12 | 08/08/25 13:08 | 1       |
| Pyrene                           | <0.049  |           | 0.049  | ug/L |   | 08/07/25 09:12 | 08/08/25 13:08 | 1       |
| Simazine                         | <0.049  |           | 0.049  | ug/L |   | 08/07/25 09:12 | 08/08/25 13:08 | 1       |
| Terbacil                         | <0.097  |           | 0.097  | ug/L |   | 08/07/25 09:12 | 08/08/25 13:08 | 1       |
| Terbutylazine                    | <0.097  |           | 0.097  | ug/L |   | 08/07/25 09:12 | 08/08/25 13:08 | 1       |
| Thiobencarb                      | <0.097  |           | 0.097  | ug/L |   | 08/07/25 09:12 | 08/08/25 13:08 | 1       |
| Total Permethrin (mixed isomers) | <0.19   |           | 0.19   | ug/L |   | 08/07/25 09:12 | 08/08/25 13:08 | 1       |
| trans-Nonachlor                  | <0.049  |           | 0.049  | ug/L |   | 08/07/25 09:12 | 08/08/25 13:08 | 1       |
| Trifluralin                      | <0.097  |           | 0.097  | ug/L |   | 08/07/25 09:12 | 08/08/25 13:08 | 1       |

| Tentatively Identified Compound | Est. Result | Qualifier | Unit | D | RT | CAS No. | Prepared       | Analyzed       | Dil Fac |
|---------------------------------|-------------|-----------|------|---|----|---------|----------------|----------------|---------|
| Tentatively Identified Compound | None        |           | ug/L |   |    | N/A     | 08/07/25 09:12 | 08/08/25 13:08 | 1       |

| Surrogate          | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|--------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2-Nitro-m-xylene   | 95        |           | 70 - 130 | 08/07/25 09:12 | 08/08/25 13:08 | 1       |
| Perylene-d12       | 88        |           | 70 - 130 | 08/07/25 09:12 | 08/08/25 13:08 | 1       |
| Triphenylphosphate | 103       |           | 70 - 130 | 08/07/25 09:12 | 08/08/25 13:08 | 1       |

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

| Analyte               | Result | Qualifier | RL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------|--------|-----------|------|------|---|----------------|----------------|---------|
| 1-Methylnaphthalene   | <0.19  |           | 0.19 | ug/L |   | 08/07/25 04:49 | 08/13/25 16:16 | 1       |
| 2-Methylnaphthalene   | <0.19  |           | 0.19 | ug/L |   | 08/07/25 04:49 | 08/13/25 16:16 | 1       |
| Acenaphthene          | <0.19  |           | 0.19 | ug/L |   | 08/07/25 04:49 | 08/13/25 16:16 | 1       |
| Acenaphthylene        | <0.19  |           | 0.19 | ug/L |   | 08/07/25 04:49 | 08/13/25 16:16 | 1       |
| Anthracene            | <0.19  |           | 0.19 | ug/L |   | 08/07/25 04:49 | 08/13/25 16:16 | 1       |
| Benzo[a]anthracene    | <0.19  |           | 0.19 | ug/L |   | 08/07/25 04:49 | 08/13/25 16:16 | 1       |
| Benzo[a]pyrene        | <0.19  |           | 0.19 | ug/L |   | 08/07/25 04:49 | 08/13/25 16:16 | 1       |
| Benzo[b]fluoranthene  | <0.19  |           | 0.19 | ug/L |   | 08/07/25 04:49 | 08/13/25 16:16 | 1       |
| Benzo[g,h,i]perylene  | <0.19  |           | 0.19 | ug/L |   | 08/07/25 04:49 | 08/13/25 16:16 | 1       |
| Benzo[k]fluoranthene  | <0.19  |           | 0.19 | ug/L |   | 08/07/25 04:49 | 08/13/25 16:16 | 1       |
| Chrysene              | <0.19  |           | 0.19 | ug/L |   | 08/07/25 04:49 | 08/13/25 16:16 | 1       |
| Dibenz(a,h)anthracene | <0.19  |           | 0.19 | ug/L |   | 08/07/25 04:49 | 08/13/25 16:16 | 1       |
| Fluoranthene          | <0.19  |           | 0.19 | ug/L |   | 08/07/25 04:49 | 08/13/25 16:16 | 1       |

Eurofins Eaton Analytical Pomona



# Client Sample Results

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

Job ID: 380-164439-1  
SDG: Weekly: Moanalua Wells P1

Client Sample ID: MOANALUA WELLS P1 (331-223-TP202)

Lab Sample ID: 380-164439-1

Date Collected: 08/04/25 09:48

Matrix: Drinking Water

Date Received: 08/06/25 09:34

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 |
|------------------------|--------|-----------|------|------|---|----------------|----------------|---------|
| Fluorene               | <0.19  |           | 0.19 | ug/L |   | 08/07/25 04:49 | 08/13/25 16:16 | 1       |
| Indeno[1,2,3-cd]pyrene | <0.19  |           | 0.19 | ug/L |   | 08/07/25 04:49 | 08/13/25 16:16 | 1       |
| Naphthalene            | <0.19  |           | 0.19 | ug/L |   | 08/07/25 04:49 | 08/13/25 16:16 | 1       |
| Phenanthrene           | <0.19  |           | 0.19 | ug/L |   | 08/07/25 04:49 | 08/13/25 16:16 | 1       |
| Pyrene                 | <0.19  |           | 0.19 | ug/L |   | 08/07/25 04:49 | 08/13/25 16:16 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2,4,6-Tribromophenol (Surr) | 94        |           | 28 - 127 | 08/07/25 04:49 | 08/13/25 16:16 | 1       |
| 2-Fluorobiphenyl (Surr)     | 82        |           | 31 - 120 | 08/07/25 04:49 | 08/13/25 16:16 | 1       |
| 2-Fluorophenol (Surr)       | 37        |           | 17 - 120 | 08/07/25 04:49 | 08/13/25 16:16 | 1       |
| Nitrobenzene-d5 (Surr)      | 80        |           | 27 - 120 | 08/07/25 04:49 | 08/13/25 16:16 | 1       |
| Phenol-d6 (Surr)            | 25        |           | 10 - 120 | 08/07/25 04:49 | 08/13/25 16:16 | 1       |
| p-Terphenyl-d14 (Surr)      | 87        |           | 45 - 120 | 08/07/25 04:49 | 08/13/25 16:16 | 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 |
|---------------------------------|-------------|-----------|------|---|------|------------|----------------|----------------|---------|
| 3-Ethyl-2-methyl-1-heptene      | 13          | T J N     | ug/L |   | 2.42 | 19780-60-0 | 08/07/25 04:49 | 08/14/25 11:07 | 1       |
| 2-Hexene, 3,4,4-trimethyl-      | 11          | T J N     | ug/L |   | 2.63 | 53941-19-8 | 08/07/25 04:49 | 08/14/25 11:07 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2,4,6-Tribromophenol (Surr) | 73        |           | 33 - 139 | 08/07/25 04:49 | 08/14/25 11:07 | 1       |
| 2-Fluorobiphenyl (Surr)     | 81        |           | 33 - 126 | 08/07/25 04:49 | 08/14/25 11:07 | 1       |
| 2-Fluorophenol (Surr)       | 35        |           | 12 - 120 | 08/07/25 04:49 | 08/14/25 11:07 | 1       |
| Nitrobenzene-d5 (Surr)      | 75        |           | 36 - 120 | 08/07/25 04:49 | 08/14/25 11:07 | 1       |
| Phenol-d6 (Surr)            | 17        |           | 10 - 120 | 08/07/25 04:49 | 08/14/25 11:07 | 1       |
| p-Terphenyl-d14 (Surr)      | 85        |           | 47 - 131 | 08/07/25 04:49 | 08/14/25 11:07 | 1       |

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

| Analyte      | Result | Qualifier | RL | Unit | D | Prepared | Analyzed       | Dil Fac |
|--------------|--------|-----------|----|------|---|----------|----------------|---------|
| GRO (C6-C10) | <10    |           | 10 | ug/L |   |          | 08/16/25 15:02 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 81        |           | 38 - 134 |          | 08/16/25 15:02 | 1       |

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

| Analyte                            | Result | Qualifier | RL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|--------|-----------|----|------|---|----------------|----------------|---------|
| Diesel Range Organics (C10-C24)    | <25    |           | 25 | ug/L |   | 08/11/25 11:43 | 08/16/25 07:46 | 1       |
| Motor Oil Range Organics [C24-C36] | <25    |           | 25 | ug/L |   | 08/11/25 11:43 | 08/16/25 07:46 | 1       |
| C8-C18                             | <25    |           | 25 | ug/L |   | 08/11/25 11:43 | 08/16/25 07:46 | 1       |

| Surrogate           | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|-----------|----------|----------------|----------------|---------|
| n-Octacosane (Surr) | 118       |           | 60 - 130 | 08/11/25 11:43 | 08/16/25 07:46 | 1       |

Client Sample ID: TB: Moanalua Wells

Lab Sample ID: 380-164439-2

Date Collected: 08/04/25 09:48

Matrix: Water

Date Received: 08/06/25 09:34

## 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 |   |          | 08/16/25 19:54 | 1       |

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Client Sample Results

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

Job ID: 380-164439-1  
SDG: Weekly: Moanalua Wells P1

Client Sample ID: TB: Moanalua Wells

Lab Sample ID: 380-164439-2

Date Collected: 08/04/25 09:48

Matrix: Water

Date Received: 08/06/25 09:34

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 78        |           | 38 - 134 |          | 08/16/25 19:54 | 1       |

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

## Action Limit Summary

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

Job ID: 380-164439-1  
SDG: Weekly: Moanalua Wells P1

Client Sample ID: MOANALUA WELLS P1 (331-223-TP202)

Lab Sample ID: 380-164439-1

PWSID Number: HI0000331

### Compliance Check

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

| Analyte                       | Result  | Qualifier | Unit | EPAMCL | RL     | Method    | Prep Type |
|-------------------------------|---------|-----------|------|--------|--------|-----------|-----------|
|                               |         |           |      | Limit  |        |           |           |
| Alachlor                      | <0.049  |           | ug/L | 2      | 0.049  | 525.2     | Total/NA  |
| Atrazine                      | <0.049  |           | ug/L | 3      | 0.049  | 525.2     | Total/NA  |
| Benzo[a]pyrene                | <0.019  |           | ug/L | 0.2    | 0.019  | 525.2     | Total/NA  |
| Bis(2-ethylhexyl) phthalate   | <0.58   |           | ug/L | 6      | 0.58   | 525.2     | Total/NA  |
| Di(2-ethylhexyl)adipate       | <0.58   |           | ug/L | 400    | 0.58   | 525.2     | Total/NA  |
| Endrin                        | <0.0097 |           | ug/L | 2      | 0.0097 | 525.2     | Total/NA  |
| Heptachlor                    | <0.0097 |           | ug/L | 0.4    | 0.0097 | 525.2     | Total/NA  |
| Heptachlor epoxide (isomer B) | <0.0097 |           | ug/L | 0.2    | 0.0097 | 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                       | <0.0097 |           | ug/L | 0.2    | 0.0097 | 525.2     | Total/NA  |
| Methoxychlor                  | <0.049  |           | ug/L | 40     | 0.049  | 525.2     | Total/NA  |
| Simazine                      | <0.049  |           | ug/L | 4      | 0.049  | 525.2     | Total/NA  |
| Benzo[a]pyrene                | <0.19   |           | ug/L | 0.2    | 0.19   | 625.1 SIM | Total/NA  |

# Surrogate Summary

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

Job ID: 380-164439-1  
SDG: Weekly: Moanalua Wells P1

## 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) |  |  |  |  |
| 380-164439-1             | MOANALUA WELLS P1 (331-223-T | 95                                             | 88              | 103             |  |  |  |  |
| <b>Surrogate Legend</b>  |                              |                                                |                 |                 |  |  |  |  |
| 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) |  |  |  |  |
| 380-164489-B-1-A DU      | Duplicate          | 96                                             | 91              | 101             |  |  |  |  |
| 380-164489-B-3-A MS      | Matrix Spike       | 94                                             | 94              | 107             |  |  |  |  |
| LCS 380-167255/23-A      | Lab Control Sample | 86                                             | 97              | 115             |  |  |  |  |
| MB 380-167255/21-A       | Method Blank       | 96                                             | 86              | 100             |  |  |  |  |
| MRL 380-167255/22-A      | Lab Control Sample | 92                                             | 88              | 109             |  |  |  |  |
| <b>Surrogate Legend</b>  |                    |                                                |                 |                 |  |  |  |  |
| 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) |  |  |
| 380-164439-1                      | MOANALUA WELLS P1 (331-223-T | 73                                             | 81              | 35              | 75              | 17               | 85                 |  |  |
| <b>Surrogate Legend</b>           |                              |                                                |                 |                 |                 |                  |                    |  |  |
| 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) |  |  |
| MB 570-607569/1-A                 | Method Blank     | 72                                             | 88              | 49              | 86              | 30               | 86                 |  |  |
| <b>Surrogate Legend</b>           |                  |                                                |                 |                 |                 |                  |                    |  |  |
| TBP = 2,4,6-Tribromophenol (Surr) |                  |                                                |                 |                 |                 |                  |                    |  |  |
| FBP = 2-Fluorobiphenyl (Surr)     |                  |                                                |                 |                 |                 |                  |                    |  |  |
| 2FP = 2-Fluorophenol (Surr)       |                  |                                                |                 |                 |                 |                  |                    |  |  |
| NBZ = Nitrobenzene-d5 (Surr)      |                  |                                                |                 |                 |                 |                  |                    |  |  |

Eurofins Eaton Analytical Pomona

# Surrogate Summary

Client: City & County of Honolulu

Project/Site: RED-HILL

PHL6 = Phenol-d6 (Surr)

TPHd14 = p-Terphenyl-d14 (Surr)

Job ID: 380-164439-1

SDG: Weekly: Moanalua Wells P1

## 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) |
| 380-164439-1  | MOANALUA WELLS P1 (331-223-T | 94                                             | 82              | 37              | 80              | 25               | 87                 |

### 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) |
| 570-241517-D-1-A MS  | Matrix Spike           | 92                                             | 84              | 43              | 69              | 32               | 73                 |
| 570-241517-D-1-B MSD | Matrix Spike Duplicate | 99                                             | 95              | 49              | 78              | 35               | 77                 |
| LCS 570-607569/2-A   | Lab Control Sample     | 93                                             | 88              | 69              | 74              | 45               | 92                 |
| LCSD 570-607569/3-A  | Lab Control Sample Dup | 65                                             | 87              | 43              | 73              | 40               | 91                 |
| MB 570-607569/1-A    | Method Blank           | 83                                             | 78              | 54              | 81              | 35               | 86                 |

### 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)                               |  |  |  |  |  |
| 380-164439-1  | MOANALUA WELLS P1 (331-223-T | 81                                             |  |  |  |  |  |

### Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

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

Matrix: Water

Prep Type: Total/NA

| Lab Sample ID      | Client Sample ID       | Percent Surrogate Recovery (Acceptance Limits) |  |  |  |  |  |
|--------------------|------------------------|------------------------------------------------|--|--|--|--|--|
|                    |                        | BFB1<br>(38-134)                               |  |  |  |  |  |
| 380-164439-2       | TB: Moanalua Wells     | 78                                             |  |  |  |  |  |
| 380-164502-C-1 MS  | Matrix Spike           | 92                                             |  |  |  |  |  |
| 380-164502-C-1 MSD | Matrix Spike Duplicate | 91                                             |  |  |  |  |  |

Eurofins Eaton Analytical Pomona

## Surrogate Summary

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

Job ID: 380-164439-1  
SDG: Weekly: Moanalua Wells P1

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

Matrix: Water

Prep Type: Total/NA

| Percent Surrogate Recovery (Acceptance Limits) |                        |                  |
|------------------------------------------------|------------------------|------------------|
| Lab Sample ID                                  | Client Sample ID       | BFB1<br>(38-134) |
| LCS 570-612596/3                               | Lab Control Sample     | 92               |
| LCSD 570-612596/4                              | Lab Control Sample Dup | 91               |
| MB 570-612596/5                                | Method Blank           | 80               |
| MRL 570-612596/6                               | Lab Control Sample     | 83               |
| <b>Surrogate Legend</b>                        |                        |                  |
| 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) |
| 380-164439-1                                   | MOANALUA WELLS P1 (331-223-T | 118                |
| <b>Surrogate Legend</b>                        |                              |                    |
| 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) |
| 380-164502-B-1-A MS                            | Matrix Spike           | 117                |
| 380-164502-B-1-B MSD                           | Matrix Spike Duplicate | 121                |
| LCS 570-609844/2-A                             | Lab Control Sample     | 111                |
| LCSD 570-609844/3-A                            | Lab Control Sample Dup | 111                |
| MB 570-609844/1-A                              | Method Blank           | 109                |
| MRL 570-609844/4-A                             | Lab Control Sample     | 113                |
| <b>Surrogate Legend</b>                        |                        |                    |
| OTCSN = n-Octacosane (Surr)                    |                        |                    |

# QC Sample Results

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

Job ID: 380-164439-1  
SDG: Weekly: Moanalua Wells P1

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

Lab Sample ID: MB 380-167255/21-A  
Matrix: Water  
Analysis Batch: 167457

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 167255

| Analyte                          | MB Result | MB Qualifier | RL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------------------------------|-----------|--------------|--------|------|---|----------------|----------------|---------|
| 1-Methylnaphthalene              | <0.097    |              | 0.097  | ug/L |   | 08/07/25 09:12 | 08/08/25 10:02 | 1       |
| 2,4'-DDD                         | <0.097    |              | 0.097  | ug/L |   | 08/07/25 09:12 | 08/08/25 10:02 | 1       |
| 2,4'-DDE                         | <0.097    |              | 0.097  | ug/L |   | 08/07/25 09:12 | 08/08/25 10:02 | 1       |
| 2,4'-DDT                         | <0.097    |              | 0.097  | ug/L |   | 08/07/25 09:12 | 08/08/25 10:02 | 1       |
| 2,4-Dinitrotoluene               | <0.097    |              | 0.097  | ug/L |   | 08/07/25 09:12 | 08/08/25 10:02 | 1       |
| 2,6-Dinitrotoluene               | <0.097    |              | 0.097  | ug/L |   | 08/07/25 09:12 | 08/08/25 10:02 | 1       |
| 2-Methylnaphthalene              | <0.097    |              | 0.097  | ug/L |   | 08/07/25 09:12 | 08/08/25 10:02 | 1       |
| 4,4'-DDD                         | <0.097    |              | 0.097  | ug/L |   | 08/07/25 09:12 | 08/08/25 10:02 | 1       |
| 4,4'-DDE                         | <0.097    |              | 0.097  | ug/L |   | 08/07/25 09:12 | 08/08/25 10:02 | 1       |
| 4,4'-DDT                         | <0.097    |              | 0.097  | ug/L |   | 08/07/25 09:12 | 08/08/25 10:02 | 1       |
| Acenaphthene                     | <0.097    |              | 0.097  | ug/L |   | 08/07/25 09:12 | 08/08/25 10:02 | 1       |
| Acenaphthylene                   | <0.097    |              | 0.097  | ug/L |   | 08/07/25 09:12 | 08/08/25 10:02 | 1       |
| Acetochlor                       | <0.097    |              | 0.097  | ug/L |   | 08/07/25 09:12 | 08/08/25 10:02 | 1       |
| Alachlor                         | <0.049    |              | 0.049  | ug/L |   | 08/07/25 09:12 | 08/08/25 10:02 | 1       |
| alpha-BHC                        | <0.097    |              | 0.097  | ug/L |   | 08/07/25 09:12 | 08/08/25 10:02 | 1       |
| alpha-Chlordane                  | <0.049    |              | 0.049  | ug/L |   | 08/07/25 09:12 | 08/08/25 10:02 | 1       |
| Anthracene                       | <0.019    |              | 0.019  | ug/L |   | 08/07/25 09:12 | 08/08/25 10:02 | 1       |
| Atrazine                         | <0.049    |              | 0.049  | ug/L |   | 08/07/25 09:12 | 08/08/25 10:02 | 1       |
| Benz(a)anthracene                | <0.049    |              | 0.049  | ug/L |   | 08/07/25 09:12 | 08/08/25 10:02 | 1       |
| Benzo[a]pyrene                   | <0.019    |              | 0.019  | ug/L |   | 08/07/25 09:12 | 08/08/25 10:02 | 1       |
| Benzo[b]fluoranthene             | <0.019    |              | 0.019  | ug/L |   | 08/07/25 09:12 | 08/08/25 10:02 | 1       |
| Benzo[g,h,i]perylene             | <0.049    |              | 0.049  | ug/L |   | 08/07/25 09:12 | 08/08/25 10:02 | 1       |
| Benzo[k]fluoranthene             | <0.019    |              | 0.019  | ug/L |   | 08/07/25 09:12 | 08/08/25 10:02 | 1       |
| beta-BHC                         | <0.097    |              | 0.097  | ug/L |   | 08/07/25 09:12 | 08/08/25 10:02 | 1       |
| Bis(2-ethylhexyl) phthalate      | <0.58     |              | 0.58   | ug/L |   | 08/07/25 09:12 | 08/08/25 10:02 | 1       |
| Bromacil                         | <0.097    |              | 0.097  | ug/L |   | 08/07/25 09:12 | 08/08/25 10:02 | 1       |
| Butachlor                        | <0.049    |              | 0.049  | ug/L |   | 08/07/25 09:12 | 08/08/25 10:02 | 1       |
| Butylbenzylphthalate             | <0.49     |              | 0.49   | ug/L |   | 08/07/25 09:12 | 08/08/25 10:02 | 1       |
| Chlorobenzilate                  | <0.097    |              | 0.097  | ug/L |   | 08/07/25 09:12 | 08/08/25 10:02 | 1       |
| Chloroneb                        | <0.097    |              | 0.097  | ug/L |   | 08/07/25 09:12 | 08/08/25 10:02 | 1       |
| Chlorothalonil (Draconil, Bravo) | <0.097    |              | 0.097  | ug/L |   | 08/07/25 09:12 | 08/08/25 10:02 | 1       |
| Chlorpyrifos                     | <0.049    |              | 0.049  | ug/L |   | 08/07/25 09:12 | 08/08/25 10:02 | 1       |
| Chrysene                         | <0.019    |              | 0.019  | ug/L |   | 08/07/25 09:12 | 08/08/25 10:02 | 1       |
| delta-BHC                        | <0.097    |              | 0.097  | ug/L |   | 08/07/25 09:12 | 08/08/25 10:02 | 1       |
| Di(2-ethylhexyl)adipate          | <0.58     |              | 0.58   | ug/L |   | 08/07/25 09:12 | 08/08/25 10:02 | 1       |
| Dibenz(a,h)anthracene            | <0.049    |              | 0.049  | ug/L |   | 08/07/25 09:12 | 08/08/25 10:02 | 1       |
| Diclorvos (DDVP)                 | <0.049    |              | 0.049  | ug/L |   | 08/07/25 09:12 | 08/08/25 10:02 | 1       |
| Dieldrin                         | <0.0097   |              | 0.0097 | ug/L |   | 08/07/25 09:12 | 08/08/25 10:02 | 1       |
| Diethylphthalate                 | <0.49     |              | 0.49   | ug/L |   | 08/07/25 09:12 | 08/08/25 10:02 | 1       |
| Dimethylphthalate                | <0.49     |              | 0.49   | ug/L |   | 08/07/25 09:12 | 08/08/25 10:02 | 1       |
| Di-n-butyl phthalate             | <0.97     |              | 0.97   | ug/L |   | 08/07/25 09:12 | 08/08/25 10:02 | 1       |
| Di-n-octyl phthalate             | <0.097    |              | 0.097  | ug/L |   | 08/07/25 09:12 | 08/08/25 10:02 | 1       |
| Endosulfan I (Alpha)             | <0.097    |              | 0.097  | ug/L |   | 08/07/25 09:12 | 08/08/25 10:02 | 1       |
| Endosulfan II (Beta)             | <0.097    |              | 0.097  | ug/L |   | 08/07/25 09:12 | 08/08/25 10:02 | 1       |
| Endosulfan sulfate               | <0.097    |              | 0.097  | ug/L |   | 08/07/25 09:12 | 08/08/25 10:02 | 1       |
| Endrin                           | <0.0097   |              | 0.0097 | ug/L |   | 08/07/25 09:12 | 08/08/25 10:02 | 1       |
| Endrin aldehyde                  | <0.097    |              | 0.097  | ug/L |   | 08/07/25 09:12 | 08/08/25 10:02 | 1       |
| EPTC                             | <0.097    |              | 0.097  | ug/L |   | 08/07/25 09:12 | 08/08/25 10:02 | 1       |

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-164439-1  
SDG: Weekly: Moanalua Wells P1

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

Lab Sample ID: MB 380-167255/21-A

Matrix: Water

Analysis Batch: 167457

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 167255

| Analyte                          | MB Result | MB Qualifier | RL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------------------------------|-----------|--------------|--------|------|---|----------------|----------------|---------|
| Fluoranthene                     | <0.097    |              | 0.097  | ug/L |   | 08/07/25 09:12 | 08/08/25 10:02 | 1       |
| Fluorene                         | <0.049    |              | 0.049  | ug/L |   | 08/07/25 09:12 | 08/08/25 10:02 | 1       |
| gamma-Chlordane                  | <0.049    |              | 0.049  | ug/L |   | 08/07/25 09:12 | 08/08/25 10:02 | 1       |
| Heptachlor                       | <0.0097   |              | 0.0097 | ug/L |   | 08/07/25 09:12 | 08/08/25 10:02 | 1       |
| Heptachlor epoxide (isomer B)    | <0.0097   |              | 0.0097 | ug/L |   | 08/07/25 09:12 | 08/08/25 10:02 | 1       |
| Hexachlorobenzene                | <0.049    |              | 0.049  | ug/L |   | 08/07/25 09:12 | 08/08/25 10:02 | 1       |
| Hexachlorocyclopentadiene        | <0.049    |              | 0.049  | ug/L |   | 08/07/25 09:12 | 08/08/25 10:02 | 1       |
| Indeno[1,2,3-cd]pyrene           | <0.049    |              | 0.049  | ug/L |   | 08/07/25 09:12 | 08/08/25 10:02 | 1       |
| Isophorone                       | <0.097    |              | 0.097  | ug/L |   | 08/07/25 09:12 | 08/08/25 10:02 | 1       |
| Lindane                          | <0.0097   |              | 0.0097 | ug/L |   | 08/07/25 09:12 | 08/08/25 10:02 | 1       |
| Malathion                        | <0.097    |              | 0.097  | ug/L |   | 08/07/25 09:12 | 08/08/25 10:02 | 1       |
| Methoxychlor                     | <0.049    |              | 0.049  | ug/L |   | 08/07/25 09:12 | 08/08/25 10:02 | 1       |
| Metolachlor                      | <0.049    |              | 0.049  | ug/L |   | 08/07/25 09:12 | 08/08/25 10:02 | 1       |
| Molinate                         | <0.097    |              | 0.097  | ug/L |   | 08/07/25 09:12 | 08/08/25 10:02 | 1       |
| Naphthalene                      | <0.097    |              | 0.097  | ug/L |   | 08/07/25 09:12 | 08/08/25 10:02 | 1       |
| Parathion                        | <0.097    |              | 0.097  | ug/L |   | 08/07/25 09:12 | 08/08/25 10:02 | 1       |
| Pendimethalin (Penoxaline)       | <0.097    |              | 0.097  | ug/L |   | 08/07/25 09:12 | 08/08/25 10:02 | 1       |
| Phenanthrene                     | <0.039    |              | 0.039  | ug/L |   | 08/07/25 09:12 | 08/08/25 10:02 | 1       |
| Propachlor                       | <0.049    |              | 0.049  | ug/L |   | 08/07/25 09:12 | 08/08/25 10:02 | 1       |
| Pyrene                           | <0.049    |              | 0.049  | ug/L |   | 08/07/25 09:12 | 08/08/25 10:02 | 1       |
| Simazine                         | <0.049    |              | 0.049  | ug/L |   | 08/07/25 09:12 | 08/08/25 10:02 | 1       |
| Terbacil                         | <0.097    |              | 0.097  | ug/L |   | 08/07/25 09:12 | 08/08/25 10:02 | 1       |
| Terbutylazine                    | <0.097    |              | 0.097  | ug/L |   | 08/07/25 09:12 | 08/08/25 10:02 | 1       |
| Thiobencarb                      | <0.097    |              | 0.097  | ug/L |   | 08/07/25 09:12 | 08/08/25 10:02 | 1       |
| Total Permethrin (mixed isomers) | <0.19     |              | 0.19   | ug/L |   | 08/07/25 09:12 | 08/08/25 10:02 | 1       |
| trans-Nonachlor                  | <0.049    |              | 0.049  | ug/L |   | 08/07/25 09:12 | 08/08/25 10:02 | 1       |
| Trifluralin                      | <0.097    |              | 0.097  | ug/L |   | 08/07/25 09:12 | 08/08/25 10:02 | 1       |

| Tentatively Identified Compound | MB Est. Result | MB Qualifier | Unit | D | RT    | CAS No.  | Prepared       | Analyzed       | Dil Fac |
|---------------------------------|----------------|--------------|------|---|-------|----------|----------------|----------------|---------|
| Unknown                         | 0.500          | T J          | ug/L |   | 2.55  | N/A      | 08/07/25 09:12 | 08/08/25 10:02 | 1       |
| Decane                          | 2.04           | T J N        | ug/L |   | 2.72  | 124-18-5 | 08/07/25 09:12 | 08/08/25 10:02 | 1       |
| Phenol, p-tert-butyl-           | 0.838          | T J N        | ug/L |   | 3.80  | 98-54-4  | 08/07/25 09:12 | 08/08/25 10:02 | 1       |
| 9-Octadecenamamide, (Z)-        | 1.89           | T J N        | ug/L |   | 7.80  | 301-02-0 | 08/07/25 09:12 | 08/08/25 10:02 | 1       |
| Unknown                         | 1.10           | T J          | ug/L |   | 15.38 | N/A      | 08/07/25 09:12 | 08/08/25 10:02 | 1       |

| Surrogate          | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|--------------------|--------------|--------------|----------|----------------|----------------|---------|
| 2-Nitro-m-xylene   | 96           |              | 70 - 130 | 08/07/25 09:12 | 08/08/25 10:02 | 1       |
| Perylene-d12       | 86           |              | 70 - 130 | 08/07/25 09:12 | 08/08/25 10:02 | 1       |
| Triphenylphosphate | 100          |              | 70 - 130 | 08/07/25 09:12 | 08/08/25 10:02 | 1       |

Lab Sample ID: LCS 380-167255/23-A

Matrix: Water

Analysis Batch: 167457

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 167255

| Analyte             | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------------------|-------------|------------|---------------|------|---|------|-------------|
| 1-Methylnaphthalene | 1.95        | 1.76       |               | ug/L |   | 90   | 70 - 130    |
| 2,4'-DDD            | 1.95        | 2.20       |               | ug/L |   | 113  | 70 - 130    |
| 2,4'-DDE            | 1.95        | 2.08       |               | ug/L |   | 107  | 70 - 130    |

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# QC Sample Results

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

Job ID: 380-164439-1  
SDG: Weekly: Moanalua Wells P1

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

Lab Sample ID: LCS 380-167255/23-A

Matrix: Water

Analysis Batch: 167457

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 167255

| Analyte                          | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------------------------------|-------------|------------|---------------|------|---|------|-------------|
| 2,4'-DDT                         | 1.95        | 2.05       |               | ug/L |   | 106  | 70 - 130    |
| 2,4-Dinitrotoluene               | 1.95        | 2.16       |               | ug/L |   | 111  | 70 - 130    |
| 2,6-Dinitrotoluene               | 1.95        | 1.77       |               | ug/L |   | 91   | 70 - 130    |
| 2-Methylnaphthalene              | 1.95        | 1.76       |               | ug/L |   | 91   | 70 - 130    |
| 4,4'-DDD                         | 1.95        | 2.13       |               | ug/L |   | 110  | 70 - 130    |
| 4,4'-DDE                         | 1.95        | 2.19       |               | ug/L |   | 113  | 70 - 130    |
| 4,4'-DDT                         | 1.95        | 2.03       |               | ug/L |   | 104  | 70 - 130    |
| Acenaphthene                     | 1.95        | 1.83       |               | ug/L |   | 94   | 70 - 130    |
| Acenaphthylene                   | 1.95        | 1.95       |               | ug/L |   | 100  | 70 - 130    |
| Acetochlor                       | 1.95        | 2.03       |               | ug/L |   | 104  | 70 - 130    |
| Alachlor                         | 1.95        | 2.06       |               | ug/L |   | 106  | 70 - 130    |
| alpha-BHC                        | 1.95        | 2.07       |               | ug/L |   | 106  | 70 - 130    |
| alpha-Chlordane                  | 1.95        | 2.45       |               | ug/L |   | 126  | 70 - 130    |
| Anthracene                       | 1.95        | 2.05       |               | ug/L |   | 106  | 70 - 130    |
| Atrazine                         | 1.95        | 2.26       |               | ug/L |   | 116  | 70 - 130    |
| Benz(a)anthracene                | 1.95        | 2.02       |               | ug/L |   | 104  | 70 - 130    |
| Benzo[a]pyrene                   | 1.95        | 2.13       |               | ug/L |   | 110  | 70 - 130    |
| Benzo[b]fluoranthene             | 1.95        | 2.10       |               | ug/L |   | 108  | 70 - 130    |
| Benzo[g,h,i]perylene             | 1.95        | 1.84       |               | ug/L |   | 95   | 70 - 130    |
| Benzo[k]fluoranthene             | 1.95        | 1.98       |               | ug/L |   | 102  | 70 - 130    |
| beta-BHC                         | 1.95        | 2.11       |               | ug/L |   | 108  | 70 - 130    |
| Bis(2-ethylhexyl) phthalate      | 1.95        | 1.77       |               | ug/L |   | 91   | 70 - 130    |
| Bromacil                         | 1.95        | 1.96       |               | ug/L |   | 101  | 70 - 130    |
| Butachlor                        | 1.95        | 2.03       |               | ug/L |   | 104  | 70 - 130    |
| Butylbenzylphthalate             | 1.95        | 1.92       |               | ug/L |   | 99   | 70 - 130    |
| Chlorobenzilate                  | 1.95        | 1.86       |               | ug/L |   | 96   | 70 - 130    |
| Chloroneb                        | 1.95        | 2.02       |               | ug/L |   | 104  | 70 - 130    |
| Chlorothalonil (Draconil, Bravo) | 1.95        | 2.20       |               | ug/L |   | 113  | 70 - 130    |
| Chlorpyrifos                     | 1.95        | 2.18       |               | ug/L |   | 112  | 70 - 130    |
| Chrysene                         | 1.95        | 1.98       |               | ug/L |   | 102  | 70 - 130    |
| delta-BHC                        | 1.95        | 1.88       |               | ug/L |   | 97   | 70 - 130    |
| Di(2-ethylhexyl)adipate          | 1.95        | 1.91       |               | ug/L |   | 98   | 70 - 130    |
| Dibenz(a,h)anthracene            | 1.95        | 1.95       |               | ug/L |   | 100  | 70 - 130    |
| Diclorvos (DDVP)                 | 1.95        | 1.86       |               | ug/L |   | 95   | 70 - 130    |
| Dieldrin                         | 1.95        | 1.99       |               | ug/L |   | 102  | 70 - 130    |
| Diethylphthalate                 | 1.95        | 2.13       |               | ug/L |   | 110  | 70 - 130    |
| Dimethylphthalate                | 1.95        | 2.01       |               | ug/L |   | 103  | 70 - 130    |
| Di-n-butyl phthalate             | 3.89        | 4.48       |               | ug/L |   | 115  | 70 - 130    |
| Di-n-octyl phthalate             | 1.95        | 1.85       |               | ug/L |   | 95   | 70 - 130    |
| Endosulfan I (Alpha)             | 1.95        | 1.96       |               | ug/L |   | 101  | 70 - 130    |
| Endosulfan II (Beta)             | 1.95        | 1.88       |               | ug/L |   | 97   | 70 - 130    |
| Endosulfan sulfate               | 1.95        | 1.94       |               | ug/L |   | 100  | 70 - 130    |
| Endrin                           | 1.95        | 2.25       |               | ug/L |   | 116  | 70 - 130    |
| Endrin aldehyde                  | 1.95        | 2.20       |               | ug/L |   | 113  | 60 - 130    |
| EPTC                             | 1.95        | 1.89       |               | ug/L |   | 97   | 70 - 130    |
| Fluoranthene                     | 1.95        | 2.15       |               | ug/L |   | 110  | 70 - 130    |
| Fluorene                         | 1.95        | 2.01       |               | ug/L |   | 103  | 70 - 130    |
| gamma-Chlordane                  | 1.95        | 2.40       |               | ug/L |   | 123  | 70 - 130    |
| Heptachlor                       | 1.95        | 2.22       |               | ug/L |   | 114  | 70 - 130    |

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-164439-1  
SDG: Weekly: Moanalua Wells P1

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

Lab Sample ID: LCS 380-167255/23-A

Matrix: Water

Analysis Batch: 167457

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 167255

| Analyte                       | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|-------------------------------|-------------|------------|---------------|------|---|------|-------------|
| Heptachlor epoxide (isomer B) | 1.95        | 2.29       |               | ug/L |   | 118  | 70 - 130    |
| Hexachlorobenzene             | 1.95        | 2.16       |               | ug/L |   | 111  | 70 - 130    |
| Hexachlorocyclopentadiene     | 1.95        | 2.17       |               | ug/L |   | 111  | 70 - 130    |
| Indeno[1,2,3-cd]pyrene        | 1.95        | 2.08       |               | ug/L |   | 107  | 70 - 130    |
| Isophorone                    | 1.95        | 1.86       |               | ug/L |   | 96   | 70 - 130    |
| Lindane                       | 1.95        | 2.25       |               | ug/L |   | 116  | 70 - 130    |
| Malathion                     | 1.95        | 2.09       |               | ug/L |   | 108  | 70 - 130    |
| Methoxychlor                  | 1.95        | 2.24       |               | ug/L |   | 115  | 70 - 130    |
| Metolachlor                   | 1.95        | 2.17       |               | ug/L |   | 112  | 70 - 130    |
| Molinate                      | 1.95        | 2.02       |               | ug/L |   | 104  | 70 - 130    |
| Naphthalene                   | 1.95        | 1.77       |               | ug/L |   | 91   | 70 - 130    |
| Parathion                     | 1.95        | 1.98       |               | ug/L |   | 102  | 70 - 130    |
| Pendimethalin (Penoxaline)    | 1.95        | 2.34       |               | ug/L |   | 120  | 70 - 130    |
| Phenanthrene                  | 1.95        | 1.83       |               | ug/L |   | 94   | 70 - 130    |
| Propachlor                    | 1.95        | 2.09       |               | ug/L |   | 108  | 70 - 130    |
| Pyrene                        | 1.95        | 2.18       |               | ug/L |   | 112  | 70 - 130    |
| Simazine                      | 1.95        | 2.14       |               | ug/L |   | 110  | 70 - 130    |
| Terbacil                      | 1.95        | 1.98       |               | ug/L |   | 102  | 70 - 130    |
| Terbuthylazine                | 1.95        | 2.25       |               | ug/L |   | 116  | 70 - 130    |
| Thiobencarb                   | 1.95        | 2.04       |               | ug/L |   | 105  | 70 - 130    |
| trans-Nonachlor               | 1.95        | 2.53       |               | ug/L |   | 130  | 70 - 130    |
| Trifluralin                   | 1.95        | 2.38       |               | ug/L |   | 123  | 70 - 130    |

| Surrogate          | LCS %Recovery | LCS Qualifier | Limits   |
|--------------------|---------------|---------------|----------|
| 2-Nitro-m-xylene   | 86            |               | 70 - 130 |
| Perylene-d12       | 97            |               | 70 - 130 |
| Triphenylphosphate | 115           |               | 70 - 130 |

Lab Sample ID: MRL 380-167255/22-A

Matrix: Water

Analysis Batch: 167457

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 167255

| Analyte             | Spike Added | MRL Result | MRL Qualifier | Unit | D | %Rec | %Rec Limits |
|---------------------|-------------|------------|---------------|------|---|------|-------------|
| 1-Methylnaphthalene | 0.0971      | 0.105      |               | ug/L |   | 109  | 50 - 150    |
| 2,4'-DDD            | 0.0971      | 0.0847     | J             | ug/L |   | 87   | 50 - 150    |
| 2,4'-DDE            | 0.0971      | 0.0907     | J             | ug/L |   | 93   | 50 - 150    |
| 2,4'-DDT            | 0.0971      | 0.113      |               | ug/L |   | 116  | 50 - 150    |
| 2,4-Dinitrotoluene  | 0.0971      | 0.118      |               | ug/L |   | 121  | 50 - 150    |
| 2,6-Dinitrotoluene  | 0.0971      | 0.117      |               | ug/L |   | 120  | 50 - 150    |
| 2-Methylnaphthalene | 0.0971      | 0.0966     | J             | ug/L |   | 99   | 50 - 150    |
| 4,4'-DDD            | 0.0971      | 0.0947     | J             | ug/L |   | 97   | 50 - 150    |
| 4,4'-DDE            | 0.0971      | 0.0907     | J             | ug/L |   | 93   | 50 - 150    |
| 4,4'-DDT            | 0.0971      | 0.116      |               | ug/L |   | 120  | 50 - 150    |
| Acenaphthene        | 0.0971      | 0.0886     | J             | ug/L |   | 91   | 50 - 150    |
| Acenaphthylene      | 0.0971      | 0.0823     | J             | ug/L |   | 85   | 50 - 150    |
| Acetochlor          | 0.0971      | 0.101      |               | ug/L |   | 104  | 50 - 150    |
| Alachlor            | 0.0486      | 0.0470     | J             | ug/L |   | 97   | 50 - 150    |
| alpha-BHC           | 0.0971      | 0.0877     | J             | ug/L |   | 90   | 50 - 150    |

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-164439-1  
SDG: Weekly: Moanalua Wells P1

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

Lab Sample ID: MRL 380-167255/22-A

Matrix: Water

Analysis Batch: 167457

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 167255

| Analyte                          | Spike Added | MRL Result | MRL Qualifier | Unit | D | %Rec | %Rec Limits |
|----------------------------------|-------------|------------|---------------|------|---|------|-------------|
| alpha-Chlordane                  | 0.0243      | 0.0285     | J             | ug/L |   | 117  | 50 - 150    |
| Anthracene                       | 0.0194      | 0.0194     |               | ug/L |   | 100  | 50 - 150    |
| Atrazine                         | 0.0486      | 0.0544     |               | ug/L |   | 112  | 50 - 150    |
| Benz(a)anthracene                | 0.0486      | 0.0487     | J             | ug/L |   | 100  | 50 - 150    |
| Benzo[a]pyrene                   | 0.0194      | 0.0217     |               | ug/L |   | 112  | 50 - 150    |
| Benzo[b]fluoranthene             | 0.0194      | 0.0228     |               | ug/L |   | 117  | 50 - 150    |
| Benzo[g,h,i]perylene             | 0.0486      | 0.0498     |               | ug/L |   | 103  | 50 - 150    |
| Benzo[k]fluoranthene             | 0.0194      | 0.0253     |               | ug/L |   | 130  | 50 - 150    |
| beta-BHC                         | 0.0971      | 0.0954     | J             | ug/L |   | 98   | 50 - 150    |
| Bis(2-ethylhexyl) phthalate      | 0.583       | 0.518      | J             | ug/L |   | 89   | 50 - 150    |
| Bromacil                         | 0.0971      | 0.130      |               | ug/L |   | 133  | 50 - 150    |
| Butachlor                        | 0.0486      | 0.0543     |               | ug/L |   | 112  | 50 - 150    |
| Butylbenzylphthalate             | 0.486       | 0.463      | J             | ug/L |   | 95   | 50 - 150    |
| Chlorobenzilate                  | 0.0971      | 0.101      |               | ug/L |   | 104  | 50 - 150    |
| Chloroneb                        | 0.0971      | 0.0938     | J             | ug/L |   | 97   | 50 - 150    |
| Chlorothalonil (Draconil, Bravo) | 0.0971      | 0.0819     | J             | ug/L |   | 84   | 50 - 150    |
| Chlorpyrifos                     | 0.0486      | 0.0479     | J             | ug/L |   | 99   | 50 - 150    |
| Chrysene                         | 0.0194      | 0.0206     |               | ug/L |   | 106  | 50 - 150    |
| delta-BHC                        | 0.0971      | 0.0847     | J             | ug/L |   | 87   | 50 - 150    |
| Di(2-ethylhexyl)adipate          | 0.583       | 0.546      | J             | ug/L |   | 94   | 50 - 150    |
| Dibenz(a,h)anthracene            | 0.0486      | 0.0536     |               | ug/L |   | 110  | 50 - 150    |
| Diclorvos (DDVP)                 | 0.0486      | 0.0525     |               | ug/L |   | 108  | 50 - 150    |
| Dieldrin                         | 0.00971     | 0.0143     |               | ug/L |   | 147  | 50 - 150    |
| Diethylphthalate                 | 0.486       | 0.489      | J             | ug/L |   | 101  | 50 - 150    |
| Dimethylphthalate                | 0.486       | 0.480      | J             | ug/L |   | 99   | 50 - 150    |
| Di-n-butyl phthalate             | 0.486       | 0.888      | J             | ug/L |   | 183  | 49 - 243    |
| Di-n-octyl phthalate             | 0.0971      | 0.0990     |               | ug/L |   | 102  | 50 - 150    |
| Endosulfan I (Alpha)             | 0.0971      | 0.0863     | J             | ug/L |   | 89   | 50 - 150    |
| Endosulfan II (Beta)             | 0.0971      | 0.0888     | J             | ug/L |   | 91   | 50 - 150    |
| Endosulfan sulfate               | 0.0971      | 0.105      |               | ug/L |   | 108  | 50 - 150    |
| Endrin                           | 0.00971     | 0.00913    | J             | ug/L |   | 94   | 50 - 150    |
| Endrin aldehyde                  | 0.0971      | 0.130      |               | ug/L |   | 134  | 50 - 150    |
| EPTC                             | 0.0971      | 0.0881     | J             | ug/L |   | 91   | 50 - 150    |
| Fluoranthene                     | 0.0971      | 0.0887     | J             | ug/L |   | 91   | 50 - 150    |
| Fluorene                         | 0.0486      | <0.049     |               | ug/L |   | 91   | 50 - 150    |
| gamma-Chlordane                  | 0.0243      | 0.0252     | J             | ug/L |   | 104  | 50 - 150    |
| Heptachlor                       | 0.00971     | 0.0106     |               | ug/L |   | 109  | 50 - 150    |
| Heptachlor epoxide (isomer B)    | 0.00971     | 0.00956    | J             | ug/L |   | 98   | 50 - 150    |
| Hexachlorobenzene                | 0.0486      | 0.0448     | J             | ug/L |   | 92   | 50 - 150    |
| Hexachlorocyclopentadiene        | 0.0486      | 0.0486     | J             | ug/L |   | 100  | 50 - 150    |
| Indeno[1,2,3-cd]pyrene           | 0.0486      | 0.0548     |               | ug/L |   | 113  | 50 - 150    |
| Isophorone                       | 0.0971      | 0.114      |               | ug/L |   | 117  | 50 - 150    |
| Lindane                          | 0.00971     | 0.0118     |               | ug/L |   | 122  | 50 - 150    |
| Malathion                        | 0.0971      | 0.105      |               | ug/L |   | 108  | 50 - 150    |
| Methoxychlor                     | 0.0486      | 0.0603     |               | ug/L |   | 124  | 50 - 150    |
| Metolachlor                      | 0.0486      | 0.0530     |               | ug/L |   | 109  | 50 - 150    |
| Molinate                         | 0.0971      | 0.0953     | J             | ug/L |   | 98   | 50 - 150    |
| Naphthalene                      | 0.0971      | 0.0911     | J             | ug/L |   | 94   | 50 - 150    |
| Parathion                        | 0.0971      | 0.0962     | J             | ug/L |   | 99   | 50 - 150    |

Euofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-164439-1  
SDG: Weekly: Moanalua Wells P1

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

Lab Sample ID: MRL 380-167255/22-A

Matrix: Water

Analysis Batch: 167457

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 167255

| Analyte                    | Spike Added | MRL Result | MRL Qualifier | Unit | D | %Rec | %Rec Limits |
|----------------------------|-------------|------------|---------------|------|---|------|-------------|
| Pendimethalin (Penoxaline) | 0.0971      | 0.128      |               | ug/L |   | 132  | 50 - 150    |
| Phenanthrene               | 0.0389      | 0.0376     | J             | ug/L |   | 97   | 50 - 150    |
| Propachlor                 | 0.0486      | 0.0535     |               | ug/L |   | 110  | 50 - 150    |
| Pyrene                     | 0.0486      | 0.0446     | J             | ug/L |   | 92   | 50 - 150    |
| Simazine                   | 0.0486      | 0.0558     |               | ug/L |   | 115  | 50 - 150    |
| Terbacil                   | 0.0971      | 0.106      |               | ug/L |   | 109  | 50 - 150    |
| Terbutylazine              | 0.0971      | 0.108      |               | ug/L |   | 111  | 50 - 150    |
| Thiobencarb                | 0.0971      | 0.0901     | J             | ug/L |   | 93   | 50 - 150    |
| trans-Nonachlor            | 0.0243      | 0.0262     | J             | ug/L |   | 108  | 50 - 150    |
| Trifluralin                | 0.0971      | 0.119      |               | ug/L |   | 122  | 50 - 150    |

| Surrogate          | MRL %Recovery | MRL Qualifier | Limits   |
|--------------------|---------------|---------------|----------|
| 2-Nitro-m-xylene   | 92            |               | 70 - 130 |
| Perylene-d12       | 88            |               | 70 - 130 |
| Triphenylphosphate | 109           |               | 70 - 130 |

Lab Sample ID: 380-164489-B-3-A MS

Matrix: Water

Analysis Batch: 167457

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 167255

| Analyte                     | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|-----------------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| 1-Methylnaphthalene         | <0.097        |                  | 1.94        | 1.84      |              | ug/L |   | 94   | 70 - 130    |
| 2,4'-DDD                    | <0.097        |                  | 1.94        | 2.13      |              | ug/L |   | 110  | 70 - 130    |
| 2,4'-DDE                    | <0.097        |                  | 1.94        | 2.00      |              | ug/L |   | 103  | 70 - 130    |
| 2,4'-DDT                    | <0.097        |                  | 1.94        | 1.98      |              | ug/L |   | 102  | 70 - 130    |
| 2,4-Dinitrotoluene          | <0.097        |                  | 1.94        | 2.23      |              | ug/L |   | 115  | 70 - 130    |
| 2,6-Dinitrotoluene          | <0.097        |                  | 1.94        | 1.90      |              | ug/L |   | 98   | 70 - 130    |
| 2-Methylnaphthalene         | <0.097        |                  | 1.94        | 1.84      |              | ug/L |   | 95   | 70 - 130    |
| 4,4'-DDD                    | <0.097        |                  | 1.94        | 2.08      |              | ug/L |   | 107  | 70 - 130    |
| 4,4'-DDE                    | <0.097        |                  | 1.94        | 1.99      |              | ug/L |   | 103  | 70 - 130    |
| 4,4'-DDT                    | <0.097        |                  | 1.94        | 1.94      |              | ug/L |   | 100  | 70 - 130    |
| Acenaphthene                | <0.097        |                  | 1.94        | 1.83      |              | ug/L |   | 95   | 70 - 130    |
| Acenaphthylene              | <0.097        |                  | 1.94        | 1.94      |              | ug/L |   | 100  | 70 - 130    |
| Acetochlor                  | <0.097        |                  | 1.94        | 2.01      |              | ug/L |   | 104  | 70 - 130    |
| Alachlor                    | <0.048        |                  | 1.94        | 1.97      |              | ug/L |   | 102  | 70 - 130    |
| alpha-BHC                   | <0.097        |                  | 1.94        | 1.91      |              | ug/L |   | 98   | 70 - 130    |
| alpha-Chlordane             | <0.048        |                  | 1.94        | 2.30      |              | ug/L |   | 117  | 70 - 130    |
| Anthracene                  | <0.019        | F1               | 1.94        | 0.906     | F1           | ug/L |   | 47   | 70 - 130    |
| Atrazine                    | <0.048        |                  | 1.94        | 2.01      |              | ug/L |   | 104  | 70 - 130    |
| Benz(a)anthracene           | <0.048        |                  | 1.94        | 1.73      |              | ug/L |   | 89   | 70 - 130    |
| Benzo[a]pyrene              | <0.019        |                  | 1.94        | 1.63      |              | ug/L |   | 84   | 70 - 130    |
| Benzo[b]fluoranthene        | <0.019        |                  | 1.94        | 2.10      |              | ug/L |   | 108  | 70 - 130    |
| Benzo[g,h,i]perylene        | <0.048        |                  | 1.94        | 1.77      |              | ug/L |   | 91   | 70 - 130    |
| Benzo[k]fluoranthene        | <0.019        |                  | 1.94        | 2.00      |              | ug/L |   | 103  | 70 - 130    |
| beta-BHC                    | <0.097        |                  | 1.94        | 1.95      |              | ug/L |   | 101  | 70 - 130    |
| Bis(2-ethylhexyl) phthalate | <0.58         |                  | 1.94        | 1.77      |              | ug/L |   | 91   | 70 - 130    |
| Bromacil                    | <0.097        |                  | 1.94        | 2.04      |              | ug/L |   | 103  | 70 - 130    |
| Butachlor                   | <0.048        |                  | 1.94        | 1.97      |              | ug/L |   | 102  | 70 - 130    |

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# QC Sample Results

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

Job ID: 380-164439-1  
SDG: Weekly: Moanalua Wells P1

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

Lab Sample ID: 380-164489-B-3-A MS

Matrix: Water

Analysis Batch: 167457

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 167255

| Analyte                          | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------------------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Butylbenzylphthalate             | <0.48         |                  | 1.94        | 1.88      |              | ug/L |   | 97   | 70 - 130    |
| Chlorobenzilate                  | <0.097        |                  | 1.94        | 1.88      |              | ug/L |   | 97   | 70 - 130    |
| Chloroneb                        | <0.097        |                  | 1.94        | 1.97      |              | ug/L |   | 102  | 70 - 130    |
| Chlorothalonil (Draconil, Bravo) | <0.097        |                  | 1.94        | 2.07      |              | ug/L |   | 107  | 70 - 130    |
| Chlorpyrifos                     | <0.048        |                  | 1.94        | 2.11      |              | ug/L |   | 109  | 70 - 130    |
| Chrysene                         | <0.019        |                  | 1.94        | 1.93      |              | ug/L |   | 100  | 70 - 130    |
| delta-BHC                        | <0.097        |                  | 1.94        | 1.80      |              | ug/L |   | 93   | 70 - 130    |
| Di(2-ethylhexyl)adipate          | <0.58         |                  | 1.94        | 1.86      |              | ug/L |   | 96   | 70 - 130    |
| Dibenz(a,h)anthracene            | <0.048        |                  | 1.94        | 1.89      |              | ug/L |   | 98   | 70 - 130    |
| Diclorvos (DDVP)                 | <0.048        |                  | 1.94        | 2.02      |              | ug/L |   | 104  | 70 - 130    |
| Dieldrin                         | 0.066         |                  | 1.94        | 1.98      |              | ug/L |   | 99   | 70 - 130    |
| Diethylphthalate                 | <0.48         |                  | 1.94        | 2.01      |              | ug/L |   | 104  | 70 - 130    |
| Dimethylphthalate                | <0.48         |                  | 1.94        | 1.98      |              | ug/L |   | 102  | 70 - 130    |
| Di-n-butyl phthalate             | <0.97         |                  | 3.88        | 4.56      |              | ug/L |   | 118  | 70 - 130    |
| Di-n-octyl phthalate             | <0.097        |                  | 1.94        | 1.89      |              | ug/L |   | 98   | 70 - 130    |
| Endosulfan I (Alpha)             | <0.097        |                  | 1.94        | 1.89      |              | ug/L |   | 97   | 70 - 130    |
| Endosulfan II (Beta)             | <0.097        |                  | 1.94        | 1.82      |              | ug/L |   | 94   | 70 - 130    |
| Endosulfan sulfate               | <0.097        |                  | 1.94        | 1.83      |              | ug/L |   | 94   | 70 - 130    |
| Endrin                           | <0.0097       |                  | 1.94        | 2.13      |              | ug/L |   | 110  | 70 - 130    |
| Endrin aldehyde                  | <0.097        |                  | 1.94        | 1.89      |              | ug/L |   | 98   | 60 - 130    |
| EPTC                             | <0.097        |                  | 1.94        | 1.99      |              | ug/L |   | 103  | 70 - 130    |
| Fluoranthene                     | <0.097        |                  | 1.94        | 2.02      |              | ug/L |   | 104  | 70 - 130    |
| Fluorene                         | <0.048        |                  | 1.94        | 1.93      |              | ug/L |   | 100  | 70 - 130    |
| gamma-Chlordane                  | <0.048        |                  | 1.94        | 2.30      |              | ug/L |   | 118  | 70 - 130    |
| Heptachlor                       | <0.0097       |                  | 1.94        | 2.17      |              | ug/L |   | 112  | 70 - 130    |
| Heptachlor epoxide (isomer B)    | 0.012         |                  | 1.94        | 2.10      |              | ug/L |   | 108  | 70 - 130    |
| Hexachlorobenzene                | <0.048        |                  | 1.94        | 2.02      |              | ug/L |   | 104  | 70 - 130    |
| Hexachlorocyclopentadiene        | <0.048        |                  | 1.94        | 2.37      |              | ug/L |   | 122  | 70 - 130    |
| Indeno[1,2,3-cd]pyrene           | <0.048        |                  | 1.94        | 2.07      |              | ug/L |   | 107  | 70 - 130    |
| Isophorone                       | <0.097        |                  | 1.94        | 2.08      |              | ug/L |   | 108  | 70 - 130    |
| Lindane                          | <0.0097       |                  | 1.94        | 2.09      |              | ug/L |   | 108  | 70 - 130    |
| Malathion                        | <0.097        |                  | 1.94        | 1.94      |              | ug/L |   | 100  | 70 - 130    |
| Methoxychlor                     | <0.048        |                  | 1.94        | 2.15      |              | ug/L |   | 111  | 70 - 130    |
| Metolachlor                      | <0.048        |                  | 1.94        | 2.07      |              | ug/L |   | 107  | 70 - 130    |
| Molinate                         | <0.097        |                  | 1.94        | 2.00      |              | ug/L |   | 103  | 70 - 130    |
| Naphthalene                      | <0.097        |                  | 1.94        | 1.90      |              | ug/L |   | 98   | 70 - 130    |
| Parathion                        | <0.097        |                  | 1.94        | 1.91      |              | ug/L |   | 99   | 70 - 130    |
| Pendimethalin (Penoxaline)       | <0.097        |                  | 1.94        | 2.24      |              | ug/L |   | 116  | 70 - 130    |
| Phenanthrene                     | <0.039        |                  | 1.94        | 1.78      |              | ug/L |   | 92   | 70 - 130    |
| Propachlor                       | <0.048        |                  | 1.94        | 1.98      |              | ug/L |   | 102  | 70 - 130    |
| Pyrene                           | <0.048        |                  | 1.94        | 2.03      |              | ug/L |   | 105  | 70 - 130    |
| Simazine                         | <0.048        |                  | 1.94        | 2.01      |              | ug/L |   | 104  | 70 - 130    |
| Terbacil                         | <0.097        |                  | 1.94        | 2.00      |              | ug/L |   | 103  | 70 - 130    |
| Terbuthylazine                   | <0.097        |                  | 1.94        | 2.09      |              | ug/L |   | 108  | 70 - 130    |
| Thiobencarb                      | <0.097        |                  | 1.94        | 1.97      |              | ug/L |   | 101  | 70 - 130    |
| trans-Nonachlor                  | <0.048        |                  | 1.94        | 2.35      |              | ug/L |   | 121  | 70 - 130    |
| Trifluralin                      | <0.097        |                  | 1.94        | 2.21      |              | ug/L |   | 114  | 70 - 130    |

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# QC Sample Results

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

Job ID: 380-164439-1  
SDG: Weekly: Moanalua Wells P1

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

Lab Sample ID: 380-164489-B-3-A MS

Matrix: Water

Analysis Batch: 167457

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 167255

|                    | MS        | MS        |          |
|--------------------|-----------|-----------|----------|
| Surrogate          | %Recovery | Qualifier | Limits   |
| 2-Nitro-m-xylene   | 94        |           | 70 - 130 |
| Perylene-d12       | 94        |           | 70 - 130 |
| Triphenylphosphate | 107       |           | 70 - 130 |

Lab Sample ID: 380-164489-B-1-A DU

Matrix: Water

Analysis Batch: 167457

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 167255

| Analyte                          | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | Limit |
|----------------------------------|---------------|------------------|-----------|--------------|------|---|-----|-------|
| 1-Methylnaphthalene              | <0.097        |                  | <0.097    |              | ug/L |   | NC  | 20    |
| 2,4'-DDD                         | <0.097        |                  | <0.097    |              | ug/L |   | NC  | 20    |
| 2,4'-DDE                         | <0.097        |                  | <0.097    |              | ug/L |   | NC  | 20    |
| 2,4'-DDT                         | <0.097        |                  | <0.097    |              | ug/L |   | NC  | 20    |
| 2,4-Dinitrotoluene               | <0.097        |                  | <0.097    |              | ug/L |   | NC  | 20    |
| 2,6-Dinitrotoluene               | <0.097        |                  | <0.097    |              | ug/L |   | NC  | 20    |
| 2-Methylnaphthalene              | <0.097        |                  | <0.097    |              | ug/L |   | NC  | 20    |
| 4,4'-DDD                         | <0.097        |                  | <0.097    |              | ug/L |   | NC  | 20    |
| 4,4'-DDE                         | <0.097        |                  | <0.097    |              | ug/L |   | NC  | 20    |
| 4,4'-DDT                         | <0.097        |                  | <0.097    |              | ug/L |   | NC  | 20    |
| Acenaphthene                     | <0.097        |                  | <0.097    |              | ug/L |   | NC  | 20    |
| Acenaphthylene                   | <0.097        |                  | <0.097    |              | ug/L |   | NC  | 20    |
| Acetochlor                       | <0.097        |                  | <0.097    |              | ug/L |   | NC  | 20    |
| Alachlor                         | <0.049        |                  | <0.049    |              | ug/L |   | NC  | 20    |
| alpha-BHC                        | <0.097        |                  | <0.097    |              | ug/L |   | NC  | 20    |
| alpha-Chlordane                  | <0.049        |                  | <0.049    |              | ug/L |   | NC  | 20    |
| Anthracene                       | <0.019        |                  | <0.019    |              | 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                   | <0.019        |                  | <0.019    |              | ug/L |   | NC  | 20    |
| Benzo[b]fluoranthene             | <0.019        |                  | <0.019    |              | ug/L |   | NC  | 20    |
| Benzo[g,h,i]perylene             | <0.049        |                  | <0.049    |              | ug/L |   | NC  | 20    |
| Benzo[k]fluoranthene             | <0.019        |                  | <0.019    |              | ug/L |   | NC  | 20    |
| beta-BHC                         | <0.097        |                  | <0.097    |              | ug/L |   | NC  | 20    |
| Bis(2-ethylhexyl) phthalate      | <0.58         |                  | <0.58     |              | ug/L |   | NC  | 20    |
| Bromacil                         | <0.097        |                  | <0.097    |              | ug/L |   | NC  | 20    |
| Butachlor                        | <0.049        |                  | <0.049    |              | ug/L |   | NC  | 20    |
| Butylbenzylphthalate             | <0.49         |                  | <0.49     |              | ug/L |   | NC  | 20    |
| Chlorobenzilate                  | <0.097        |                  | <0.097    |              | ug/L |   | NC  | 20    |
| Chloroneb                        | <0.097        |                  | <0.097    |              | ug/L |   | NC  | 20    |
| Chlorothalonil (Draconil, Bravo) | <0.097        |                  | <0.097    |              | ug/L |   | NC  | 20    |
| Chlorpyrifos                     | <0.049        |                  | <0.049    |              | ug/L |   | NC  | 20    |
| Chrysene                         | <0.019        |                  | <0.019    |              | ug/L |   | NC  | 20    |
| delta-BHC                        | <0.097        |                  | <0.097    |              | ug/L |   | NC  | 20    |
| Di(2-ethylhexyl)adipate          | <0.58         |                  | <0.58     |              | 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                         | 0.071         |                  | 0.0681    |              | ug/L |   | 5   | 20    |
| Diethylphthalate                 | <0.49         |                  | <0.49     |              | ug/L |   | NC  | 20    |

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-164439-1  
SDG: Weekly: Moanalua Wells P1

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

Lab Sample ID: 380-164489-B-1-A DU

Matrix: Water

Analysis Batch: 167457

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 167255

| Analyte                          | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | Limit |
|----------------------------------|---------------|------------------|-----------|--------------|------|---|-----|-------|
| Dimethylphthalate                | <0.49         |                  | <0.49     |              | ug/L |   | NC  | 20    |
| Di-n-butyl phthalate             | <0.97         |                  | <0.97     |              | ug/L |   | NC  | 20    |
| Di-n-octyl phthalate             | <0.097        |                  | <0.097    |              | ug/L |   | NC  | 20    |
| Endosulfan I (Alpha)             | <0.097        |                  | <0.097    |              | ug/L |   | NC  | 20    |
| Endosulfan II (Beta)             | <0.097        |                  | <0.097    |              | ug/L |   | NC  | 20    |
| Endosulfan sulfate               | <0.097        |                  | <0.097    |              | ug/L |   | NC  | 20    |
| Endrin                           | <0.0097       |                  | <0.0097   |              | ug/L |   | NC  | 20    |
| Endrin aldehyde                  | <0.097        |                  | <0.097    |              | ug/L |   | NC  | 20    |
| EPTC                             | <0.097        |                  | <0.097    |              | ug/L |   | NC  | 20    |
| Fluoranthene                     | <0.097        |                  | <0.097    |              | ug/L |   | NC  | 20    |
| Fluorene                         | <0.049        |                  | <0.049    |              | ug/L |   | NC  | 20    |
| gamma-Chlordane                  | <0.049        |                  | <0.049    |              | ug/L |   | NC  | 20    |
| Heptachlor                       | <0.0097       |                  | <0.0097   |              | ug/L |   | NC  | 20    |
| Heptachlor epoxide (isomer B)    | 0.012         |                  | 0.0117    |              | ug/L |   | 4   | 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                       | <0.097        |                  | <0.097    |              | ug/L |   | NC  | 20    |
| Lindane                          | <0.0097       |                  | <0.0097   |              | ug/L |   | NC  | 20    |
| Malathion                        | <0.097        |                  | <0.097    |              | ug/L |   | NC  | 20    |
| Methoxychlor                     | <0.049        |                  | <0.049    |              | ug/L |   | NC  | 20    |
| Metolachlor                      | <0.049        |                  | <0.049    |              | ug/L |   | NC  | 20    |
| Molinate                         | <0.097        |                  | <0.097    |              | ug/L |   | NC  | 20    |
| Naphthalene                      | <0.097        |                  | <0.097    |              | ug/L |   | NC  | 20    |
| Parathion                        | <0.097        |                  | <0.097    |              | ug/L |   | NC  | 20    |
| Pendimethalin (Penoxaline)       | <0.097        |                  | <0.097    |              | ug/L |   | NC  | 20    |
| Phenanthrene                     | <0.039        |                  | <0.039    |              | ug/L |   | NC  | 20    |
| Propachlor                       | <0.049        |                  | <0.049    |              | ug/L |   | NC  | 20    |
| Pyrene                           | <0.049        |                  | <0.049    |              | ug/L |   | NC  | 20    |
| Simazine                         | <0.049        |                  | <0.049    |              | ug/L |   | NC  | 20    |
| Terbacil                         | <0.097        |                  | <0.097    |              | ug/L |   | NC  | 20    |
| Terbutylazine                    | <0.097        |                  | <0.097    |              | ug/L |   | NC  | 20    |
| Thiobencarb                      | <0.097        |                  | <0.097    |              | ug/L |   | NC  | 20    |
| Total Permethrin (mixed isomers) | <0.19         |                  | <0.19     |              | ug/L |   | NC  | 20    |
| trans-Nonachlor                  | <0.049        |                  | <0.049    |              | ug/L |   | NC  | 20    |
| Trifluralin                      | <0.097        |                  | <0.097    |              | ug/L |   | NC  | 20    |

| Surrogate          | DU %Recovery | DU Qualifier | Limits   |
|--------------------|--------------|--------------|----------|
| 2-Nitro-m-xylene   | 96           |              | 70 - 130 |
| Perylene-d12       | 91           |              | 70 - 130 |
| Triphenylphosphate | 101          |              | 70 - 130 |

# QC Sample Results

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

Job ID: 380-164439-1  
SDG: Weekly: Moanalua Wells P1

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

Lab Sample ID: MB 570-607569/1-A  
Matrix: Water  
Analysis Batch: 611493

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 607569

| <i>Tentatively Identified Compound</i> | <i>Est. Result</i> | <i>Qualifier</i> | <i>Unit</i>   | <i>D</i> | <i>RT</i> | <i>CAS No.</i> | <i>Prepared</i>       | <i>Analyzed</i>       | <i>Dil Fac</i> |
|----------------------------------------|--------------------|------------------|---------------|----------|-----------|----------------|-----------------------|-----------------------|----------------|
| <i>Tentatively Identified Compound</i> | <i>None</i>        |                  | <i>ug/L</i>   |          |           | <i>N/A</i>     | <i>08/06/25 05:09</i> | <i>08/14/25 10:43</i> | <i>1</i>       |
| <i>Surrogate</i>                       | <i>%Recovery</i>   | <i>Qualifier</i> | <i>Limits</i> |          |           |                | <i>Prepared</i>       | <i>Analyzed</i>       | <i>Dil Fac</i> |
| 2,4,6-Tribromophenol (Surr)            | 72                 |                  | 33 - 139      |          |           |                | 08/06/25 05:09        | 08/14/25 10:43        | 1              |
| 2-Fluorobiphenyl (Surr)                | 88                 |                  | 33 - 126      |          |           |                | 08/06/25 05:09        | 08/14/25 10:43        | 1              |
| 2-Fluorophenol (Surr)                  | 49                 |                  | 12 - 120      |          |           |                | 08/06/25 05:09        | 08/14/25 10:43        | 1              |
| Nitrobenzene-d5 (Surr)                 | 86                 |                  | 36 - 120      |          |           |                | 08/06/25 05:09        | 08/14/25 10:43        | 1              |
| Phenol-d6 (Surr)                       | 30                 |                  | 10 - 120      |          |           |                | 08/06/25 05:09        | 08/14/25 10:43        | 1              |
| p-Terphenyl-d14 (Surr)                 | 86                 |                  | 47 - 131      |          |           |                | 08/06/25 05:09        | 08/14/25 10:43        | 1              |

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

Lab Sample ID: MB 570-607569/1-A  
Matrix: Water  
Analysis Batch: 609768

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 607569

| <i>Analyte</i>              | <i>Result</i>    | <i>Qualifier</i> | <i>RL</i>     | <i>Unit</i> | <i>D</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Dil Fac</i> |
|-----------------------------|------------------|------------------|---------------|-------------|----------|-----------------|-----------------|----------------|
| 1-Methylnaphthalene         | <0.20            |                  | 0.20          | ug/L        |          | 08/06/25 05:09  | 08/11/25 15:30  | 1              |
| 2-Methylnaphthalene         | <0.20            |                  | 0.20          | ug/L        |          | 08/06/25 05:09  | 08/11/25 15:30  | 1              |
| Acenaphthene                | <0.20            |                  | 0.20          | ug/L        |          | 08/06/25 05:09  | 08/11/25 15:30  | 1              |
| Acenaphthylene              | <0.20            |                  | 0.20          | ug/L        |          | 08/06/25 05:09  | 08/11/25 15:30  | 1              |
| Anthracene                  | <0.20            |                  | 0.20          | ug/L        |          | 08/06/25 05:09  | 08/11/25 15:30  | 1              |
| Benzo[a]anthracene          | <0.20            |                  | 0.20          | ug/L        |          | 08/06/25 05:09  | 08/11/25 15:30  | 1              |
| Benzo[a]pyrene              | <0.20            |                  | 0.20          | ug/L        |          | 08/06/25 05:09  | 08/11/25 15:30  | 1              |
| Benzo[b]fluoranthene        | <0.20            |                  | 0.20          | ug/L        |          | 08/06/25 05:09  | 08/11/25 15:30  | 1              |
| Benzo[g,h,i]perylene        | <0.20            |                  | 0.20          | ug/L        |          | 08/06/25 05:09  | 08/11/25 15:30  | 1              |
| Benzo[k]fluoranthene        | <0.20            |                  | 0.20          | ug/L        |          | 08/06/25 05:09  | 08/11/25 15:30  | 1              |
| Chrysene                    | <0.20            |                  | 0.20          | ug/L        |          | 08/06/25 05:09  | 08/11/25 15:30  | 1              |
| Dibenz(a,h)anthracene       | <0.20            |                  | 0.20          | ug/L        |          | 08/06/25 05:09  | 08/11/25 15:30  | 1              |
| Fluoranthene                | <0.20            |                  | 0.20          | ug/L        |          | 08/06/25 05:09  | 08/11/25 15:30  | 1              |
| Fluorene                    | <0.20            |                  | 0.20          | ug/L        |          | 08/06/25 05:09  | 08/11/25 15:30  | 1              |
| Indeno[1,2,3-cd]pyrene      | <0.20            |                  | 0.20          | ug/L        |          | 08/06/25 05:09  | 08/11/25 15:30  | 1              |
| Naphthalene                 | <0.20            |                  | 0.20          | ug/L        |          | 08/06/25 05:09  | 08/11/25 15:30  | 1              |
| Phenanthrene                | <0.20            |                  | 0.20          | ug/L        |          | 08/06/25 05:09  | 08/11/25 15:30  | 1              |
| Pyrene                      | <0.20            |                  | 0.20          | ug/L        |          | 08/06/25 05:09  | 08/11/25 15:30  | 1              |
| <i>Surrogate</i>            | <i>%Recovery</i> | <i>Qualifier</i> | <i>Limits</i> |             |          | <i>Prepared</i> | <i>Analyzed</i> | <i>Dil Fac</i> |
| 2,4,6-Tribromophenol (Surr) | 83               |                  | 28 - 127      |             |          | 08/06/25 05:09  | 08/11/25 15:30  | 1              |
| 2-Fluorobiphenyl (Surr)     | 78               |                  | 31 - 120      |             |          | 08/06/25 05:09  | 08/11/25 15:30  | 1              |
| 2-Fluorophenol (Surr)       | 54               |                  | 17 - 120      |             |          | 08/06/25 05:09  | 08/11/25 15:30  | 1              |
| Nitrobenzene-d5 (Surr)      | 81               |                  | 27 - 120      |             |          | 08/06/25 05:09  | 08/11/25 15:30  | 1              |
| Phenol-d6 (Surr)            | 35               |                  | 10 - 120      |             |          | 08/06/25 05:09  | 08/11/25 15:30  | 1              |
| p-Terphenyl-d14 (Surr)      | 86               |                  | 45 - 120      |             |          | 08/06/25 05:09  | 08/11/25 15:30  | 1              |

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# QC Sample Results

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

Job ID: 380-164439-1  
SDG: Weekly: Moanalua Wells P1

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

Lab Sample ID: LCS 570-607569/2-A

Matrix: Water

Analysis Batch: 609768

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 607569

| Analyte                | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|------------------------|-------------|------------|---------------|------|---|------|-------------|
| 1-Methylnaphthalene    | 20.0        | 18.3       |               | ug/L |   | 92   | 47 - 120    |
| 2-Methylnaphthalene    | 20.0        | 18.1       |               | ug/L |   | 90   | 43 - 120    |
| Acenaphthene           | 20.0        | 21.9       |               | ug/L |   | 110  | 60 - 132    |
| Acenaphthylene         | 20.0        | 22.3       |               | ug/L |   | 112  | 54 - 126    |
| Anthracene             | 20.0        | 22.7       |               | ug/L |   | 113  | 43 - 120    |
| Benzo[a]anthracene     | 20.0        | 23.1       |               | ug/L |   | 115  | 42 - 133    |
| Benzo[a]pyrene         | 20.0        | 23.5       |               | ug/L |   | 117  | 32 - 148    |
| Benzo[b]fluoranthene   | 20.0        | 23.2       |               | ug/L |   | 116  | 42 - 140    |
| Benzo[g,h,i]perylene   | 20.0        | 24.8       |               | ug/L |   | 124  | 1 - 195     |
| Benzo[k]fluoranthene   | 20.0        | 24.2       |               | ug/L |   | 121  | 25 - 146    |
| Chrysene               | 20.0        | 23.4       |               | ug/L |   | 117  | 44 - 140    |
| Dibenz(a,h)anthracene  | 20.0        | 25.0       |               | ug/L |   | 125  | 1 - 200     |
| Fluoranthene           | 20.0        | 23.6       |               | ug/L |   | 118  | 43 - 121    |
| Fluorene               | 20.0        | 22.8       |               | ug/L |   | 114  | 70 - 120    |
| Indeno[1,2,3-cd]pyrene | 20.0        | 22.9       |               | ug/L |   | 114  | 1 - 151     |
| Naphthalene            | 20.0        | 17.7       |               | ug/L |   | 88   | 36 - 120    |
| Phenanthrene           | 20.0        | 22.8       |               | ug/L |   | 114  | 65 - 120    |
| Pyrene                 | 20.0        | 23.2       |               | ug/L |   | 116  | 70 - 120    |

| Surrogate                   | LCS %Recovery | LCS Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 2,4,6-Tribromophenol (Surr) | 93            |               | 28 - 127 |
| 2-Fluorobiphenyl (Surr)     | 88            |               | 31 - 120 |
| 2-Fluorophenol (Surr)       | 69            |               | 17 - 120 |
| Nitrobenzene-d5 (Surr)      | 74            |               | 27 - 120 |
| Phenol-d6 (Surr)            | 45            |               | 10 - 120 |
| p-Terphenyl-d14 (Surr)      | 92            |               | 45 - 120 |

Lab Sample ID: LCSD 570-607569/3-A

Matrix: Water

Analysis Batch: 609768

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 607569

| Analyte                | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|------------------------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| 1-Methylnaphthalene    | 20.0        | 18.7        |                | ug/L |   | 93   | 47 - 120    | 2   | 20        |
| 2-Methylnaphthalene    | 20.0        | 18.4        |                | ug/L |   | 92   | 43 - 120    | 2   | 20        |
| Acenaphthene           | 20.0        | 21.9        |                | ug/L |   | 110  | 60 - 132    | 0   | 29        |
| Acenaphthylene         | 20.0        | 22.3        |                | ug/L |   | 112  | 54 - 126    | 0   | 45        |
| Anthracene             | 20.0        | 22.2        |                | ug/L |   | 111  | 43 - 120    | 2   | 40        |
| Benzo[a]anthracene     | 20.0        | 22.7        |                | ug/L |   | 113  | 42 - 133    | 2   | 32        |
| Benzo[a]pyrene         | 20.0        | 22.7        |                | ug/L |   | 113  | 32 - 148    | 3   | 43        |
| Benzo[b]fluoranthene   | 20.0        | 22.5        |                | ug/L |   | 113  | 42 - 140    | 3   | 43        |
| Benzo[g,h,i]perylene   | 20.0        | 24.0        |                | ug/L |   | 120  | 1 - 195     | 3   | 61        |
| Benzo[k]fluoranthene   | 20.0        | 23.3        |                | ug/L |   | 116  | 25 - 146    | 4   | 38        |
| Chrysene               | 20.0        | 22.7        |                | ug/L |   | 114  | 44 - 140    | 3   | 53        |
| Dibenz(a,h)anthracene  | 20.0        | 24.0        |                | ug/L |   | 120  | 1 - 200     | 4   | 75        |
| Fluoranthene           | 20.0        | 22.9        |                | ug/L |   | 115  | 43 - 121    | 3   | 40        |
| Fluorene               | 20.0        | 22.8        |                | ug/L |   | 114  | 70 - 120    | 0   | 23        |
| Indeno[1,2,3-cd]pyrene | 20.0        | 22.3        |                | ug/L |   | 111  | 1 - 151     | 3   | 60        |
| Naphthalene            | 20.0        | 17.6        |                | ug/L |   | 88   | 36 - 120    | 0   | 39        |

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# QC Sample Results

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

Job ID: 380-164439-1  
SDG: Weekly: Moanalua Wells P1

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

Lab Sample ID: LCSD 570-607569/3-A

Matrix: Water

Analysis Batch: 609768

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 607569

| Analyte      | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| Phenanthrene | 20.0        | 22.6        |                | ug/L |   | 113  | 65 - 120    | 1   | 24        |
| Pyrene       | 20.0        | 23.2        |                | ug/L |   | 116  | 70 - 120    | 0   | 30        |

| Surrogate                   | LCSD %Recovery | LCSD Qualifier | Limits   |
|-----------------------------|----------------|----------------|----------|
| 2,4,6-Tribromophenol (Surr) | 65             |                | 28 - 127 |
| 2-Fluorobiphenyl (Surr)     | 87             |                | 31 - 120 |
| 2-Fluorophenol (Surr)       | 43             |                | 17 - 120 |
| Nitrobenzene-d5 (Surr)      | 73             |                | 27 - 120 |
| Phenol-d6 (Surr)            | 40             |                | 10 - 120 |
| p-Terphenyl-d14 (Surr)      | 91             |                | 45 - 120 |

Lab Sample ID: 570-241517-D-1-A MS

Matrix: Water

Analysis Batch: 610847

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 607569

| Analyte                | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|------------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| 1-Methylnaphthalene    | 0.24          |                  | 19.9        | 17.1      |              | ug/L |   | 85   | 36 - 120    |
| 2-Methylnaphthalene    | <0.20         |                  | 19.9        | 16.7      |              | ug/L |   | 84   | 32 - 124    |
| Acenaphthene           | <0.20         |                  | 19.9        | 22.1      |              | ug/L |   | 110  | 47 - 145    |
| Acenaphthylene         | <0.20         |                  | 19.9        | 20.5      |              | ug/L |   | 103  | 33 - 145    |
| Anthracene             | <0.20         |                  | 19.9        | 20.7      |              | ug/L |   | 104  | 27 - 133    |
| Benzo[a]anthracene     | <0.20         |                  | 19.9        | 19.3      |              | ug/L |   | 97   | 33 - 143    |
| Benzo[a]pyrene         | <0.20         |                  | 19.9        | 19.4      |              | ug/L |   | 98   | 17 - 163    |
| Benzo[b]fluoranthene   | <0.20         |                  | 19.9        | 20.2      |              | ug/L |   | 101  | 24 - 159    |
| Benzo[g,h,i]perylene   | <0.20         |                  | 19.9        | 20.9      |              | ug/L |   | 105  | 1 - 219     |
| Benzo[k]fluoranthene   | <0.20         |                  | 19.9        | 20.0      |              | ug/L |   | 101  | 11 - 162    |
| Chrysene               | <0.20         |                  | 19.9        | 20.1      |              | ug/L |   | 101  | 17 - 168    |
| Dibenz(a,h)anthracene  | <0.20         |                  | 19.9        | 20.6      |              | ug/L |   | 104  | 1 - 227     |
| Fluoranthene           | <0.20         |                  | 19.9        | 22.2      |              | ug/L |   | 111  | 26 - 137    |
| Fluorene               | <0.20         |                  | 19.9        | 21.9      |              | ug/L |   | 110  | 59 - 121    |
| Indeno[1,2,3-cd]pyrene | <0.20         |                  | 19.9        | 19.6      |              | ug/L |   | 99   | 1 - 171     |
| Naphthalene            | <0.20         |                  | 19.9        | 16.8      |              | ug/L |   | 85   | 21 - 133    |
| Phenanthrene           | <0.20         |                  | 19.9        | 22.1      |              | ug/L |   | 111  | 54 - 120    |
| Pyrene                 | <0.20         |                  | 19.9        | 20.7      |              | ug/L |   | 104  | 52 - 120    |

| Surrogate                   | MS %Recovery | MS Qualifier | Limits   |
|-----------------------------|--------------|--------------|----------|
| 2,4,6-Tribromophenol (Surr) | 92           |              | 28 - 127 |
| 2-Fluorobiphenyl (Surr)     | 84           |              | 31 - 120 |
| 2-Fluorophenol (Surr)       | 43           |              | 17 - 120 |
| Nitrobenzene-d5 (Surr)      | 69           |              | 27 - 120 |
| Phenol-d6 (Surr)            | 32           |              | 10 - 120 |
| p-Terphenyl-d14 (Surr)      | 73           |              | 45 - 120 |

# QC Sample Results

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

Job ID: 380-164439-1  
SDG: Weekly: Moanalua Wells P1

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

Lab Sample ID: 570-241517-D-1-B MSD

Matrix: Water

Analysis Batch: 610847

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 607569

| Analyte                | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|------------------------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| 1-Methylnaphthalene    | 0.24          |                  | 19.6        | 18.3       |               | ug/L |   | 92   | 36 - 120    | 7   | 30        |
| 2-Methylnaphthalene    | <0.20         |                  | 19.6        | 17.8       |               | ug/L |   | 91   | 32 - 124    | 6   | 30        |
| Acenaphthene           | <0.20         |                  | 19.6        | 23.0       |               | ug/L |   | 116  | 47 - 145    | 4   | 48        |
| Acenaphthylene         | <0.20         |                  | 19.6        | 22.3       |               | ug/L |   | 114  | 33 - 145    | 9   | 74        |
| Anthracene             | <0.20         |                  | 19.6        | 21.9       |               | ug/L |   | 112  | 27 - 133    | 6   | 66        |
| Benzo[a]anthracene     | <0.20         |                  | 19.6        | 20.1       |               | ug/L |   | 103  | 33 - 143    | 4   | 53        |
| Benzo[a]pyrene         | <0.20         |                  | 19.6        | 21.1       |               | ug/L |   | 108  | 17 - 163    | 8   | 72        |
| Benzo[b]fluoranthene   | <0.20         |                  | 19.6        | 20.8       |               | ug/L |   | 106  | 24 - 159    | 3   | 71        |
| Benzo[g,h,i]perylene   | <0.20         |                  | 19.6        | 21.5       |               | ug/L |   | 110  | 1 - 219     | 3   | 97        |
| Benzo[k]fluoranthene   | <0.20         |                  | 19.6        | 21.1       |               | ug/L |   | 108  | 11 - 162    | 5   | 63        |
| Chrysene               | <0.20         |                  | 19.6        | 21.0       |               | ug/L |   | 108  | 17 - 168    | 5   | 87        |
| Dibenz(a,h)anthracene  | <0.20         |                  | 19.6        | 20.8       |               | ug/L |   | 106  | 1 - 227     | 1   | 126       |
| Fluoranthene           | <0.20         |                  | 19.6        | 17.2       |               | ug/L |   | 88   | 26 - 137    | 25  | 66        |
| Fluorene               | <0.20         |                  | 19.6        | 22.8       |               | ug/L |   | 116  | 59 - 121    | 4   | 38        |
| Indeno[1,2,3-cd]pyrene | <0.20         |                  | 19.6        | 19.9       |               | ug/L |   | 102  | 1 - 171     | 2   | 99        |
| Naphthalene            | <0.20         |                  | 19.6        | 18.1       |               | ug/L |   | 92   | 21 - 133    | 7   | 65        |
| Phenanthrene           | <0.20         |                  | 19.6        | 22.7       |               | ug/L |   | 116  | 54 - 120    | 3   | 39        |
| Pyrene                 | <0.20         |                  | 19.6        | 17.9       |               | ug/L |   | 91   | 52 - 120    | 15  | 49        |

| Surrogate                   | MSD %Recovery | MSD Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 2,4,6-Tribromophenol (Surr) | 99            |               | 28 - 127 |
| 2-Fluorobiphenyl (Surr)     | 95            |               | 31 - 120 |
| 2-Fluorophenol (Surr)       | 49            |               | 17 - 120 |
| Nitrobenzene-d5 (Surr)      | 78            |               | 27 - 120 |
| Phenol-d6 (Surr)            | 35            |               | 10 - 120 |
| p-Terphenyl-d14 (Surr)      | 77            |               | 45 - 120 |

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

Lab Sample ID: MB 570-612596/5

Matrix: Water

Analysis Batch: 612596

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 |   |          | 08/16/25 12:35 | 1       |
| Surrogate                   | MB %Recovery | MB Qualifier | Limits   |      |   | Prepared | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 80           |              | 38 - 134 |      |   |          | 08/16/25 12:35 | 1       |

Lab Sample ID: LCS 570-612596/3

Matrix: Water

Analysis Batch: 612596

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         | 346        |               | ug/L |   | 86   | 78 - 120    |

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# QC Sample Results

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

Job ID: 380-164439-1  
SDG: Weekly: Moanalua Wells P1

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

Lab Sample ID: LCS 570-612596/3

Matrix: Water

Analysis Batch: 612596

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

|                             | LCS       | LCS       |          |
|-----------------------------|-----------|-----------|----------|
| Surrogate                   | %Recovery | Qualifier | Limits   |
| 4-Bromofluorobenzene (Surr) | 92        |           | 38 - 134 |

Lab Sample ID: LCSD 570-612596/4

Matrix: Water

Analysis Batch: 612596

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

|                                  |  |  |  | Spike | LCSD   | LCSD      |      |   |      | %Rec     | RPD |       |
|----------------------------------|--|--|--|-------|--------|-----------|------|---|------|----------|-----|-------|
| Analyte                          |  |  |  | Added | Result | Qualifier | Unit | D | %Rec | Limits   | RPD | Limit |
| Gasoline Range Organics (C4-C13) |  |  |  | 400   | 330    |           | ug/L |   | 83   | 78 - 120 | 5   | 10    |

|                             | LCSD      | LCSD      |          |
|-----------------------------|-----------|-----------|----------|
| Surrogate                   | %Recovery | Qualifier | Limits   |
| 4-Bromofluorobenzene (Surr) | 91        |           | 38 - 134 |

Lab Sample ID: MRL 570-612596/6

Matrix: Water

Analysis Batch: 612596

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

|                                  |  |  | Spike | MRL    | MRL       |      |   |      |             |  |  |
|----------------------------------|--|--|-------|--------|-----------|------|---|------|-------------|--|--|
| Analyte                          |  |  | Added | Result | Qualifier | Unit | D | %Rec | %Rec Limits |  |  |
| Gasoline Range Organics (C4-C13) |  |  | 10.0  | <7.9   |           | ug/L |   | 75   | 50 - 150    |  |  |

|                             | MRL       | MRL       |          |
|-----------------------------|-----------|-----------|----------|
| Surrogate                   | %Recovery | Qualifier | Limits   |
| 4-Bromofluorobenzene (Surr) | 83        |           | 38 - 134 |

Lab Sample ID: 380-164502-C-1 MS

Matrix: Water

Analysis Batch: 612596

Client Sample ID: Matrix Spike

Prep Type: Total/NA

|                                  | Sample | Sample    | Spike | MS     | MS        |      |   | %Rec |          |
|----------------------------------|--------|-----------|-------|--------|-----------|------|---|------|----------|
| Analyte                          | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits   |
| Gasoline Range Organics (C4-C13) | <10    |           | 400   | 346    |           | ug/L |   | 86   | 68 - 122 |

|                             | MS        | MS        |          |
|-----------------------------|-----------|-----------|----------|
| Surrogate                   | %Recovery | Qualifier | Limits   |
| 4-Bromofluorobenzene (Surr) | 92        |           | 38 - 134 |

Lab Sample ID: 380-164502-C-1 MSD

Matrix: Water

Analysis Batch: 612596

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

|                                  | Sample | Sample    | Spike | MSD    | MSD       |      |   | %Rec |          | RPD |
|----------------------------------|--------|-----------|-------|--------|-----------|------|---|------|----------|-----|
| Analyte                          | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits   | RPD |
| Gasoline Range Organics (C4-C13) | <10    |           | 400   | 309    |           | ug/L |   | 77   | 68 - 122 | 11  |

|                             | MSD       | MSD       |          |
|-----------------------------|-----------|-----------|----------|
| Surrogate                   | %Recovery | Qualifier | Limits   |
| 4-Bromofluorobenzene (Surr) | 91        |           | 38 - 134 |

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-164439-1  
SDG: Weekly: Moanalua Wells P1

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

Lab Sample ID: MB 570-609844/1-A

Matrix: Water

Analysis Batch: 612481

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 609844

| Analyte                            | MB Result    | MB Qualifier | RL       | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|--------------|--------------|----------|------|---|----------------|----------------|---------|
| Diesel Range Organics (C10-C24)    | <25          |              | 25       | ug/L |   | 08/11/25 11:43 | 08/16/25 05:38 | 1       |
| Motor Oil Range Organics [C24-C36] | <25          |              | 25       | ug/L |   | 08/11/25 11:43 | 08/16/25 05:38 | 1       |
| C8-C18                             | <25          |              | 25       | ug/L |   | 08/11/25 11:43 | 08/16/25 05:38 | 1       |
| Surrogate                          | MB %Recovery | MB Qualifier | Limits   |      |   | Prepared       | Analyzed       | Dil Fac |
| n-Octacosane (Surr)                | 109          |              | 60 - 130 |      |   | 08/11/25 11:43 | 08/16/25 05:38 | 1       |

Lab Sample ID: LCS 570-609844/2-A

Matrix: Water

Analysis Batch: 612481

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 609844

| Analyte             | Spike Added   | LCS Result    | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------------------|---------------|---------------|---------------|------|---|------|-------------|
| C10-C28             | 1600          | 1500          |               | ug/L |   | 94   | 56 - 127    |
| Surrogate           | LCS %Recovery | LCS Qualifier | Limits        |      |   |      |             |
| n-Octacosane (Surr) | 111           |               | 60 - 130      |      |   |      |             |

Lab Sample ID: LCSD 570-609844/3-A

Matrix: Water

Analysis Batch: 612481

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 609844

| Analyte             | Spike Added    | LCSD Result    | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|----------------|----------------|----------------|------|---|------|-------------|-----|-----------|
| C10-C28             | 1600           | 1500           |                | ug/L |   | 94   | 56 - 127    | 0   | 23        |
| Surrogate           | LCSD %Recovery | LCSD Qualifier | Limits         |      |   |      |             |     |           |
| n-Octacosane (Surr) | 111            |                | 60 - 130       |      |   |      |             |     |           |

Lab Sample ID: MRL 570-609844/4-A

Matrix: Water

Analysis Batch: 612481

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 609844

| Analyte             | Spike Added   | MRL Result    | MRL Qualifier | Unit | D | %Rec | %Rec Limits |
|---------------------|---------------|---------------|---------------|------|---|------|-------------|
| C10-C28             | 0.0200        | 0.0251        |               | mg/L |   | 125  | 50 - 150    |
| Surrogate           | MRL %Recovery | MRL Qualifier | Limits        |      |   |      |             |
| n-Octacosane (Surr) | 113           |               | 60 - 130      |      |   |      |             |

Lab Sample ID: 380-164502-B-1-A MS

Matrix: Water

Analysis Batch: 612481

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 609844

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| C10-C28             | <25           |                  | 1620        | 1580      |              | ug/L |   | 98   | 70 - 130    |
| Surrogate           | MS %Recovery  | MS Qualifier     | Limits      |           |              |      |   |      |             |
| n-Octacosane (Surr) | 117           |                  | 60 - 130    |           |              |      |   |      |             |

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-164439-1  
SDG: Weekly: Moanalua Wells P1

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

Lab Sample ID: 380-164502-B-1-B MSD

Matrix: Water

Analysis Batch: 612481

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 609844

| Analyte             | Sample<br>Result | Sample<br>Qualifier      | Spike<br>Added        | MSD<br>Result | MSD<br>Qualifier | Unit | D | %Rec | %Rec<br>Limits | RPD | RPD<br>Limit |
|---------------------|------------------|--------------------------|-----------------------|---------------|------------------|------|---|------|----------------|-----|--------------|
| C10-C28             | <25              |                          | 1630                  | 1650          |                  | ug/L |   | 101  | 70 - 130       | 4   | 20           |
| <b>Surrogate</b>    | <b>%Recovery</b> | <b>MSD<br/>Qualifier</b> | <b>MSD<br/>Limits</b> |               |                  |      |   |      |                |     |              |
| n-Octacosane (Surr) | 121              |                          | 60 - 130              |               |                  |      |   |      |                |     |              |

# QC Association Summary

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

Job ID: 380-164439-1  
SDG: Weekly: Moanalua Wells P1

## GC/MS Semi VOA

### Prep Batch: 167255

| Lab Sample ID       | Client Sample ID                  | Prep Type | Matrix         | Method | Prep Batch |
|---------------------|-----------------------------------|-----------|----------------|--------|------------|
| 380-164439-1        | MOANALUA WELLS P1 (331-223-TP202) | Total/NA  | Drinking Water | 525.2  |            |
| MB 380-167255/21-A  | Method Blank                      | Total/NA  | Water          | 525.2  |            |
| LCS 380-167255/23-A | Lab Control Sample                | Total/NA  | Water          | 525.2  |            |
| MRL 380-167255/22-A | Lab Control Sample                | Total/NA  | Water          | 525.2  |            |
| 380-164489-B-3-A MS | Matrix Spike                      | Total/NA  | Water          | 525.2  |            |
| 380-164489-B-1-A DU | Duplicate                         | Total/NA  | Water          | 525.2  |            |

### Analysis Batch: 167457

| Lab Sample ID       | Client Sample ID                  | Prep Type | Matrix         | Method | Prep Batch |
|---------------------|-----------------------------------|-----------|----------------|--------|------------|
| 380-164439-1        | MOANALUA WELLS P1 (331-223-TP202) | Total/NA  | Drinking Water | 525.2  | 167255     |
| MB 380-167255/21-A  | Method Blank                      | Total/NA  | Water          | 525.2  | 167255     |
| LCS 380-167255/23-A | Lab Control Sample                | Total/NA  | Water          | 525.2  | 167255     |
| MRL 380-167255/22-A | Lab Control Sample                | Total/NA  | Water          | 525.2  | 167255     |
| 380-164489-B-3-A MS | Matrix Spike                      | Total/NA  | Water          | 525.2  | 167255     |
| 380-164489-B-1-A DU | Duplicate                         | Total/NA  | Water          | 525.2  | 167255     |

### Prep Batch: 607569

| Lab Sample ID        | Client Sample ID                  | Prep Type | Matrix         | Method | Prep Batch |
|----------------------|-----------------------------------|-----------|----------------|--------|------------|
| 380-164439-1         | MOANALUA WELLS P1 (331-223-TP202) | Total/NA  | Drinking Water | 625.1  |            |
| MB 570-607569/1-A    | Method Blank                      | Total/NA  | Water          | 625.1  |            |
| LCS 570-607569/2-A   | Lab Control Sample                | Total/NA  | Water          | 625.1  |            |
| LCSD 570-607569/3-A  | Lab Control Sample Dup            | Total/NA  | Water          | 625.1  |            |
| 570-241517-D-1-A MS  | Matrix Spike                      | Total/NA  | Water          | 625.1  |            |
| 570-241517-D-1-B MSD | Matrix Spike Duplicate            | Total/NA  | Water          | 625.1  |            |

### Analysis Batch: 609768

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method    | Prep Batch |
|---------------------|------------------------|-----------|--------|-----------|------------|
| MB 570-607569/1-A   | Method Blank           | Total/NA  | Water  | 625.1 SIM | 607569     |
| LCS 570-607569/2-A  | Lab Control Sample     | Total/NA  | Water  | 625.1 SIM | 607569     |
| LCSD 570-607569/3-A | Lab Control Sample Dup | Total/NA  | Water  | 625.1 SIM | 607569     |

### Analysis Batch: 610847

| Lab Sample ID        | Client Sample ID                  | Prep Type | Matrix         | Method    | Prep Batch |
|----------------------|-----------------------------------|-----------|----------------|-----------|------------|
| 380-164439-1         | MOANALUA WELLS P1 (331-223-TP202) | Total/NA  | Drinking Water | 625.1 SIM | 607569     |
| 570-241517-D-1-A MS  | Matrix Spike                      | Total/NA  | Water          | 625.1 SIM | 607569     |
| 570-241517-D-1-B MSD | Matrix Spike Duplicate            | Total/NA  | Water          | 625.1 SIM | 607569     |

### Analysis Batch: 611493

| Lab Sample ID     | Client Sample ID                  | Prep Type | Matrix         | Method | Prep Batch |
|-------------------|-----------------------------------|-----------|----------------|--------|------------|
| 380-164439-1      | MOANALUA WELLS P1 (331-223-TP202) | Total/NA  | Drinking Water | 625.1  | 607569     |
| MB 570-607569/1-A | Method Blank                      | Total/NA  | Water          | 625.1  | 607569     |

## GC VOA

### Analysis Batch: 612596

| Lab Sample ID     | Client Sample ID                  | Prep Type | Matrix         | Method       | Prep Batch |
|-------------------|-----------------------------------|-----------|----------------|--------------|------------|
| 380-164439-1      | MOANALUA WELLS P1 (331-223-TP202) | Total/NA  | Drinking Water | 8015B GRO LL |            |
| 380-164439-2      | TB: Moanalua Wells                | Total/NA  | Water          | 8015B GRO LL |            |
| MB 570-612596/5   | Method Blank                      | Total/NA  | Water          | 8015B GRO LL |            |
| LCS 570-612596/3  | Lab Control Sample                | Total/NA  | Water          | 8015B GRO LL |            |
| LCSD 570-612596/4 | Lab Control Sample Dup            | Total/NA  | Water          | 8015B GRO LL |            |

Eurofins Eaton Analytical Pomona

## QC Association Summary

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

Job ID: 380-164439-1  
SDG: Weekly: Moanalua Wells P1

### GC VOA (Continued)

#### Analysis Batch: 612596 (Continued)

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method       | Prep Batch |
|--------------------|------------------------|-----------|--------|--------------|------------|
| MRL 570-612596/6   | Lab Control Sample     | Total/NA  | Water  | 8015B GRO LL |            |
| 380-164502-C-1 MS  | Matrix Spike           | Total/NA  | Water  | 8015B GRO LL |            |
| 380-164502-C-1 MSD | Matrix Spike Duplicate | Total/NA  | Water  | 8015B GRO LL |            |

### GC Semi VOA

#### Prep Batch: 609844

| Lab Sample ID        | Client Sample ID                  | Prep Type | Matrix         | Method | Prep Batch |
|----------------------|-----------------------------------|-----------|----------------|--------|------------|
| 380-164439-1         | MOANALUA WELLS P1 (331-223-TP202) | Total/NA  | Drinking Water | 3510C  |            |
| MB 570-609844/1-A    | Method Blank                      | Total/NA  | Water          | 3510C  |            |
| LCS 570-609844/2-A   | Lab Control Sample                | Total/NA  | Water          | 3510C  |            |
| LCSD 570-609844/3-A  | Lab Control Sample Dup            | Total/NA  | Water          | 3510C  |            |
| MRL 570-609844/4-A   | Lab Control Sample                | Total/NA  | Water          | 3510C  |            |
| 380-164502-B-1-A MS  | Matrix Spike                      | Total/NA  | Water          | 3510C  |            |
| 380-164502-B-1-B MSD | Matrix Spike Duplicate            | Total/NA  | Water          | 3510C  |            |

#### Analysis Batch: 612481

| Lab Sample ID        | Client Sample ID                  | Prep Type | Matrix         | Method | Prep Batch |
|----------------------|-----------------------------------|-----------|----------------|--------|------------|
| 380-164439-1         | MOANALUA WELLS P1 (331-223-TP202) | Total/NA  | Drinking Water | 8015B  | 609844     |
| MB 570-609844/1-A    | Method Blank                      | Total/NA  | Water          | 8015B  | 609844     |
| LCS 570-609844/2-A   | Lab Control Sample                | Total/NA  | Water          | 8015B  | 609844     |
| LCSD 570-609844/3-A  | Lab Control Sample Dup            | Total/NA  | Water          | 8015B  | 609844     |
| MRL 570-609844/4-A   | Lab Control Sample                | Total/NA  | Water          | 8015B  | 609844     |
| 380-164502-B-1-A MS  | Matrix Spike                      | Total/NA  | Water          | 8015B  | 609844     |
| 380-164502-B-1-B MSD | Matrix Spike Duplicate            | Total/NA  | Water          | 8015B  | 609844     |



## Lab Chronicle

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

Job ID: 380-164439-1  
SDG: Weekly: Moanalua Wells P1

**Client Sample ID: MOANALUA WELLS P1 (331-223-TP202)**

**Lab Sample ID: 380-164439-1**

**Date Collected: 08/04/25 09:48**

**Matrix: Drinking Water**

**Date Received: 08/06/25 09:34**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab       | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|-----------|----------------------|
| Total/NA  | Prep       | 525.2        |     |                 | 167255       | KRD3    | EA POM    | 08/07/25 09:12       |
| Total/NA  | Analysis   | 525.2        |     | 1               | 167457       | Q8LA    | EA POM    | 08/08/25 13:08       |
| Total/NA  | Prep       | 625.1        |     |                 | 607569       | H1SH    | EET CAL 4 | 08/07/25 04:49       |
| Total/NA  | Analysis   | 625.1        |     | 1               | 611493       | CG      | EET CAL 4 | 08/14/25 11:07       |
| Total/NA  | Prep       | 625.1        |     |                 | 607569       | H1SH    | EET CAL 4 | 08/07/25 04:49       |
| Total/NA  | Analysis   | 625.1 SIM    |     | 1               | 610847       | PQS1    | EET CAL 4 | 08/13/25 16:16       |
| Total/NA  | Analysis   | 8015B GRO LL |     | 1               | 612596       | W4LC    | EET CAL 4 | 08/16/25 15:02       |
| Total/NA  | Prep       | 3510C        |     |                 | 609844       | TVD6    | EET CAL 4 | 08/11/25 11:43       |
| Total/NA  | Analysis   | 8015B        |     | 1               | 612481       | H6FE    | EET CAL 4 | 08/16/25 07:46       |

**Client Sample ID: TB: Moanalua Wells**

**Lab Sample ID: 380-164439-2**

**Date Collected: 08/04/25 09:48**

**Matrix: Water**

**Date Received: 08/06/25 09:34**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab       | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|-----------|----------------------|
| Total/NA  | Analysis   | 8015B GRO LL |     | 1               | 612596       | W4LC    | EET CAL 4 | 08/16/25 19:54       |

**Laboratory References:**

EA POM = Eurofins Eaton Analytical Pomona, 941 Corporate Center Drive, Pomona, CA 91768-2642, TEL (626)386-1100

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

## Accreditation/Certification Summary

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

Job ID: 380-164439-1  
SDG: Weekly: Moanalua Wells P1

### 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                  |

### 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        |

Eurofins Eaton Analytical Pomona

## Accreditation/Certification Summary

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

Job ID: 380-164439-1  
SDG: Weekly: Moanalua Wells P1

### Laboratory: Eurofins Calscience (Continued)

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

| Authority  | Program             | Identification Number | Expiration Date |
|------------|---------------------|-----------------------|-----------------|
| California | State               | 3082                  | 07-31-26        |
| Kansas     | NELAP               | E-10420               | 07-31-26        |
| Nevada     | State               | CA00111               | 07-31-26        |
| Oregon     | NELAP               | 4175                  | 02-02-26        |
| USDA       | US Federal Programs | 525-23-159-97150      | 06-08-26        |
| Utah       | NELAP               | CA00111               | 02-28-26        |
| Washington | State               | C916                  | 10-11-25        |

## Method Summary

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

Job ID: 380-164439-1  
SDG: Weekly: Moanalua Wells P1

| Method       | Method Description                           | Protocol  | Laboratory |
|--------------|----------------------------------------------|-----------|------------|
| 525.2        | Semivolatile Organic Compounds (GC/MS)       | EPA       | EA POM     |
| 625.1        | Semivolatile Organic Compounds (GC/MS)       | EPA       | EET CAL 4  |
| 625.1 SIM    | Semivolatile Organic Compounds GC/MS (SIM)   | EPA       | EET CAL 4  |
| 8015B GRO LL | Gasoline Range Organics - (GC)               | SW846     | EET CAL 4  |
| 8015B        | Diesel Range Organics (DRO) (GC) Low Level   | SW846     | EET CAL 4  |
| 3510C        | Liquid-Liquid Extraction (Separatory Funnel) | SW846     | EET CAL 4  |
| 5030C        | Purge and Trap                               | SW846     | EET CAL 4  |
| 525.2        | Extraction of Semivolatile Compounds         | EPA       | EA POM     |
| 625.1        | Liquid-Liquid Extraction                     | 40CFR136A | EET CAL 4  |

### Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

### Laboratory References:

EA POM = Eurofins 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: 380-164439-1  
SDG: Weekly: Moanalua Wells P1

| Lab Sample ID | Client Sample ID                  | Matrix         | Collected      | Received       | PWSID Number |
|---------------|-----------------------------------|----------------|----------------|----------------|--------------|
| 380-164439-1  | MOANALUA WELLS P1 (331-223-TP202) | Drinking Water | 08/04/25 09:48 | 08/06/25 09:34 | HI0000331    |
| 380-164439-2  | TB: Moanalua Wells                | Water          | 08/04/25 09:48 | 08/06/25 09:34 |              |

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

[illegible]





Loc: 380  
164439



380-164439 Chain of Custody

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

### Possible Hazard Identification

**Unconfirmed**

Deliverable Requested: I, II, III, IV, Other (specify)

Primary Deliverable Rank: 2

**Sample Disposal** ( A fee may be assessed if samples are retained longer than 1 month)

☐ Disposal By Lab Archive For  Months

Special Instructions/QC Requirements:

Empty Kit Relinquished by:

Date:

Time:

**Method of Shipment:**

Relinquished by: Mark McCutcheon

Date/Time: 8/16/25 1525

|         |      |
|---------|------|
| Company | FEAR |
|---------|------|

Received by: 

Date/Time: 6-25 1520

Company WP

Relinquished by: \_\_\_\_\_

Date/Time: 8.6.25 1628

|         |  |
|---------|--|
| Company |  |
|---------|--|

Received by: 

|           |        |      |
|-----------|--------|------|
| Date/Time | 8/6/25 | 1628 |
|-----------|--------|------|

Company EC

|                  |  |
|------------------|--|
| Relinquished by: |  |
|------------------|--|

Date/Time:

|         |  |
|---------|--|
| Company |  |
|---------|--|

Received by:

Date/Time:

|         |  |
|---------|--|
| Company |  |
|---------|--|

**Custody Seals Intact:**

☐ Yes ☐ No

Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

1.5/1.8 sec

## Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-164439-1

SDG Number: Weekly: Moanalua Wells P1

Login Number: 164439

List Source: Eurofins Eaton Analytical Pomona

List Number: 1

Creator: Hernandez, Orlando

| 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").  | N/A    |         |
| CIO4 headspace requirement met (>50% for CA, >30% for other states).             | N/A    |         |
| Samples do not require splitting or compositing.                                 | True   |         |
| Container provided by EEA                                                        | True   |         |



## Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-164439-1  
SDG Number: Weekly: Moanalua Wells P1

**Login Number: 164439**

**List Number: 2**

**Creator: Khana, Piyush**

**List Source: Eurofins Calscience**

**List Creation: 08/06/25 07:39 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   | 1.8                                |
| 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.                                                               | False  |                                    |