eurofins | Environment Testing

# ANALYTICAL REPORT

## PREPARED FOR

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City & County of Honolulu
630 South Beretania Street
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Honolulu, Hawaii 96843

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## JOB DESCRIPTION

RED-HILL
Weekly: Ka'amilo Wells Pump 1/Pump2

## JOB NUMBER

380-170506-1

Eurofins Eaton Analytical Pomona
941 Corporate Center Drive
Pomona CA 91768-2642

See page two for job notes and contact information.



my EOL

# Eurofins Eaton Analytical Pomona

## Job Notes

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

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

## Compliance Statement

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

## Authorization

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Authorized for release by
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# Table of Contents

# Definitions/Glossary

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

Job ID: 380-170506-1
SDG: Weekly: Ka'amilo Wells Pump 1/Pump2

## 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. |

### GC Semi VOA

| Qualifier | Qualifier Description |
|---|---|
| ^3+ | Reporting Limit Check Standard is outside acceptance limits, high biased |

## 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 |

**Job Narrative**
**380-170506-1**

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

**Receipt**
The samples were received on 9/10/2025 9:35 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.7°C and 3.2°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**
Method 8015B_DRO_LL_CS: The method reporting limit check (MRL) for preparation batch 570-625548 and analytical batch 570-626815 recovered outside control limits for the following analytes: C10-C28. These analytes were biased high in the MRL and were not detected in the associated samples; therefore, the data have been reported.

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

# Detection Summary

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

Job ID: 380-170506-1
SDG: Weekly: Ka'amilo Wells Pump 1/Pump2

## Client Sample ID: Ka'amilo Wells Pump 1 — Lab Sample ID: 380-170506-1

| Analyte | Result | Qualifier | RL | | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Dieldrin | 0.074 | | 0.0099 | | ug/L | 1 | | 525.2 | Total/NA |
| Heptachlor epoxide (isomer B) | 0.014 | | 0.0099 | | ug/L | 1 | | 525.2 | Total/NA |

## Client Sample ID: TB: Ka'amilo Wells Pump 1 — Lab Sample ID: 380-170506-2

No Detections.

## Client Sample ID: Ka'amilo Wells Pump 2 — Lab Sample ID: 380-170506-3

| Analyte | Result | Qualifier | RL | | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Dieldrin | 0.074 | | 0.0097 | | ug/L | 1 | | 525.2 | Total/NA |
| Heptachlor epoxide (isomer B) | 0.014 | | 0.0097 | | ug/L | 1 | | 525.2 | Total/NA |

## Client Sample ID: TB: Ka'amilo Wells Pump 2 — Lab Sample ID: 380-170506-4

No Detections.

This Detection Summary does not include radiochemical test results.

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

Job ID: 380-170506-1
SDG: Weekly: Ka'amilo Wells Pump 1/Pump2

**Client Sample ID: Ka'amilo Wells Pump 1**
**Date Collected: 09/08/25 11:53**
**Date Received: 09/10/25 09:35**

**Lab Sample ID: 380-170506-1**
**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1-Methylnaphthalene | <0.099 | | 0.099 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:05 | 1 |
| 2,4'-DDD | <0.099 | | 0.099 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:05 | 1 |
| 2,4'-DDE | <0.099 | | 0.099 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:05 | 1 |
| 2,4'-DDT | <0.099 | | 0.099 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:05 | 1 |
| 2,4-Dinitrotoluene | <0.099 | | 0.099 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:05 | 1 |
| 2,6-Dinitrotoluene | <0.099 | | 0.099 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:05 | 1 |
| 2-Methylnaphthalene | <0.099 | | 0.099 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:05 | 1 |
| 4,4'-DDD | <0.099 | | 0.099 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:05 | 1 |
| 4,4'-DDE | <0.099 | | 0.099 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:05 | 1 |
| 4,4'-DDT | <0.099 | | 0.099 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:05 | 1 |
| Acenaphthene | <0.099 | | 0.099 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:05 | 1 |
| Acenaphthylene | <0.099 | | 0.099 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:05 | 1 |
| Acetochlor | <0.099 | | 0.099 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:05 | 1 |
| Alachlor | <0.049 | | 0.049 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:05 | 1 |
| alpha-BHC | <0.099 | | 0.099 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:05 | 1 |
| alpha-Chlordane | <0.049 | | 0.049 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:05 | 1 |
| Anthracene | <0.020 | | 0.020 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:05 | 1 |
| Atrazine | <0.049 | | 0.049 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:05 | 1 |
| Benz(a)anthracene | <0.049 | | 0.049 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:05 | 1 |
| Benzo[a]pyrene | <0.020 | | 0.020 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:05 | 1 |
| Benzo[b]fluoranthene | <0.020 | | 0.020 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:05 | 1 |
| Benzo[g,h,i]perylene | <0.049 | | 0.049 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:05 | 1 |
| Benzo[k]fluoranthene | <0.020 | | 0.020 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:05 | 1 |
| beta-BHC | <0.099 | | 0.099 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:05 | 1 |
| Bis(2-ethylhexyl) phthalate | <0.59 | | 0.59 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:05 | 1 |
| Bromacil | <0.099 | | 0.099 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:05 | 1 |
| Butachlor | <0.049 | | 0.049 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:05 | 1 |
| Butylbenzylphthalate | <0.49 | | 0.49 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:05 | 1 |
| Chlorobenzilate | <0.099 | | 0.099 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:05 | 1 |
| Chloroneb | <0.099 | | 0.099 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:05 | 1 |
| Chlorothalonil (Draconil, Bravo) | <0.099 | | 0.099 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:05 | 1 |
| Chlorpyrifos | <0.049 | | 0.049 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:05 | 1 |
| Chrysene | <0.020 | | 0.020 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:05 | 1 |
| delta-BHC | <0.099 | | 0.099 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:05 | 1 |
| Di(2-ethylhexyl)adipate | <0.59 | | 0.59 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:05 | 1 |
| Dibenz(a,h)anthracene | <0.049 | | 0.049 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:05 | 1 |
| Diclorvos (DDVP) | <0.049 | | 0.049 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:05 | 1 |
| **Dieldrin** | **0.074** | | 0.0099 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:05 | 1 |
| Diethylphthalate | <0.49 | | 0.49 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:05 | 1 |
| Dimethylphthalate | <0.49 | | 0.49 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:05 | 1 |
| Di-n-butyl phthalate | <0.99 | | 0.99 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:05 | 1 |
| Di-n-octyl phthalate | <0.099 | | 0.099 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:05 | 1 |
| Endosulfan I (Alpha) | <0.099 | | 0.099 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:05 | 1 |
| Endosulfan II (Beta) | <0.099 | | 0.099 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:05 | 1 |
| Endosulfan sulfate | <0.099 | | 0.099 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:05 | 1 |
| Endrin | <0.0099 | | 0.0099 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:05 | 1 |
| Endrin aldehyde | <0.099 | | 0.099 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:05 | 1 |
| EPTC | <0.099 | | 0.099 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:05 | 1 |
| Fluoranthene | <0.099 | | 0.099 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:05 | 1 |

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

Job ID: 380-170506-1
SDG: Weekly: Ka'amilo Wells Pump 1/Pump2

**Client Sample ID: Ka'amilo Wells Pump 1**
**Date Collected: 09/08/25 11:53**
**Date Received: 09/10/25 09:35**

**Lab Sample ID: 380-170506-1**
**Matrix: Water**

## 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 | | 09/11/25 09:20 | 09/12/25 13:05 | 1 |
| gamma-Chlordane | <0.049 | | 0.049 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:05 | 1 |
| Heptachlor | <0.0099 | | 0.0099 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:05 | 1 |
| **Heptachlor epoxide (isomer B)** | **0.014** | | 0.0099 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:05 | 1 |
| Hexachlorobenzene | <0.049 | | 0.049 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:05 | 1 |
| Hexachlorocyclopentadiene | <0.049 | | 0.049 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:05 | 1 |
| Indeno[1,2,3-cd]pyrene | <0.049 | | 0.049 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:05 | 1 |
| Isophorone | <0.099 | | 0.099 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:05 | 1 |
| Lindane | <0.0099 | | 0.0099 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:05 | 1 |
| Malathion | <0.099 | | 0.099 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:05 | 1 |
| Methoxychlor | <0.049 | | 0.049 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:05 | 1 |
| Metolachlor | <0.049 | | 0.049 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:05 | 1 |
| Molinate | <0.099 | | 0.099 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:05 | 1 |
| Naphthalene | <0.099 | | 0.099 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:05 | 1 |
| Parathion | <0.099 | | 0.099 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:05 | 1 |
| Pendimethalin (Penoxaline) | <0.099 | | 0.099 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:05 | 1 |
| Phenanthrene | <0.039 | | 0.039 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:05 | 1 |
| Propachlor | <0.049 | | 0.049 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:05 | 1 |
| Pyrene | <0.049 | | 0.049 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:05 | 1 |
| Simazine | <0.049 | | 0.049 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:05 | 1 |
| Terbacil | <0.099 | | 0.099 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:05 | 1 |
| Terbuthylazine | <0.099 | | 0.099 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:05 | 1 |
| Thiobencarb | <0.099 | | 0.099 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:05 | 1 |
| Total Permethrin (mixed isomers) | <0.20 | | 0.20 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:05 | 1 |
| trans-Nonachlor | <0.049 | | 0.049 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:05 | 1 |
| Trifluralin | <0.099 | | 0.099 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:05 | 1 |

| *Tentatively Identified Compound* | *Est. Result* | *Qualifier* | *Unit* | *D* | *RT* | *CAS No.* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|---|---|---|
| *Tentatively Identified Compound* | *None* | | *ug/L* | | | *N/A* | *09/11/25 09:20* | *09/12/25 13:05* | *1* |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2-Nitro-m-xylene* | *98* | | *70 - 130* | *09/11/25 09:20* | *09/12/25 13:05* | *1* |
| *Perylene-d12* | *90* | | *70 - 130* | *09/11/25 09:20* | *09/12/25 13:05* | *1* |
| *Triphenylphosphate* | *108* | | *70 - 130* | *09/11/25 09:20* | *09/12/25 13:05* | *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 | | 09/15/25 04:33 | 09/17/25 20:14 | 1 |
| 2-Methylnaphthalene | <0.19 | | 0.19 | | ug/L | | 09/15/25 04:33 | 09/17/25 20:14 | 1 |
| Acenaphthene | <0.19 | | 0.19 | | ug/L | | 09/15/25 04:33 | 09/17/25 20:14 | 1 |
| Acenaphthylene | <0.19 | | 0.19 | | ug/L | | 09/15/25 04:33 | 09/17/25 20:14 | 1 |
| Anthracene | <0.19 | | 0.19 | | ug/L | | 09/15/25 04:33 | 09/17/25 20:14 | 1 |
| Benzo[a]anthracene | <0.19 | | 0.19 | | ug/L | | 09/15/25 04:33 | 09/17/25 20:14 | 1 |
| Benzo[a]pyrene | <0.19 | | 0.19 | | ug/L | | 09/15/25 04:33 | 09/17/25 20:14 | 1 |
| Benzo[b]fluoranthene | <0.19 | | 0.19 | | ug/L | | 09/15/25 04:33 | 09/17/25 20:14 | 1 |
| Benzo[g,h,i]perylene | <0.19 | | 0.19 | | ug/L | | 09/15/25 04:33 | 09/17/25 20:14 | 1 |
| Benzo[k]fluoranthene | <0.19 | | 0.19 | | ug/L | | 09/15/25 04:33 | 09/17/25 20:14 | 1 |
| Chrysene | <0.19 | | 0.19 | | ug/L | | 09/15/25 04:33 | 09/17/25 20:14 | 1 |
| Dibenz(a,h)anthracene | <0.19 | | 0.19 | | ug/L | | 09/15/25 04:33 | 09/17/25 20:14 | 1 |
| Fluoranthene | <0.19 | | 0.19 | | ug/L | | 09/15/25 04:33 | 09/17/25 20:14 | 1 |

## Client Sample ID: Ka'amilo Wells Pump 1

**Lab Sample ID: 380-170506-1**

**Date Collected: 09/08/25 11:53**
**Matrix: Water**
**Date Received: 09/10/25 09:35**

### 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 | | 09/15/25 04:33 | 09/17/25 20:14 | 1 |
| Indeno[1,2,3-cd]pyrene | <0.19 | | 0.19 | | ug/L | | 09/15/25 04:33 | 09/17/25 20:14 | 1 |
| Naphthalene | <0.19 | | 0.19 | | ug/L | | 09/15/25 04:33 | 09/17/25 20:14 | 1 |
| Phenanthrene | <0.19 | | 0.19 | | ug/L | | 09/15/25 04:33 | 09/17/25 20:14 | 1 |
| Pyrene | <0.19 | | 0.19 | | ug/L | | 09/15/25 04:33 | 09/17/25 20:14 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2,4,6-Tribromophenol (Surr)* | *76* | | *28 - 127* | *09/15/25 04:33* | *09/17/25 20:14* | *1* |
| *2-Fluorobiphenyl (Surr)* | *75* | | *31 - 120* | *09/15/25 04:33* | *09/17/25 20:14* | *1* |
| *2-Fluorophenol (Surr)* | *40* | | *17 - 120* | *09/15/25 04:33* | *09/17/25 20:14* | *1* |
| *Nitrobenzene-d5 (Surr)* | *70* | | *27 - 120* | *09/15/25 04:33* | *09/17/25 20:14* | *1* |
| *Phenol-d6 (Surr)* | *23* | | *10 - 120* | *09/15/25 04:33* | *09/17/25 20:14* | *1* |
| *p-Terphenyl-d14 (Surr)* | *82* | | *45 - 120* | *09/15/25 04:33* | *09/17/25 20:14* | *1* |

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

| *Tentatively Identified Compound* | *Est. Result* | *Qualifier* | *Unit* | *D* | *RT* | *CAS No.* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|---|---|---|
| *Tentatively Identified Compound* | *None* | | *ug/L* | | | *N/A* | *09/15/25 04:33* | *09/22/25 11:26* | *1* |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2,4,6-Tribromophenol (Surr)* | *74* | | *33 - 139* | *09/15/25 04:33* | *09/22/25 11:26* | *1* |
| *2-Fluorobiphenyl (Surr)* | *77* | | *33 - 126* | *09/15/25 04:33* | *09/22/25 11:26* | *1* |
| *2-Fluorophenol (Surr)* | *42* | | *12 - 120* | *09/15/25 04:33* | *09/22/25 11:26* | *1* |
| *Nitrobenzene-d5 (Surr)* | *77* | | *36 - 120* | *09/15/25 04:33* | *09/22/25 11:26* | *1* |
| *Phenol-d6 (Surr)* | *24* | | *10 - 120* | *09/15/25 04:33* | *09/22/25 11:26* | *1* |
| *p-Terphenyl-d14 (Surr)* | *86* | | *47 - 131* | *09/15/25 04:33* | *09/22/25 11:26* | *1* |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| GRO (C6-C10) | <10 | | 10 | | ug/L | | | 09/13/25 19:42 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *95* | | *38 - 134* | | *09/13/25 19:42* | *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 | | 09/15/25 09:17 | 09/17/25 15:08 | 1 |
| Motor Oil Range Organics [C24-C36] | <25 | | 25 | | ug/L | | 09/15/25 09:17 | 09/17/25 15:08 | 1 |
| C8-C18 | <25 | | 25 | | ug/L | | 09/15/25 09:17 | 09/17/25 15:08 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane (Surr)* | *103* | | *60 - 130* | *09/15/25 09:17* | *09/17/25 15:08* | *1* |

## Client Sample ID: TB: Ka'amilo Wells Pump 1

**Lab Sample ID: 380-170506-2**

**Date Collected: 09/08/25 11:53**
**Matrix: Water**
**Date Received: 09/10/25 09:35**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| GRO (C6-C10) | <10 | | 10 | | ug/L | | | 09/13/25 23:22 | 1 |

## Client Sample ID: TB: Ka'amilo Wells Pump 1

**Lab Sample ID: 380-170506-2**

**Date Collected: 09/08/25 11:53**
**Matrix: Water**
**Date Received: 09/10/25 09:35**

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *96* | | *38 - 134* | | *09/13/25 23:22* | *1* |

## Client Sample ID: Ka'amilo Wells Pump 2

**Lab Sample ID: 380-170506-3**

**Date Collected: 09/08/25 12:38**
**Matrix: Water**
**Date Received: 09/10/25 09:35**

### 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 | | 09/11/25 09:20 | 09/12/25 13:25 | 1 |
| 2,4'-DDD | <0.097 | | 0.097 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:25 | 1 |
| 2,4'-DDE | <0.097 | | 0.097 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:25 | 1 |
| 2,4'-DDT | <0.097 | | 0.097 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:25 | 1 |
| 2,4-Dinitrotoluene | <0.097 | | 0.097 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:25 | 1 |
| 2,6-Dinitrotoluene | <0.097 | | 0.097 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:25 | 1 |
| 2-Methylnaphthalene | <0.097 | | 0.097 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:25 | 1 |
| 4,4'-DDD | <0.097 | | 0.097 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:25 | 1 |
| 4,4'-DDE | <0.097 | | 0.097 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:25 | 1 |
| 4,4'-DDT | <0.097 | | 0.097 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:25 | 1 |
| Acenaphthene | <0.097 | | 0.097 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:25 | 1 |
| Acenaphthylene | <0.097 | | 0.097 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:25 | 1 |
| Acetochlor | <0.097 | | 0.097 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:25 | 1 |
| Alachlor | <0.049 | | 0.049 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:25 | 1 |
| alpha-BHC | <0.097 | | 0.097 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:25 | 1 |
| alpha-Chlordane | <0.049 | | 0.049 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:25 | 1 |
| Anthracene | <0.019 | | 0.019 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:25 | 1 |
| Atrazine | <0.049 | | 0.049 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:25 | 1 |
| Benz(a)anthracene | <0.049 | | 0.049 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:25 | 1 |
| Benzo[a]pyrene | <0.019 | | 0.019 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:25 | 1 |
| Benzo[b]fluoranthene | <0.019 | | 0.019 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:25 | 1 |
| Benzo[g,h,i]perylene | <0.049 | | 0.049 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:25 | 1 |
| Benzo[k]fluoranthene | <0.019 | | 0.019 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:25 | 1 |
| beta-BHC | <0.097 | | 0.097 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:25 | 1 |
| Bis(2-ethylhexyl) phthalate | <0.58 | | 0.58 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:25 | 1 |
| Bromacil | <0.097 | | 0.097 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:25 | 1 |
| Butachlor | <0.049 | | 0.049 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:25 | 1 |
| Butylbenzylphthalate | <0.49 | | 0.49 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:25 | 1 |
| Chlorobenzilate | <0.097 | | 0.097 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:25 | 1 |
| Chloroneb | <0.097 | | 0.097 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:25 | 1 |
| Chlorothalonil (Draconil, Bravo) | <0.097 | | 0.097 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:25 | 1 |
| Chlorpyrifos | <0.049 | | 0.049 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:25 | 1 |
| Chrysene | <0.019 | | 0.019 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:25 | 1 |
| delta-BHC | <0.097 | | 0.097 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:25 | 1 |
| Di(2-ethylhexyl)adipate | <0.58 | | 0.58 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:25 | 1 |
| Dibenz(a,h)anthracene | <0.049 | | 0.049 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:25 | 1 |
| Diclorvos (DDVP) | <0.049 | | 0.049 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:25 | 1 |
| **Dieldrin** | **0.074** | | 0.0097 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:25 | 1 |
| Diethylphthalate | <0.49 | | 0.49 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:25 | 1 |
| Dimethylphthalate | <0.49 | | 0.49 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:25 | 1 |
| Di-n-butyl phthalate | <0.97 | | 0.97 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:25 | 1 |
| Di-n-octyl phthalate | <0.097 | | 0.097 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:25 | 1 |

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

Job ID: 380-170506-1
SDG: Weekly: Ka'amilo Wells Pump 1/Pump2

**Client Sample ID: Ka'amilo Wells Pump 2**
**Date Collected: 09/08/25 12:38**
**Date Received: 09/10/25 09:35**

**Lab Sample ID: 380-170506-3**
**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Endosulfan I (Alpha) | <0.097 | | 0.097 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:25 | 1 |
| Endosulfan II (Beta) | <0.097 | | 0.097 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:25 | 1 |
| Endosulfan sulfate | <0.097 | | 0.097 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:25 | 1 |
| Endrin | <0.0097 | | 0.0097 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:25 | 1 |
| Endrin aldehyde | <0.097 | | 0.097 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:25 | 1 |
| EPTC | <0.097 | | 0.097 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:25 | 1 |
| Fluoranthene | <0.097 | | 0.097 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:25 | 1 |
| Fluorene | <0.049 | | 0.049 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:25 | 1 |
| gamma-Chlordane | <0.049 | | 0.049 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:25 | 1 |
| Heptachlor | <0.0097 | | 0.0097 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:25 | 1 |
| **Heptachlor epoxide (isomer B)** | **0.014** | | 0.0097 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:25 | 1 |
| Hexachlorobenzene | <0.049 | | 0.049 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:25 | 1 |
| Hexachlorocyclopentadiene | <0.049 | | 0.049 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:25 | 1 |
| Indeno[1,2,3-cd]pyrene | <0.049 | | 0.049 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:25 | 1 |
| Isophorone | <0.097 | | 0.097 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:25 | 1 |
| Lindane | <0.0097 | | 0.0097 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:25 | 1 |
| Malathion | <0.097 | | 0.097 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:25 | 1 |
| Methoxychlor | <0.049 | | 0.049 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:25 | 1 |
| Metolachlor | <0.049 | | 0.049 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:25 | 1 |
| Molinate | <0.097 | | 0.097 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:25 | 1 |
| Naphthalene | <0.097 | | 0.097 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:25 | 1 |
| Parathion | <0.097 | | 0.097 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:25 | 1 |
| Pendimethalin (Penoxaline) | <0.097 | | 0.097 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:25 | 1 |
| Phenanthrene | <0.039 | | 0.039 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:25 | 1 |
| Propachlor | <0.049 | | 0.049 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:25 | 1 |
| Pyrene | <0.049 | | 0.049 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:25 | 1 |
| Simazine | <0.049 | | 0.049 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:25 | 1 |
| Terbacil | <0.097 | | 0.097 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:25 | 1 |
| Terbuthylazine | <0.097 | | 0.097 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:25 | 1 |
| Thiobencarb | <0.097 | | 0.097 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:25 | 1 |
| Total Permethrin (mixed isomers) | <0.19 | | 0.19 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:25 | 1 |
| trans-Nonachlor | <0.049 | | 0.049 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:25 | 1 |
| Trifluralin | <0.097 | | 0.097 | | ug/L | | 09/11/25 09:20 | 09/12/25 13:25 | 1 |

| *Tentatively Identified Compound* | *Est. Result* | *Qualifier* | *Unit* | *D* | *RT* | *CAS No.* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|---|---|---|
| *Tentatively Identified Compound* | *None* | | *ug/L* | | | *N/A* | *09/11/25 09:20* | *09/12/25 13:25* | *1* |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2-Nitro-m-xylene* | *99* | | *70 - 130* | *09/11/25 09:20* | *09/12/25 13:25* | *1* |
| *Perylene-d12* | *88* | | *70 - 130* | *09/11/25 09:20* | *09/12/25 13:25* | *1* |
| *Triphenylphosphate* | *111* | | *70 - 130* | *09/11/25 09:20* | *09/12/25 13:25* | *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 | | 09/15/25 04:33 | 09/17/25 20:36 | 1 |
| 2-Methylnaphthalene | <0.19 | | 0.19 | | ug/L | | 09/15/25 04:33 | 09/17/25 20:36 | 1 |
| Acenaphthene | <0.19 | | 0.19 | | ug/L | | 09/15/25 04:33 | 09/17/25 20:36 | 1 |
| Acenaphthylene | <0.19 | | 0.19 | | ug/L | | 09/15/25 04:33 | 09/17/25 20:36 | 1 |
| Anthracene | <0.19 | | 0.19 | | ug/L | | 09/15/25 04:33 | 09/17/25 20:36 | 1 |
| Benzo[a]anthracene | <0.19 | | 0.19 | | ug/L | | 09/15/25 04:33 | 09/17/25 20:36 | 1 |

## Client Sample ID: Ka'amilo Wells Pump 2

**Date Collected: 09/08/25 12:38**
**Date Received: 09/10/25 09:35**

## Lab Sample ID: 380-170506-3

**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzo[a]pyrene | <0.19 | | 0.19 | | ug/L | | 09/15/25 04:33 | 09/17/25 20:36 | 1 |
| Benzo[b]fluoranthene | <0.19 | | 0.19 | | ug/L | | 09/15/25 04:33 | 09/17/25 20:36 | 1 |
| Benzo[g,h,i]perylene | <0.19 | | 0.19 | | ug/L | | 09/15/25 04:33 | 09/17/25 20:36 | 1 |
| Benzo[k]fluoranthene | <0.19 | | 0.19 | | ug/L | | 09/15/25 04:33 | 09/17/25 20:36 | 1 |
| Chrysene | <0.19 | | 0.19 | | ug/L | | 09/15/25 04:33 | 09/17/25 20:36 | 1 |
| Dibenz(a,h)anthracene | <0.19 | | 0.19 | | ug/L | | 09/15/25 04:33 | 09/17/25 20:36 | 1 |
| Fluoranthene | <0.19 | | 0.19 | | ug/L | | 09/15/25 04:33 | 09/17/25 20:36 | 1 |
| Fluorene | <0.19 | | 0.19 | | ug/L | | 09/15/25 04:33 | 09/17/25 20:36 | 1 |
| Indeno[1,2,3-cd]pyrene | <0.19 | | 0.19 | | ug/L | | 09/15/25 04:33 | 09/17/25 20:36 | 1 |
| Naphthalene | <0.19 | | 0.19 | | ug/L | | 09/15/25 04:33 | 09/17/25 20:36 | 1 |
| Phenanthrene | <0.19 | | 0.19 | | ug/L | | 09/15/25 04:33 | 09/17/25 20:36 | 1 |
| Pyrene | <0.19 | | 0.19 | | ug/L | | 09/15/25 04:33 | 09/17/25 20:36 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2,4,6-Tribromophenol (Surr)* | *71* | | *28 - 127* | *09/15/25 04:33* | *09/17/25 20:36* | *1* |
| *2-Fluorobiphenyl (Surr)* | *59* | | *31 - 120* | *09/15/25 04:33* | *09/17/25 20:36* | *1* |
| *2-Fluorophenol (Surr)* | *33* | | *17 - 120* | *09/15/25 04:33* | *09/17/25 20:36* | *1* |
| *Nitrobenzene-d5 (Surr)* | *51* | | *27 - 120* | *09/15/25 04:33* | *09/17/25 20:36* | *1* |
| *Phenol-d6 (Surr)* | *20* | | *10 - 120* | *09/15/25 04:33* | *09/17/25 20:36* | *1* |
| *p-Terphenyl-d14 (Surr)* | *71* | | *45 - 120* | *09/15/25 04:33* | *09/17/25 20:36* | *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* |
|---|---|---|---|---|---|---|---|---|---|
| *Nonanal* | *8.9* | *T J N* | *ug/L* | | *3.93* | *124-19-6* | *09/15/25 04:33* | *09/22/25 11:50* | *1* |
| *Tetradecanoic acid* | *17* | *T J N* | *ug/L* | | *8.19* | *544-63-8* | *09/15/25 04:33* | *09/22/25 11:50* | *1* |
| *n-Hexadecanoic acid* | *18* | *T J N* | *ug/L* | | *9.29* | *57-10-3* | *09/15/25 04:33* | *09/22/25 11:50* | *1* |
| *Oleic Acid* | *8.2* | *T J N* | *ug/L* | | *10.10* | *112-80-1* | *09/15/25 04:33* | *09/22/25 11:50* | *1* |
| *9-Octadecenoic acid, (E)-* | *11* | *T J N* | *ug/L* | | *10.13* | *112-79-8* | *09/15/25 04:33* | *09/22/25 11:50* | *1* |
| *Octadecanoic acid* | *77* | *T J N* | *ug/L* | | *10.20* | *57-11-4* | *09/15/25 04:33* | *09/22/25 11:50* | *1* |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2,4,6-Tribromophenol (Surr)* | *68* | | *33 - 139* | *09/15/25 04:33* | *09/22/25 11:50* | *1* |
| *2-Fluorobiphenyl (Surr)* | *61* | | *33 - 126* | *09/15/25 04:33* | *09/22/25 11:50* | *1* |
| *2-Fluorophenol (Surr)* | *35* | | *12 - 120* | *09/15/25 04:33* | *09/22/25 11:50* | *1* |
| *Nitrobenzene-d5 (Surr)* | *59* | | *36 - 120* | *09/15/25 04:33* | *09/22/25 11:50* | *1* |
| *Phenol-d6 (Surr)* | *20* | | *10 - 120* | *09/15/25 04:33* | *09/22/25 11:50* | *1* |
| *p-Terphenyl-d14 (Surr)* | *81* | | *47 - 131* | *09/15/25 04:33* | *09/22/25 11:50* | *1* |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| GRO (C6-C10) | <10 | | 10 | | ug/L | | | 09/13/25 20:02 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *98* | | *38 - 134* | | *09/13/25 20:02* | *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 | | 09/15/25 09:17 | 09/17/25 15:30 | 1 |
| Motor Oil Range Organics [C24-C36] | <25 | | 25 | | ug/L | | 09/15/25 09:17 | 09/17/25 15:30 | 1 |
| C8-C18 | <25 | | 25 | | ug/L | | 09/15/25 09:17 | 09/17/25 15:30 | 1 |

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

Job ID: 380-170506-1
SDG: Weekly: Ka'amilo Wells Pump 1/Pump2

## Client Sample ID: Ka'amilo Wells Pump 2

**Lab Sample ID: 380-170506-3**

**Date Collected: 09/08/25 12:38**
**Matrix: Water**
**Date Received: 09/10/25 09:35**

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *n-Octacosane (Surr)* | *95* | | *60 - 130* | *09/15/25 09:17* | *09/17/25 15:30* | *1* |

## Client Sample ID: TB: Ka'amilo Wells Pump 2

**Lab Sample ID: 380-170506-4**

**Date Collected: 09/08/25 12:38**
**Matrix: Water**
**Date Received: 09/10/25 09:35**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| GRO (C6-C10) | <10 | | 10 | | ug/L | | | 09/13/25 23:42 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *100* | | *38 - 134* | | *09/13/25 23:42* | *1* |

# Action Limit Summary

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

Job ID: 380-170506-1
SDG: Weekly: Ka'amilo Wells Pump 1/Pump2

## Client Sample ID: Ka'amilo Wells Pump 1 — Lab Sample ID: 380-170506-1

### Compliance Check

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

| Analyte | Result | Qualifier | Unit | EPAMCL Limit | RL | Method | Prep Type |
|---|---|---|---|---|---|---|---|
| Alachlor | <0.049 | | ug/L | 2 | 0.049 | 525.2 | Total/NA |
| Atrazine | <0.049 | | ug/L | 3 | 0.049 | 525.2 | Total/NA |
| Benzo[a]pyrene | <0.020 | | ug/L | 0.2 | 0.020 | 525.2 | Total/NA |
| Bis(2-ethylhexyl) phthalate | <0.59 | | ug/L | 6 | 0.59 | 525.2 | Total/NA |
| Di(2-ethylhexyl)adipate | <0.59 | | ug/L | 400 | 0.59 | 525.2 | Total/NA |
| Endrin | <0.0099 | | ug/L | 2 | 0.0099 | 525.2 | Total/NA |
| Heptachlor | <0.0099 | | ug/L | 0.4 | 0.0099 | 525.2 | Total/NA |
| Heptachlor epoxide (isomer B) | 0.014 | | ug/L | 0.2 | 0.0099 | 525.2 | Total/NA |
| Hexachlorobenzene | <0.049 | | ug/L | 1 | 0.049 | 525.2 | Total/NA |
| Hexachlorocyclopentadiene | <0.049 | | ug/L | 50 | 0.049 | 525.2 | Total/NA |
| Lindane | <0.0099 | | ug/L | 0.2 | 0.0099 | 525.2 | Total/NA |
| Methoxychlor | <0.049 | | ug/L | 40 | 0.049 | 525.2 | Total/NA |
| Simazine | <0.049 | | ug/L | 4 | 0.049 | 525.2 | Total/NA |
| Benzo[a]pyrene | <0.19 | | ug/L | 0.2 | 0.19 | 625.1 SIM | Total/NA |

## Client Sample ID: Ka'amilo Wells Pump 2 — Lab Sample ID: 380-170506-3

### Compliance Check

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

| Analyte | Result | Qualifier | Unit | EPAMCL Limit | RL | Method | Prep Type |
|---|---|---|---|---|---|---|---|
| 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) | 0.014 | | 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: 380-170506-1
SDG: Weekly: Ka'amilo Wells Pump 1/Pump2

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

**Matrix: Water** — **Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 2NMX | PRY | TPP | | | | | | |
| Lab Sample ID | Client Sample ID | (70-130) | (70-130) | (70-130) | | | | | | |
| 380-170490-P-1-A MS | Matrix Spike | 103 | 95 | 89 | | | | | | |
| 380-170493-I-1-A DU | Duplicate | 100 | 90 | 103 | | | | | | |
| 380-170506-1 | Ka'amilo Wells Pump 1 | 98 | 90 | 108 | | | | | | |
| 380-170506-3 | Ka'amilo Wells Pump 2 | 99 | 88 | 111 | | | | | | |
| LCS 380-173515/22-A | Lab Control Sample | 96 | 91 | 105 | | | | | | |
| MB 380-173515/20-A | Method Blank | 98 | 93 | 106 | | | | | | |
| MRL 380-173515/21-A | Lab Control Sample | 98 | 87 | 103 | | | | | | |

**Surrogate Legend**

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

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

**Matrix: Water** — **Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | TBP | FBP | 2FP | NBZ | PHL6 | TPHd14 | | |
| Lab Sample ID | Client Sample ID | (33-139) | (33-126) | (12-120) | (36-120) | (10-120) | (47-131) | | |
| 380-170506-1 | Ka'amilo Wells Pump 1 | 74 | 77 | 42 | 77 | 24 | 86 | | |
| 380-170506-3 | Ka'amilo Wells Pump 2 | 68 | 61 | 35 | 59 | 20 | 81 | | |
| MB 570-625449/1-A | Method Blank | 68 | 67 | 49 | 70 | 28 | 73 | | |

**Surrogate Legend**

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

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

**Matrix: Water** — **Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | TBP | FBP | 2FP | NBZ | PHL6 | TPHd14 | | |
| Lab Sample ID | Client Sample ID | (28-127) | (31-120) | (17-120) | (27-120) | (10-120) | (45-120) | | |
| 380-170493-A-1-A MS | Matrix Spike | 80 | 78 | 55 | 64 | 35 | 78 | | |
| 380-170493-A-1-B MSD | Matrix Spike Duplicate | 71 | 73 | 52 | 61 | 33 | 71 | | |
| 380-170506-1 | Ka'amilo Wells Pump 1 | 76 | 75 | 40 | 70 | 23 | 82 | | |
| 380-170506-3 | Ka'amilo Wells Pump 2 | 71 | 59 | 33 | 51 | 20 | 71 | | |
| LCS 570-625449/2-A | Lab Control Sample | 66 | 66 | 48 | 56 | 31 | 68 | | |
| LCSD 570-625449/3-A | Lab Control Sample Dup | 78 | 79 | 57 | 66 | 37 | 77 | | |
| MB 570-625449/1-A | Method Blank | 75 | 69 | 47 | 67 | 29 | 73 | | |

**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)

# Surrogate Summary

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

Job ID: 380-170506-1
SDG: Weekly: Ka'amilo Wells Pump 1/Pump2

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

**Matrix: Water** **Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | BFB1 | | | | | | | |
| Lab Sample ID | Client Sample ID | (38-134) | | | | | | | |
| 380-170493-B-1 MS | Matrix Spike | 102 | | | | | | | |
| 380-170493-B-1 MSD | Matrix Spike Duplicate | 98 | | | | | | | |
| 380-170506-1 | Ka'amilo Wells Pump 1 | 95 | | | | | | | |
| 380-170506-2 | TB: Ka'amilo Wells Pump 1 | 96 | | | | | | | |
| 380-170506-3 | Ka'amilo Wells Pump 2 | 98 | | | | | | | |
| 380-170506-4 | TB: Ka'amilo Wells Pump 2 | 100 | | | | | | | |

**Surrogate Legend**

BFB = 4-Bromofluorobenzene (Surr)

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

**Matrix: Water** **Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | OTCSN1 | | | | | | | |
| Lab Sample ID | Client Sample ID | (60-130) | | | | | | | |
| 380-170493-C-1-A MS | Matrix Spike | 105 | | | | | | | |
| 380-170493-C-1-B MSD | Matrix Spike Duplicate | 108 | | | | | | | |
| 380-170506-1 | Ka'amilo Wells Pump 1 | 103 | | | | | | | |
| 380-170506-3 | Ka'amilo Wells Pump 2 | 95 | | | | | | | |
| LCS 570-625548/2-A | Lab Control Sample | 104 | | | | | | | |
| LCSD 570-625548/3-A | Lab Control Sample Dup | 97 | | | | | | | |
| MB 570-625548/1-A | Method Blank | 96 | | | | | | | |
| MRL 570-625548/4-A | Lab Control Sample | 93 | | | | | | | |

**Surrogate Legend**

OTCSN = n-Octacosane (Surr)

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

**Lab Sample ID: MB 380-173515/20-A**
**Matrix: Water**
**Analysis Batch: 173627**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 173515**

| Analyte | MB Result | MB Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1-Methylnaphthalene | <0.098 | | 0.098 | | ug/L | | 09/11/25 09:20 | 09/12/25 10:44 | 1 |
| 2,4'-DDD | <0.098 | | 0.098 | | ug/L | | 09/11/25 09:20 | 09/12/25 10:44 | 1 |
| 2,4'-DDE | <0.098 | | 0.098 | | ug/L | | 09/11/25 09:20 | 09/12/25 10:44 | 1 |
| 2,4'-DDT | <0.098 | | 0.098 | | ug/L | | 09/11/25 09:20 | 09/12/25 10:44 | 1 |
| 2,4-Dinitrotoluene | <0.098 | | 0.098 | | ug/L | | 09/11/25 09:20 | 09/12/25 10:44 | 1 |
| 2,6-Dinitrotoluene | <0.098 | | 0.098 | | ug/L | | 09/11/25 09:20 | 09/12/25 10:44 | 1 |
| 2-Methylnaphthalene | <0.098 | | 0.098 | | ug/L | | 09/11/25 09:20 | 09/12/25 10:44 | 1 |
| 4,4'-DDD | <0.098 | | 0.098 | | ug/L | | 09/11/25 09:20 | 09/12/25 10:44 | 1 |
| 4,4'-DDE | <0.098 | | 0.098 | | ug/L | | 09/11/25 09:20 | 09/12/25 10:44 | 1 |
| 4,4'-DDT | <0.098 | | 0.098 | | ug/L | | 09/11/25 09:20 | 09/12/25 10:44 | 1 |
| Acenaphthene | <0.098 | | 0.098 | | ug/L | | 09/11/25 09:20 | 09/12/25 10:44 | 1 |
| Acenaphthylene | <0.098 | | 0.098 | | ug/L | | 09/11/25 09:20 | 09/12/25 10:44 | 1 |
| Acetochlor | <0.098 | | 0.098 | | ug/L | | 09/11/25 09:20 | 09/12/25 10:44 | 1 |
| Alachlor | <0.049 | | 0.049 | | ug/L | | 09/11/25 09:20 | 09/12/25 10:44 | 1 |
| alpha-BHC | <0.098 | | 0.098 | | ug/L | | 09/11/25 09:20 | 09/12/25 10:44 | 1 |
| alpha-Chlordane | <0.049 | | 0.049 | | ug/L | | 09/11/25 09:20 | 09/12/25 10:44 | 1 |
| Anthracene | <0.020 | | 0.020 | | ug/L | | 09/11/25 09:20 | 09/12/25 10:44 | 1 |
| Atrazine | <0.049 | | 0.049 | | ug/L | | 09/11/25 09:20 | 09/12/25 10:44 | 1 |
| Benz(a)anthracene | <0.049 | | 0.049 | | ug/L | | 09/11/25 09:20 | 09/12/25 10:44 | 1 |
| Benzo[a]pyrene | <0.020 | | 0.020 | | ug/L | | 09/11/25 09:20 | 09/12/25 10:44 | 1 |
| Benzo[b]fluoranthene | <0.020 | | 0.020 | | ug/L | | 09/11/25 09:20 | 09/12/25 10:44 | 1 |
| Benzo[g,h,i]perylene | <0.049 | | 0.049 | | ug/L | | 09/11/25 09:20 | 09/12/25 10:44 | 1 |
| Benzo[k]fluoranthene | <0.020 | | 0.020 | | ug/L | | 09/11/25 09:20 | 09/12/25 10:44 | 1 |
| beta-BHC | <0.098 | | 0.098 | | ug/L | | 09/11/25 09:20 | 09/12/25 10:44 | 1 |
| Bis(2-ethylhexyl) phthalate | <0.59 | | 0.59 | | ug/L | | 09/11/25 09:20 | 09/12/25 10:44 | 1 |
| Bromacil | <0.098 | | 0.098 | | ug/L | | 09/11/25 09:20 | 09/12/25 10:44 | 1 |
| Butachlor | <0.049 | | 0.049 | | ug/L | | 09/11/25 09:20 | 09/12/25 10:44 | 1 |
| Butylbenzylphthalate | <0.49 | | 0.49 | | ug/L | | 09/11/25 09:20 | 09/12/25 10:44 | 1 |
| Chlorobenzilate | <0.098 | | 0.098 | | ug/L | | 09/11/25 09:20 | 09/12/25 10:44 | 1 |
| Chloroneb | <0.098 | | 0.098 | | ug/L | | 09/11/25 09:20 | 09/12/25 10:44 | 1 |
| Chlorothalonil (Draconil, Bravo) | <0.098 | | 0.098 | | ug/L | | 09/11/25 09:20 | 09/12/25 10:44 | 1 |
| Chlorpyrifos | <0.049 | | 0.049 | | ug/L | | 09/11/25 09:20 | 09/12/25 10:44 | 1 |
| Chrysene | <0.020 | | 0.020 | | ug/L | | 09/11/25 09:20 | 09/12/25 10:44 | 1 |
| delta-BHC | <0.098 | | 0.098 | | ug/L | | 09/11/25 09:20 | 09/12/25 10:44 | 1 |
| Di(2-ethylhexyl)adipate | <0.59 | | 0.59 | | ug/L | | 09/11/25 09:20 | 09/12/25 10:44 | 1 |
| Dibenz(a,h)anthracene | <0.049 | | 0.049 | | ug/L | | 09/11/25 09:20 | 09/12/25 10:44 | 1 |
| Diclorvos (DDVP) | <0.049 | | 0.049 | | ug/L | | 09/11/25 09:20 | 09/12/25 10:44 | 1 |
| Dieldrin | <0.0098 | | 0.0098 | | ug/L | | 09/11/25 09:20 | 09/12/25 10:44 | 1 |
| Diethylphthalate | <0.49 | | 0.49 | | ug/L | | 09/11/25 09:20 | 09/12/25 10:44 | 1 |
| Dimethylphthalate | <0.49 | | 0.49 | | ug/L | | 09/11/25 09:20 | 09/12/25 10:44 | 1 |
| Di-n-butyl phthalate | <0.98 | | 0.98 | | ug/L | | 09/11/25 09:20 | 09/12/25 10:44 | 1 |
| Di-n-octyl phthalate | <0.098 | | 0.098 | | ug/L | | 09/11/25 09:20 | 09/12/25 10:44 | 1 |
| Endosulfan I (Alpha) | <0.098 | | 0.098 | | ug/L | | 09/11/25 09:20 | 09/12/25 10:44 | 1 |
| Endosulfan II (Beta) | <0.098 | | 0.098 | | ug/L | | 09/11/25 09:20 | 09/12/25 10:44 | 1 |
| Endosulfan sulfate | <0.098 | | 0.098 | | ug/L | | 09/11/25 09:20 | 09/12/25 10:44 | 1 |
| Endrin | <0.0098 | | 0.0098 | | ug/L | | 09/11/25 09:20 | 09/12/25 10:44 | 1 |
| Endrin aldehyde | <0.098 | | 0.098 | | ug/L | | 09/11/25 09:20 | 09/12/25 10:44 | 1 |
| EPTC | <0.098 | | 0.098 | | ug/L | | 09/11/25 09:20 | 09/12/25 10:44 | 1 |

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

**Lab Sample ID: MB 380-173515/20-A**
**Matrix: Water**
**Analysis Batch: 173627**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 173515**

| Analyte | MB Result | MB Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Fluoranthene | <0.098 | | 0.098 | | ug/L | | 09/11/25 09:20 | 09/12/25 10:44 | 1 |
| Fluorene | <0.049 | | 0.049 | | ug/L | | 09/11/25 09:20 | 09/12/25 10:44 | 1 |
| gamma-Chlordane | <0.049 | | 0.049 | | ug/L | | 09/11/25 09:20 | 09/12/25 10:44 | 1 |
| Heptachlor | <0.0098 | | 0.0098 | | ug/L | | 09/11/25 09:20 | 09/12/25 10:44 | 1 |
| Heptachlor epoxide (isomer B) | <0.0098 | | 0.0098 | | ug/L | | 09/11/25 09:20 | 09/12/25 10:44 | 1 |
| Hexachlorobenzene | <0.049 | | 0.049 | | ug/L | | 09/11/25 09:20 | 09/12/25 10:44 | 1 |
| Hexachlorocyclopentadiene | <0.049 | | 0.049 | | ug/L | | 09/11/25 09:20 | 09/12/25 10:44 | 1 |
| Indeno[1,2,3-cd]pyrene | <0.049 | | 0.049 | | ug/L | | 09/11/25 09:20 | 09/12/25 10:44 | 1 |
| Isophorone | <0.098 | | 0.098 | | ug/L | | 09/11/25 09:20 | 09/12/25 10:44 | 1 |
| Lindane | <0.0098 | | 0.0098 | | ug/L | | 09/11/25 09:20 | 09/12/25 10:44 | 1 |
| Malathion | <0.098 | | 0.098 | | ug/L | | 09/11/25 09:20 | 09/12/25 10:44 | 1 |
| Methoxychlor | <0.049 | | 0.049 | | ug/L | | 09/11/25 09:20 | 09/12/25 10:44 | 1 |
| Metolachlor | <0.049 | | 0.049 | | ug/L | | 09/11/25 09:20 | 09/12/25 10:44 | 1 |
| Molinate | <0.098 | | 0.098 | | ug/L | | 09/11/25 09:20 | 09/12/25 10:44 | 1 |
| Naphthalene | <0.098 | | 0.098 | | ug/L | | 09/11/25 09:20 | 09/12/25 10:44 | 1 |
| Parathion | <0.098 | | 0.098 | | ug/L | | 09/11/25 09:20 | 09/12/25 10:44 | 1 |
| Pendimethalin (Penoxaline) | <0.098 | | 0.098 | | ug/L | | 09/11/25 09:20 | 09/12/25 10:44 | 1 |
| Phenanthrene | <0.039 | | 0.039 | | ug/L | | 09/11/25 09:20 | 09/12/25 10:44 | 1 |
| Propachlor | <0.049 | | 0.049 | | ug/L | | 09/11/25 09:20 | 09/12/25 10:44 | 1 |
| Pyrene | <0.049 | | 0.049 | | ug/L | | 09/11/25 09:20 | 09/12/25 10:44 | 1 |
| Simazine | <0.049 | | 0.049 | | ug/L | | 09/11/25 09:20 | 09/12/25 10:44 | 1 |
| Terbacil | <0.098 | | 0.098 | | ug/L | | 09/11/25 09:20 | 09/12/25 10:44 | 1 |
| Terbuthylazine | <0.098 | | 0.098 | | ug/L | | 09/11/25 09:20 | 09/12/25 10:44 | 1 |
| Thiobencarb | <0.098 | | 0.098 | | ug/L | | 09/11/25 09:20 | 09/12/25 10:44 | 1 |
| Total Permethrin (mixed isomers) | <0.20 | | 0.20 | | ug/L | | 09/11/25 09:20 | 09/12/25 10:44 | 1 |
| trans-Nonachlor | <0.049 | | 0.049 | | ug/L | | 09/11/25 09:20 | 09/12/25 10:44 | 1 |
| Trifluralin | <0.098 | | 0.098 | | ug/L | | 09/11/25 09:20 | 09/12/25 10:44 | 1 |

| *Tentatively Identified Compound* | *MB Est. Result* | *MB Qualifier* | *Unit* | *D* | *RT* | *CAS No.* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|---|---|---|
| *Cyclopentene, 1,2,3,4,5-pentamethyl-* | *0.920* | *T J N* | *ug/L* | | *2.52* | *1000154-28-6* | *09/11/25 09:20* | *09/12/25 10:44* | *1* |
| *Decane* | *1.96* | *T J N* | *ug/L* | | *2.78* | *124-18-5* | *09/11/25 09:20* | *09/12/25 10:44* | *1* |
| *Phenol, 4-(1,1-dimethylpropyl)-* | *0.500* | *T J N* | *ug/L* | | *4.25* | *80-46-6* | *09/11/25 09:20* | *09/12/25 10:44* | *1* |
| *9-Octadecenamide, (Z)-* | *1.81* | *T J N* | *ug/L* | | *7.90* | *301-02-0* | *09/11/25 09:20* | *09/12/25 10:44* | *1* |
| *13-Docosenamide, (Z)-* | *0.556* | *T J N* | *ug/L* | | *10.44* | *112-84-5* | *09/11/25 09:20* | *09/12/25 10:44* | *1* |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2-Nitro-m-xylene* | *98* | | *70 - 130* | *09/11/25 09:20* | *09/12/25 10:44* | *1* |
| *Perylene-d12* | *93* | | *70 - 130* | *09/11/25 09:20* | *09/12/25 10:44* | *1* |
| *Triphenylphosphate* | *106* | | *70 - 130* | *09/11/25 09:20* | *09/12/25 10:44* | *1* |

**Lab Sample ID: LCS 380-173515/22-A**
**Matrix: Water**
**Analysis Batch: 173627**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 173515**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1-Methylnaphthalene | | | 1.95 | 1.92 | | ug/L | | 98 | 70 - 130 | | |
| 2,4'-DDD | | | 1.95 | 1.99 | | ug/L | | 102 | 70 - 130 | | |

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

**Lab Sample ID: LCS 380-173515/22-A**
**Matrix: Water**
**Analysis Batch: 173627**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 173515**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| 2,4'-DDE | 1.95 | 2.16 | | ug/L | | 111 | 70 - 130 |
| 2,4'-DDT | 1.95 | 1.99 | | ug/L | | 102 | 70 - 130 |
| 2,4-Dinitrotoluene | 1.95 | 1.86 | | ug/L | | 95 | 70 - 130 |
| 2,6-Dinitrotoluene | 1.95 | 1.88 | | ug/L | | 96 | 70 - 130 |
| 2-Methylnaphthalene | 1.95 | 1.94 | | ug/L | | 100 | 70 - 130 |
| 4,4'-DDD | 1.95 | 2.06 | | ug/L | | 106 | 70 - 130 |
| 4,4'-DDE | 1.95 | 1.99 | | ug/L | | 102 | 70 - 130 |
| 4,4'-DDT | 1.95 | 2.01 | | ug/L | | 103 | 70 - 130 |
| Acenaphthene | 1.95 | 1.99 | | ug/L | | 102 | 70 - 130 |
| Acenaphthylene | 1.95 | 1.83 | | ug/L | | 94 | 70 - 130 |
| Acetochlor | 1.95 | 2.09 | | ug/L | | 107 | 70 - 130 |
| Alachlor | 1.95 | 2.25 | | ug/L | | 115 | 70 - 130 |
| alpha-BHC | 1.95 | 2.05 | | ug/L | | 105 | 70 - 130 |
| alpha-Chlordane | 1.95 | 2.07 | | ug/L | | 106 | 70 - 130 |
| Anthracene | 1.95 | 1.95 | | ug/L | | 100 | 70 - 130 |
| Atrazine | 1.95 | 2.03 | | ug/L | | 104 | 70 - 130 |
| Benz(a)anthracene | 1.95 | 2.06 | | ug/L | | 105 | 70 - 130 |
| Benzo[a]pyrene | 1.95 | 1.97 | | ug/L | | 101 | 70 - 130 |
| Benzo[b]fluoranthene | 1.95 | 1.96 | | ug/L | | 101 | 70 - 130 |
| Benzo[g,h,i]perylene | 1.95 | 1.92 | | ug/L | | 99 | 70 - 130 |
| Benzo[k]fluoranthene | 1.95 | 1.89 | | ug/L | | 97 | 70 - 130 |
| beta-BHC | 1.95 | 2.16 | | ug/L | | 111 | 70 - 130 |
| Bis(2-ethylhexyl) phthalate | 1.95 | 2.02 | | ug/L | | 104 | 70 - 130 |
| Bromacil | 1.95 | 2.02 | | ug/L | | 104 | 70 - 130 |
| Butachlor | 1.95 | 2.07 | | ug/L | | 106 | 70 - 130 |
| Butylbenzylphthalate | 1.95 | 2.30 | | ug/L | | 118 | 70 - 130 |
| Chlorobenzilate | 1.95 | 2.14 | | ug/L | | 110 | 70 - 130 |
| Chloroneb | 1.95 | 2.06 | | ug/L | | 106 | 70 - 130 |
| Chlorothalonil (Draconil, Bravo) | 1.95 | 1.86 | | ug/L | | 95 | 70 - 130 |
| Chlorpyrifos | 1.95 | 2.08 | | ug/L | | 107 | 70 - 130 |
| Chrysene | 1.95 | 1.97 | | ug/L | | 101 | 70 - 130 |
| delta-BHC | 1.95 | 2.08 | | ug/L | | 107 | 70 - 130 |
| Di(2-ethylhexyl)adipate | 1.95 | 2.12 | | ug/L | | 109 | 70 - 130 |
| Dibenz(a,h)anthracene | 1.95 | 1.88 | | ug/L | | 96 | 70 - 130 |
| Diclorvos (DDVP) | 1.95 | 2.07 | | ug/L | | 106 | 70 - 130 |
| Dieldrin | 1.95 | 2.15 | | ug/L | | 110 | 70 - 130 |
| Diethylphthalate | 1.95 | 2.16 | | ug/L | | 111 | 70 - 130 |
| Dimethylphthalate | 1.95 | 2.09 | | ug/L | | 107 | 70 - 130 |
| Di-n-butyl phthalate | 3.90 | 4.49 | | ug/L | | 115 | 70 - 130 |
| Di-n-octyl phthalate | 1.95 | 1.80 | | ug/L | | 92 | 70 - 130 |
| Endosulfan I (Alpha) | 1.95 | 2.15 | | ug/L | | 110 | 70 - 130 |
| Endosulfan II (Beta) | 1.95 | 2.16 | | ug/L | | 111 | 70 - 130 |
| Endosulfan sulfate | 1.95 | 2.10 | | ug/L | | 108 | 70 - 130 |
| Endrin | 1.95 | 2.21 | | ug/L | | 113 | 70 - 130 |
| Endrin aldehyde | 1.95 | 1.95 | | ug/L | | 100 | 60 - 130 |
| EPTC | 1.95 | 2.10 | | ug/L | | 108 | 70 - 130 |
| Fluoranthene | 1.95 | 2.10 | | ug/L | | 108 | 70 - 130 |
| Fluorene | 1.95 | 2.10 | | ug/L | | 107 | 70 - 130 |
| gamma-Chlordane | 1.95 | 2.10 | | ug/L | | 108 | 70 - 130 |

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

**Lab Sample ID: LCS 380-173515/22-A**
**Matrix: Water**
**Analysis Batch: 173627**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 173515**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Heptachlor | 1.95 | 2.17 | | ug/L | | 111 | 70 - 130 |
| Heptachlor epoxide (isomer B) | 1.95 | 2.17 | | ug/L | | 111 | 70 - 130 |
| Hexachlorobenzene | 1.95 | 1.95 | | ug/L | | 100 | 70 - 130 |
| Hexachlorocyclopentadiene | 1.95 | 1.81 | | ug/L | | 93 | 70 - 130 |
| Indeno[1,2,3-cd]pyrene | 1.95 | 1.85 | | ug/L | | 95 | 70 - 130 |
| Isophorone | 1.95 | 2.02 | | ug/L | | 104 | 70 - 130 |
| Lindane | 1.95 | 2.18 | | ug/L | | 112 | 70 - 130 |
| Malathion | 1.95 | 2.03 | | ug/L | | 104 | 70 - 130 |
| Methoxychlor | 1.95 | 2.05 | | ug/L | | 105 | 70 - 130 |
| Metolachlor | 1.95 | 2.06 | | ug/L | | 106 | 70 - 130 |
| Molinate | 1.95 | 2.11 | | ug/L | | 108 | 70 - 130 |
| Naphthalene | 1.95 | 1.95 | | ug/L | | 100 | 70 - 130 |
| Parathion | 1.95 | 1.99 | | ug/L | | 102 | 70 - 130 |
| Pendimethalin (Penoxaline) | 1.95 | 1.91 | | ug/L | | 98 | 70 - 130 |
| Phenanthrene | 1.95 | 2.04 | | ug/L | | 105 | 70 - 130 |
| Propachlor | 1.95 | 2.17 | | ug/L | | 111 | 70 - 130 |
| Pyrene | 1.95 | 2.01 | | ug/L | | 103 | 70 - 130 |
| Simazine | 1.95 | 2.01 | | ug/L | | 103 | 70 - 130 |
| Terbacil | 1.95 | 2.09 | | ug/L | | 107 | 70 - 130 |
| Terbuthylazine | 1.95 | 2.01 | | ug/L | | 103 | 70 - 130 |
| Thiobencarb | 1.95 | 2.04 | | ug/L | | 104 | 70 - 130 |
| trans-Nonachlor | 1.95 | 2.07 | | ug/L | | 106 | 70 - 130 |
| Trifluralin | 1.95 | 1.86 | | ug/L | | 95 | 70 - 130 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *2-Nitro-m-xylene* | *96* | | *70 - 130* |
| *Perylene-d12* | *91* | | *70 - 130* |
| *Triphenylphosphate* | *105* | | *70 - 130* |

**Lab Sample ID: MRL 380-173515/21-A**
**Matrix: Water**
**Analysis Batch: 173627**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 173515**

| Analyte | Spike Added | MRL Result | MRL Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| 1-Methylnaphthalene | 0.0966 | 0.101 | | ug/L | | 104 | 50 - 150 |
| 2,4'-DDD | 0.0966 | 0.0960 | J | ug/L | | 99 | 50 - 150 |
| 2,4'-DDE | 0.0966 | 0.103 | | ug/L | | 107 | 50 - 150 |
| 2,4'-DDT | 0.0966 | 0.107 | | ug/L | | 110 | 50 - 150 |
| 2,4-Dinitrotoluene | 0.0966 | 0.107 | | ug/L | | 111 | 50 - 150 |
| 2,6-Dinitrotoluene | 0.0966 | 0.119 | | ug/L | | 124 | 50 - 150 |
| 2-Methylnaphthalene | 0.0966 | 0.0965 | J | ug/L | | 100 | 50 - 150 |
| 4,4'-DDD | 0.0966 | 0.112 | | ug/L | | 116 | 50 - 150 |
| 4,4'-DDE | 0.0966 | 0.101 | | ug/L | | 104 | 50 - 150 |
| 4,4'-DDT | 0.0966 | 0.111 | | ug/L | | 115 | 50 - 150 |
| Acenaphthene | 0.0966 | 0.0884 | J | ug/L | | 92 | 50 - 150 |
| Acenaphthylene | 0.0966 | 0.0972 | | ug/L | | 101 | 50 - 150 |
| Acetochlor | 0.0966 | 0.112 | | ug/L | | 116 | 50 - 150 |
| Alachlor | 0.0483 | 0.0545 | | ug/L | | 113 | 50 - 150 |

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

**Lab Sample ID: MRL 380-173515/21-A**
**Matrix: Water**
**Analysis Batch: 173627**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 173515**

| Analyte | Spike Added | MRL Result | MRL Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| alpha-BHC | 0.0966 | 0.0989 | | ug/L | | 102 | 50 - 150 |
| alpha-Chlordane | 0.0242 | 0.0330 | J | ug/L | | 137 | 50 - 150 |
| Anthracene | 0.0193 | 0.0238 | | ug/L | | 123 | 50 - 150 |
| Atrazine | 0.0483 | 0.0695 | | ug/L | | 144 | 50 - 150 |
| Benz(a)anthracene | 0.0483 | 0.0543 | | ug/L | | 112 | 50 - 150 |
| Benzo[a]pyrene | 0.0193 | 0.0188 | J | ug/L | | 97 | 50 - 150 |
| Benzo[b]fluoranthene | 0.0193 | 0.0231 | | ug/L | | 120 | 50 - 150 |
| Benzo[g,h,i]perylene | 0.0483 | 0.0500 | | ug/L | | 104 | 50 - 150 |
| Benzo[k]fluoranthene | 0.0193 | 0.0227 | | ug/L | | 117 | 50 - 150 |
| beta-BHC | 0.0966 | 0.110 | | ug/L | | 114 | 50 - 150 |
| Bis(2-ethylhexyl) phthalate | 0.580 | 0.579 | J | ug/L | | 100 | 50 - 150 |
| Bromacil | 0.0966 | 0.126 | | ug/L | | 131 | 50 - 150 |
| Butachlor | 0.0483 | 0.0668 | | ug/L | | 138 | 50 - 150 |
| Butylbenzylphthalate | 0.483 | 0.604 | | ug/L | | 125 | 50 - 150 |
| Chlorobenzilate | 0.0966 | 0.108 | | ug/L | | 112 | 50 - 150 |
| Chloroneb | 0.0966 | 0.0974 | | ug/L | | 101 | 50 - 150 |
| Chlorothalonil (Draconil, Bravo) | 0.0966 | 0.106 | | ug/L | | 109 | 50 - 150 |
| Chlorpyrifos | 0.0483 | 0.0586 | | ug/L | | 121 | 50 - 150 |
| Chrysene | 0.0193 | 0.0214 | | ug/L | | 111 | 50 - 150 |
| delta-BHC | 0.0966 | 0.0919 | J | ug/L | | 95 | 50 - 150 |
| Di(2-ethylhexyl)adipate | 0.580 | 0.640 | | ug/L | | 110 | 50 - 150 |
| Dibenz(a,h)anthracene | 0.0483 | 0.0559 | | ug/L | | 116 | 50 - 150 |
| Diclorvos (DDVP) | 0.0483 | 0.0567 | | ug/L | | 117 | 50 - 150 |
| Dieldrin | 0.00966 | 0.0140 | | ug/L | | 145 | 50 - 150 |
| Diethylphthalate | 0.483 | 0.540 | | ug/L | | 112 | 50 - 150 |
| Dimethylphthalate | 0.483 | 0.517 | | ug/L | | 107 | 50 - 150 |
| Di-n-butyl phthalate | 0.483 | 0.624 | J | ug/L | | 129 | 49 - 243 |
| Di-n-octyl phthalate | 0.0966 | 0.0980 | | ug/L | | 101 | 50 - 150 |
| Endosulfan I (Alpha) | 0.0966 | 0.0952 | J | ug/L | | 99 | 50 - 150 |
| Endosulfan II (Beta) | 0.0966 | 0.104 | | ug/L | | 108 | 50 - 150 |
| Endosulfan sulfate | 0.0966 | 0.108 | | ug/L | | 111 | 50 - 150 |
| Endrin | 0.00966 | 0.0103 | | ug/L | | 107 | 50 - 150 |
| Endrin aldehyde | 0.0966 | 0.113 | | ug/L | | 117 | 50 - 150 |
| EPTC | 0.0966 | 0.0986 | | ug/L | | 102 | 50 - 150 |
| Fluoranthene | 0.0966 | 0.105 | | ug/L | | 108 | 50 - 150 |
| Fluorene | 0.0483 | 0.0520 | | ug/L | | 108 | 50 - 150 |
| gamma-Chlordane | 0.0242 | 0.0317 | J | ug/L | | 131 | 50 - 150 |
| Heptachlor | 0.00966 | 0.0128 | | ug/L | | 133 | 50 - 150 |
| Heptachlor epoxide (isomer B) | 0.00966 | 0.0112 | | ug/L | | 115 | 50 - 150 |
| Hexachlorobenzene | 0.0483 | 0.0464 | J | ug/L | | 96 | 50 - 150 |
| Hexachlorocyclopentadiene | 0.0483 | 0.0484 | | ug/L | | 100 | 50 - 150 |
| Indeno[1,2,3-cd]pyrene | 0.0483 | 0.0649 | | ug/L | | 134 | 50 - 150 |
| Isophorone | 0.0966 | 0.106 | | ug/L | | 110 | 50 - 150 |
| Lindane | 0.00966 | 0.0129 | | ug/L | | 133 | 50 - 150 |
| Malathion | 0.0966 | 0.109 | | ug/L | | 113 | 50 - 150 |
| Methoxychlor | 0.0483 | 0.0662 | | ug/L | | 137 | 50 - 150 |
| Metolachlor | 0.0483 | 0.0611 | | ug/L | | 127 | 50 - 150 |
| Molinate | 0.0966 | 0.106 | | ug/L | | 110 | 50 - 150 |
| Naphthalene | 0.0966 | 0.0988 | | ug/L | | 102 | 50 - 150 |

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

**Lab Sample ID: MRL 380-173515/21-A**
**Matrix: Water**
**Analysis Batch: 173627**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 173515**

| Analyte | | | Spike Added | MRL Result | MRL Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Parathion | | | 0.0966 | 0.0952 | J | ug/L | | 99 | 50 - 150 | | |
| Pendimethalin (Penoxaline) | | | 0.0966 | 0.0984 | | ug/L | | 102 | 50 - 150 | | |
| Phenanthrene | | | 0.0386 | 0.0426 | | ug/L | | 110 | 50 - 150 | | |
| Propachlor | | | 0.0483 | 0.0549 | | ug/L | | 114 | 50 - 150 | | |
| Pyrene | | | 0.0483 | 0.0524 | | ug/L | | 108 | 50 - 150 | | |
| Simazine | | | 0.0483 | 0.0638 | | ug/L | | 132 | 50 - 150 | | |
| Terbacil | | | 0.0966 | 0.123 | | ug/L | | 127 | 50 - 150 | | |
| Terbuthylazine | | | 0.0966 | 0.113 | | ug/L | | 117 | 50 - 150 | | |
| Thiobencarb | | | 0.0966 | 0.104 | | ug/L | | 107 | 50 - 150 | | |
| trans-Nonachlor | | | 0.0242 | 0.0338 | J | ug/L | | 140 | 50 - 150 | | |
| Trifluralin | | | 0.0966 | 0.101 | | ug/L | | 105 | 50 - 150 | | |

| *Surrogate* | *MRL %Recovery* | *MRL Qualifier* | *Limits* |
|---|---|---|---|
| *2-Nitro-m-xylene* | *98* | | *70 - 130* |
| *Perylene-d12* | *87* | | *70 - 130* |
| *Triphenylphosphate* | *103* | | *70 - 130* |

**Lab Sample ID: 380-170490-P-1-A MS**
**Matrix: Water**
**Analysis Batch: 173627**

**Client Sample ID: Matrix Spike**
**Prep Type: Total/NA**
**Prep Batch: 173515**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1-Methylnaphthalene | <0.10 | | 1.98 | 1.97 | | ug/L | | 99 | 70 - 130 | | |
| 2,4'-DDD | <0.10 | | 1.98 | 1.93 | | ug/L | | 97 | 70 - 130 | | |
| 2,4'-DDE | <0.10 | | 1.98 | 2.03 | | ug/L | | 103 | 70 - 130 | | |
| 2,4'-DDT | <0.10 | | 1.98 | 1.77 | | ug/L | | 89 | 70 - 130 | | |
| 2,4-Dinitrotoluene | <0.10 | | 1.98 | 2.08 | | ug/L | | 105 | 70 - 130 | | |
| 2,6-Dinitrotoluene | <0.10 | | 1.98 | 2.04 | | ug/L | | 103 | 70 - 130 | | |
| 2-Methylnaphthalene | <0.10 | | 1.98 | 2.00 | | ug/L | | 101 | 70 - 130 | | |
| 4,4'-DDD | <0.10 | | 1.98 | 1.97 | | ug/L | | 100 | 70 - 130 | | |
| 4,4'-DDE | <0.10 | | 1.98 | 1.77 | | ug/L | | 89 | 70 - 130 | | |
| 4,4'-DDT | <0.10 | | 1.98 | 1.70 | | ug/L | | 86 | 70 - 130 | | |
| Acenaphthene | <0.10 | | 1.98 | 2.00 | | ug/L | | 101 | 70 - 130 | | |
| Acenaphthylene | <0.10 | | 1.98 | 1.94 | | ug/L | | 98 | 70 - 130 | | |
| Acetochlor | <0.10 | | 1.98 | 2.14 | | ug/L | | 108 | 70 - 130 | | |
| Alachlor | <0.050 | | 1.98 | 2.20 | | ug/L | | 111 | 70 - 130 | | |
| alpha-BHC | <0.10 | | 1.98 | 2.19 | | ug/L | | 111 | 70 - 130 | | |
| alpha-Chlordane | <0.050 | | 1.98 | 2.00 | | ug/L | | 101 | 70 - 130 | | |
| Anthracene | <0.020 | F1 | 1.98 | 1.04 | F1 | ug/L | | 53 | 70 - 130 | | |
| Atrazine | <0.050 | | 1.98 | 2.08 | | ug/L | | 105 | 70 - 130 | | |
| Benz(a)anthracene | <0.050 | | 1.98 | 1.68 | | ug/L | | 85 | 70 - 130 | | |
| Benzo[a]pyrene | <0.020 | | 1.98 | 1.64 | | ug/L | | 83 | 70 - 130 | | |
| Benzo[b]fluoranthene | <0.020 | | 1.98 | 2.03 | | ug/L | | 103 | 70 - 130 | | |
| Benzo[g,h,i]perylene | <0.050 | | 1.98 | 1.91 | | ug/L | | 97 | 70 - 130 | | |
| Benzo[k]fluoranthene | <0.020 | | 1.98 | 1.96 | | ug/L | | 99 | 70 - 130 | | |
| beta-BHC | <0.10 | | 1.98 | 2.15 | | ug/L | | 108 | 70 - 130 | | |
| Bis(2-ethylhexyl) phthalate | <0.60 | | 1.98 | 1.81 | | ug/L | | 91 | 70 - 130 | | |
| Bromacil | <0.10 | | 1.98 | 2.01 | | ug/L | | 102 | 70 - 130 | | |

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

**Lab Sample ID: 380-170490-P-1-A MS**
**Matrix: Water**
**Analysis Batch: 173627**

**Client Sample ID: Matrix Spike**
**Prep Type: Total/NA**
**Prep Batch: 173515**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Butachlor | <0.050 | | 1.98 | 2.08 | | ug/L | | 105 | 70 - 130 |
| Butylbenzylphthalate | <0.50 | | 1.98 | 2.31 | | ug/L | | 117 | 70 - 130 |
| Chlorobenzilate | <0.10 | | 1.98 | 2.24 | | ug/L | | 113 | 70 - 130 |
| Chloroneb | <0.10 | | 1.98 | 2.13 | | ug/L | | 107 | 70 - 130 |
| Chlorothalonil (Draconil, Bravo) | <0.10 | | 1.98 | 2.01 | | ug/L | | 102 | 70 - 130 |
| Chlorpyrifos | <0.050 | | 1.98 | 1.96 | | ug/L | | 99 | 70 - 130 |
| Chrysene | <0.020 | | 1.98 | 1.99 | | ug/L | | 101 | 70 - 130 |
| delta-BHC | <0.10 | | 1.98 | 2.06 | | ug/L | | 104 | 70 - 130 |
| Di(2-ethylhexyl)adipate | <0.60 | | 1.98 | 1.77 | | ug/L | | 89 | 70 - 130 |
| Dibenz(a,h)anthracene | <0.050 | | 1.98 | 1.93 | | ug/L | | 98 | 70 - 130 |
| Diclorvos (DDVP) | <0.050 | | 1.98 | 2.23 | | ug/L | | 113 | 70 - 130 |
| Dieldrin | <0.010 | | 1.98 | 2.13 | | ug/L | | 108 | 70 - 130 |
| Diethylphthalate | <0.50 | | 1.98 | 2.20 | | ug/L | | 111 | 70 - 130 |
| Dimethylphthalate | <0.50 | | 1.98 | 2.17 | | ug/L | | 110 | 70 - 130 |
| Di-n-butyl phthalate | <1.0 | | 3.96 | 4.61 | | ug/L | | 117 | 70 - 130 |
| Di-n-octyl phthalate | <0.10 | | 1.98 | 1.65 | | ug/L | | 83 | 70 - 130 |
| Endosulfan I (Alpha) | <0.10 | | 1.98 | 2.07 | | ug/L | | 105 | 70 - 130 |
| Endosulfan II (Beta) | <0.10 | | 1.98 | 2.17 | | ug/L | | 109 | 70 - 130 |
| Endosulfan sulfate | <0.10 | | 1.98 | 1.97 | | ug/L | | 100 | 70 - 130 |
| Endrin | <0.010 | | 1.98 | 2.22 | | ug/L | | 112 | 70 - 130 |
| Endrin aldehyde | <0.10 | | 1.98 | 1.63 | | ug/L | | 82 | 60 - 130 |
| EPTC | <0.10 | | 1.98 | 2.16 | | ug/L | | 109 | 70 - 130 |
| Fluoranthene | <0.10 | | 1.98 | 2.10 | | ug/L | | 106 | 70 - 130 |
| Fluorene | <0.050 | | 1.98 | 2.17 | | ug/L | | 110 | 70 - 130 |
| gamma-Chlordane | <0.050 | | 1.98 | 1.99 | | ug/L | | 101 | 70 - 130 |
| Heptachlor | <0.010 | | 1.98 | 2.14 | | ug/L | | 108 | 70 - 130 |
| Heptachlor epoxide (isomer B) | <0.010 | | 1.98 | 2.16 | | ug/L | | 109 | 70 - 130 |
| Hexachlorobenzene | <0.050 | | 1.98 | 1.84 | | ug/L | | 93 | 70 - 130 |
| Hexachlorocyclopentadiene | <0.050 | | 1.98 | 2.07 | | ug/L | | 105 | 70 - 130 |
| Indeno[1,2,3-cd]pyrene | <0.050 | | 1.98 | 1.85 | | ug/L | | 93 | 70 - 130 |
| Isophorone | <0.10 | | 1.98 | 2.10 | | ug/L | | 106 | 70 - 130 |
| Lindane | <0.010 | | 1.98 | 2.22 | | ug/L | | 112 | 70 - 130 |
| Malathion | <0.10 | | 1.98 | 2.05 | | ug/L | | 103 | 70 - 130 |
| Methoxychlor | <0.050 | | 1.98 | 2.21 | | ug/L | | 112 | 70 - 130 |
| Metolachlor | <0.050 | | 1.98 | 2.11 | | ug/L | | 107 | 70 - 130 |
| Molinate | <0.10 | | 1.98 | 2.18 | | ug/L | | 110 | 70 - 130 |
| Naphthalene | <0.10 | | 1.98 | 2.00 | | ug/L | | 101 | 70 - 130 |
| Parathion | <0.10 | | 1.98 | 2.14 | | ug/L | | 108 | 70 - 130 |
| Pendimethalin (Penoxaline) | <0.10 | | 1.98 | 1.98 | | ug/L | | 100 | 70 - 130 |
| Phenanthrene | <0.040 | | 1.98 | 2.04 | | ug/L | | 103 | 70 - 130 |
| Propachlor | <0.050 | | 1.98 | 2.30 | | ug/L | | 116 | 70 - 130 |
| Pyrene | <0.050 | | 1.98 | 1.98 | | ug/L | | 100 | 70 - 130 |
| Simazine | <0.050 | | 1.98 | 2.12 | | ug/L | | 107 | 70 - 130 |
| Terbacil | <0.10 | | 1.98 | 2.18 | | ug/L | | 110 | 70 - 130 |
| Terbuthylazine | <0.10 | | 1.98 | 2.13 | | ug/L | | 107 | 70 - 130 |
| Thiobencarb | <0.10 | | 1.98 | 2.04 | | ug/L | | 103 | 70 - 130 |
| trans-Nonachlor | <0.050 | | 1.98 | 1.91 | | ug/L | | 97 | 70 - 130 |
| Trifluralin | <0.10 | | 1.98 | 1.95 | | ug/L | | 98 | 70 - 130 |

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

**Lab Sample ID: 380-170490-P-1-A MS**
**Matrix: Water**
**Analysis Batch: 173627**

**Client Sample ID: Matrix Spike**
**Prep Type: Total/NA**
**Prep Batch: 173515**

| Surrogate | MS %Recovery | MS Qualifier | Limits |
|---|---|---|---|
| *2-Nitro-m-xylene* | *103* | | *70 - 130* |
| *Perylene-d12* | *95* | | *70 - 130* |
| *Triphenylphosphate* | *89* | | *70 - 130* |

**Lab Sample ID: 380-170493-I-1-A DU**
**Matrix: Water**
**Analysis Batch: 173627**

**Client Sample ID: Duplicate**
**Prep Type: Total/NA**
**Prep Batch: 173515**

| Analyte | Sample Result | Sample Qualifier | | DU Result | DU Qualifier | Unit | D | | | RPD | 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 | 0.030 | | | 0.0321 | | ug/L | | | | 7 | 20 |
| Diethylphthalate | <0.49 | | | <0.49 | | ug/L | | | | NC | 20 |

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

**Lab Sample ID: 380-170493-I-1-A DU**
**Matrix: Water**
**Analysis Batch: 173627**

**Client Sample ID: Duplicate**
**Prep Type: Total/NA**
**Prep Batch: 173515**

| Analyte | Sample Result | Sample Qualifier | | DU Result | DU Qualifier | Unit | D | | | RPD | 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 | | | 0.0125 | | ug/L | | | | 3 | 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 |
| Terbuthylazine | <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* | *100* | | *70 - 130* |
| *Perylene-d12* | *90* | | *70 - 130* |
| *Triphenylphosphate* | *103* | | *70 - 130* |

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

**Lab Sample ID: MB 570-625449/1-A**
**Matrix: Water**
**Analysis Batch: 628768**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 625449**

| Tentatively Identified Compound | MB Est. Result | MB Qualifier | Unit | D | RT | CAS No. | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Tentatively Identified Compound | None | | ug/L | | | N/A | 09/15/25 04:33 | 09/22/25 08:34 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| 2,4,6-Tribromophenol (Surr) | 68 | | 33 - 139 | 09/15/25 04:33 | 09/22/25 08:34 | 1 |
| 2-Fluorobiphenyl (Surr) | 67 | | 33 - 126 | 09/15/25 04:33 | 09/22/25 08:34 | 1 |
| 2-Fluorophenol (Surr) | 49 | | 12 - 120 | 09/15/25 04:33 | 09/22/25 08:34 | 1 |
| Nitrobenzene-d5 (Surr) | 70 | | 36 - 120 | 09/15/25 04:33 | 09/22/25 08:34 | 1 |
| Phenol-d6 (Surr) | 28 | | 10 - 120 | 09/15/25 04:33 | 09/22/25 08:34 | 1 |
| p-Terphenyl-d14 (Surr) | 73 | | 47 - 131 | 09/15/25 04:33 | 09/22/25 08:34 | 1 |

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

**Lab Sample ID: MB 570-625449/1-A**
**Matrix: Water**
**Analysis Batch: 626828**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 625449**

| Analyte | MB Result | MB Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1-Methylnaphthalene | <0.20 | | 0.20 | | ug/L | | 09/15/25 04:33 | 09/17/25 17:41 | 1 |
| 2-Methylnaphthalene | <0.20 | | 0.20 | | ug/L | | 09/15/25 04:33 | 09/17/25 17:41 | 1 |
| Acenaphthene | <0.20 | | 0.20 | | ug/L | | 09/15/25 04:33 | 09/17/25 17:41 | 1 |
| Acenaphthylene | <0.20 | | 0.20 | | ug/L | | 09/15/25 04:33 | 09/17/25 17:41 | 1 |
| Anthracene | <0.20 | | 0.20 | | ug/L | | 09/15/25 04:33 | 09/17/25 17:41 | 1 |
| Benzo[a]anthracene | <0.20 | | 0.20 | | ug/L | | 09/15/25 04:33 | 09/17/25 17:41 | 1 |
| Benzo[a]pyrene | <0.20 | | 0.20 | | ug/L | | 09/15/25 04:33 | 09/17/25 17:41 | 1 |
| Benzo[b]fluoranthene | <0.20 | | 0.20 | | ug/L | | 09/15/25 04:33 | 09/17/25 17:41 | 1 |
| Benzo[g,h,i]perylene | <0.20 | | 0.20 | | ug/L | | 09/15/25 04:33 | 09/17/25 17:41 | 1 |
| Benzo[k]fluoranthene | <0.20 | | 0.20 | | ug/L | | 09/15/25 04:33 | 09/17/25 17:41 | 1 |
| Chrysene | <0.20 | | 0.20 | | ug/L | | 09/15/25 04:33 | 09/17/25 17:41 | 1 |
| Dibenz(a,h)anthracene | <0.20 | | 0.20 | | ug/L | | 09/15/25 04:33 | 09/17/25 17:41 | 1 |
| Fluoranthene | <0.20 | | 0.20 | | ug/L | | 09/15/25 04:33 | 09/17/25 17:41 | 1 |
| Fluorene | <0.20 | | 0.20 | | ug/L | | 09/15/25 04:33 | 09/17/25 17:41 | 1 |
| Indeno[1,2,3-cd]pyrene | <0.20 | | 0.20 | | ug/L | | 09/15/25 04:33 | 09/17/25 17:41 | 1 |
| Naphthalene | <0.20 | | 0.20 | | ug/L | | 09/15/25 04:33 | 09/17/25 17:41 | 1 |
| Phenanthrene | <0.20 | | 0.20 | | ug/L | | 09/15/25 04:33 | 09/17/25 17:41 | 1 |
| Pyrene | <0.20 | | 0.20 | | ug/L | | 09/15/25 04:33 | 09/17/25 17:41 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| 2,4,6-Tribromophenol (Surr) | 75 | | 28 - 127 | 09/15/25 04:33 | 09/17/25 17:41 | 1 |
| 2-Fluorobiphenyl (Surr) | 69 | | 31 - 120 | 09/15/25 04:33 | 09/17/25 17:41 | 1 |
| 2-Fluorophenol (Surr) | 47 | | 17 - 120 | 09/15/25 04:33 | 09/17/25 17:41 | 1 |
| Nitrobenzene-d5 (Surr) | 67 | | 27 - 120 | 09/15/25 04:33 | 09/17/25 17:41 | 1 |
| Phenol-d6 (Surr) | 29 | | 10 - 120 | 09/15/25 04:33 | 09/17/25 17:41 | 1 |
| p-Terphenyl-d14 (Surr) | 73 | | 45 - 120 | 09/15/25 04:33 | 09/17/25 17:41 | 1 |

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

**Lab Sample ID: LCS 570-625449/2-A**
**Matrix: Water**
**Analysis Batch: 626828**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 625449**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1-Methylnaphthalene | | | 20.0 | 12.0 | | ug/L | | 60 | 47 - 120 | | |
| 2-Methylnaphthalene | | | 20.0 | 12.0 | | ug/L | | 60 | 43 - 120 | | |
| Acenaphthene | | | 20.0 | 13.7 | | ug/L | | 69 | 60 - 132 | | |
| Acenaphthylene | | | 20.0 | 14.0 | | ug/L | | 70 | 54 - 126 | | |
| Anthracene | | | 20.0 | 14.2 | | ug/L | | 71 | 43 - 120 | | |
| Benzo[a]anthracene | | | 20.0 | 14.0 | | ug/L | | 70 | 42 - 133 | | |
| Benzo[a]pyrene | | | 20.0 | 14.7 | | ug/L | | 74 | 32 - 148 | | |
| Benzo[b]fluoranthene | | | 20.0 | 13.9 | | ug/L | | 70 | 42 - 140 | | |
| Benzo[g,h,i]perylene | | | 20.0 | 14.7 | | ug/L | | 73 | 1 - 195 | | |
| Benzo[k]fluoranthene | | | 20.0 | 15.4 | | ug/L | | 77 | 25 - 146 | | |
| Chrysene | | | 20.0 | 14.2 | | ug/L | | 71 | 44 - 140 | | |
| Dibenz(a,h)anthracene | | | 20.0 | 14.5 | | ug/L | | 73 | 1 - 200 | | |
| Fluoranthene | | | 20.0 | 14.1 | | ug/L | | 70 | 43 - 121 | | |
| Fluorene | | | 20.0 | 14.2 | | ug/L | | 71 | 70 - 120 | | |
| Indeno[1,2,3-cd]pyrene | | | 20.0 | 13.5 | | ug/L | | 67 | 1 - 151 | | |
| Naphthalene | | | 20.0 | 11.7 | | ug/L | | 59 | 36 - 120 | | |
| Phenanthrene | | | 20.0 | 13.5 | | ug/L | | 68 | 65 - 120 | | |
| Pyrene | | | 20.0 | 14.0 | | ug/L | | 70 | 70 - 120 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *2,4,6-Tribromophenol (Surr)* | *66* | | *28 - 127* |
| *2-Fluorobiphenyl (Surr)* | *66* | | *31 - 120* |
| *2-Fluorophenol (Surr)* | *48* | | *17 - 120* |
| *Nitrobenzene-d5 (Surr)* | *56* | | *27 - 120* |
| *Phenol-d6 (Surr)* | *31* | | *10 - 120* |
| *p-Terphenyl-d14 (Surr)* | *68* | | *45 - 120* |

**Lab Sample ID: LCSD 570-625449/3-A**
**Matrix: Water**
**Analysis Batch: 626828**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 625449**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1-Methylnaphthalene | | | 20.0 | 14.3 | | ug/L | | 72 | 47 - 120 | 17 | 20 |
| 2-Methylnaphthalene | | | 20.0 | 14.1 | | ug/L | | 71 | 43 - 120 | 17 | 20 |
| Acenaphthene | | | 20.0 | 16.8 | | ug/L | | 84 | 60 - 132 | 20 | 29 |
| Acenaphthylene | | | 20.0 | 17.1 | | ug/L | | 85 | 54 - 126 | 20 | 45 |
| Anthracene | | | 20.0 | 17.1 | | ug/L | | 85 | 43 - 120 | 19 | 40 |
| Benzo[a]anthracene | | | 20.0 | 16.8 | | ug/L | | 84 | 42 - 133 | 18 | 32 |
| Benzo[a]pyrene | | | 20.0 | 17.5 | | ug/L | | 87 | 32 - 148 | 17 | 43 |
| Benzo[b]fluoranthene | | | 20.0 | 16.9 | | ug/L | | 85 | 42 - 140 | 20 | 43 |
| Benzo[g,h,i]perylene | | | 20.0 | 17.6 | | ug/L | | 88 | 1 - 195 | 18 | 61 |
| Benzo[k]fluoranthene | | | 20.0 | 17.6 | | ug/L | | 88 | 25 - 146 | 13 | 38 |
| Chrysene | | | 20.0 | 17.2 | | ug/L | | 86 | 44 - 140 | 19 | 53 |
| Dibenz(a,h)anthracene | | | 20.0 | 17.0 | | ug/L | | 85 | 1 - 200 | 16 | 75 |
| Fluoranthene | | | 20.0 | 17.1 | | ug/L | | 86 | 43 - 121 | 20 | 40 |
| Fluorene | | | 20.0 | 17.1 | | ug/L | | 86 | 70 - 120 | 19 | 23 |
| Indeno[1,2,3-cd]pyrene | | | 20.0 | 16.0 | | ug/L | | 80 | 1 - 151 | 17 | 60 |
| Naphthalene | | | 20.0 | 13.9 | | ug/L | | 69 | 36 - 120 | 16 | 39 |

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

**Lab Sample ID: LCSD 570-625449/3-A**
**Matrix: Water**
**Analysis Batch: 626828**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 625449**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Phenanthrene | | | 20.0 | 16.4 | | ug/L | | 82 | 65 - 120 | 20 | 24 |
| Pyrene | | | 20.0 | 17.1 | | ug/L | | 85 | 70 - 120 | 20 | 30 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *2,4,6-Tribromophenol (Surr)* | *78* | | *28 - 127* |
| *2-Fluorobiphenyl (Surr)* | *79* | | *31 - 120* |
| *2-Fluorophenol (Surr)* | *57* | | *17 - 120* |
| *Nitrobenzene-d5 (Surr)* | *66* | | *27 - 120* |
| *Phenol-d6 (Surr)* | *37* | | *10 - 120* |
| *p-Terphenyl-d14 (Surr)* | *77* | | *45 - 120* |

**Lab Sample ID: 380-170493-A-1-A MS**
**Matrix: Water**
**Analysis Batch: 626828**

**Client Sample ID: Matrix Spike**
**Prep Type: Total/NA**
**Prep Batch: 625449**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| 1-Methylnaphthalene | <0.19 | | 19.3 | 13.7 | | ug/L | | 71 | 36 - 120 |
| 2-Methylnaphthalene | <0.19 | | 19.3 | 13.5 | | ug/L | | 70 | 32 - 124 |
| Acenaphthene | <0.19 | | 19.3 | 16.1 | | ug/L | | 83 | 47 - 145 |
| Acenaphthylene | <0.19 | | 19.3 | 16.3 | | ug/L | | 85 | 33 - 145 |
| Anthracene | <0.19 | | 19.3 | 16.8 | | ug/L | | 87 | 27 - 133 |
| Benzo[a]anthracene | <0.19 | | 19.3 | 16.5 | | ug/L | | 86 | 33 - 143 |
| Benzo[a]pyrene | <0.19 | | 19.3 | 17.2 | | ug/L | | 89 | 17 - 163 |
| Benzo[b]fluoranthene | <0.19 | | 19.3 | 16.7 | | ug/L | | 86 | 24 - 159 |
| Benzo[g,h,i]perylene | <0.19 | | 19.3 | 17.0 | | ug/L | | 88 | 1 - 219 |
| Benzo[k]fluoranthene | <0.19 | | 19.3 | 17.3 | | ug/L | | 89 | 11 - 162 |
| Chrysene | <0.19 | | 19.3 | 16.8 | | ug/L | | 87 | 17 - 168 |
| Dibenz(a,h)anthracene | <0.19 | | 19.3 | 16.9 | | ug/L | | 87 | 1 - 227 |
| Fluoranthene | <0.19 | | 19.3 | 17.0 | | ug/L | | 88 | 26 - 137 |
| Fluorene | <0.19 | | 19.3 | 16.6 | | ug/L | | 86 | 59 - 121 |
| Indeno[1,2,3-cd]pyrene | <0.19 | | 19.3 | 15.4 | | ug/L | | 80 | 1 - 171 |
| Naphthalene | <0.19 | | 19.3 | 12.9 | | ug/L | | 67 | 21 - 133 |
| Phenanthrene | <0.19 | | 19.3 | 16.2 | | ug/L | | 84 | 54 - 120 |
| Pyrene | <0.19 | | 19.3 | 16.6 | | ug/L | | 86 | 52 - 120 |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *2,4,6-Tribromophenol (Surr)* | *80* | | *28 - 127* |
| *2-Fluorobiphenyl (Surr)* | *78* | | *31 - 120* |
| *2-Fluorophenol (Surr)* | *55* | | *17 - 120* |
| *Nitrobenzene-d5 (Surr)* | *64* | | *27 - 120* |
| *Phenol-d6 (Surr)* | *35* | | *10 - 120* |
| *p-Terphenyl-d14 (Surr)* | *78* | | *45 - 120* |

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

**Lab Sample ID: 380-170493-A-1-B MSD**
**Matrix: Water**
**Analysis Batch: 626828**

**Client Sample ID: Matrix Spike Duplicate**
**Prep Type: Total/NA**
**Prep Batch: 625449**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1-Methylnaphthalene | <0.19 | | 19.4 | 12.9 | | ug/L | | 67 | 36 - 120 | 6 | 30 |
| 2-Methylnaphthalene | <0.19 | | 19.4 | 12.8 | | ug/L | | 66 | 32 - 124 | 5 | 30 |
| Acenaphthene | <0.19 | | 19.4 | 14.9 | | ug/L | | 77 | 47 - 145 | 8 | 48 |
| Acenaphthylene | <0.19 | | 19.4 | 15.1 | | ug/L | | 78 | 33 - 145 | 8 | 74 |
| Anthracene | <0.19 | | 19.4 | 14.9 | | ug/L | | 77 | 27 - 133 | 12 | 66 |
| Benzo[a]anthracene | <0.19 | | 19.4 | 14.6 | | ug/L | | 76 | 33 - 143 | 12 | 53 |
| Benzo[a]pyrene | <0.19 | | 19.4 | 15.1 | | ug/L | | 78 | 17 - 163 | 13 | 72 |
| Benzo[b]fluoranthene | <0.19 | | 19.4 | 14.5 | | ug/L | | 75 | 24 - 159 | 14 | 71 |
| Benzo[g,h,i]perylene | <0.19 | | 19.4 | 15.1 | | ug/L | | 78 | 1 - 219 | 12 | 97 |
| Benzo[k]fluoranthene | <0.19 | | 19.4 | 15.4 | | ug/L | | 79 | 11 - 162 | 12 | 63 |
| Chrysene | <0.19 | | 19.4 | 14.7 | | ug/L | | 76 | 17 - 168 | 13 | 87 |
| Dibenz(a,h)anthracene | <0.19 | | 19.4 | 15.1 | | ug/L | | 78 | 1 - 227 | 11 | 126 |
| Fluoranthene | <0.19 | | 19.4 | 14.8 | | ug/L | | 77 | 26 - 137 | 14 | 66 |
| Fluorene | <0.19 | | 19.4 | 15.0 | | ug/L | | 78 | 59 - 121 | 10 | 38 |
| Indeno[1,2,3-cd]pyrene | <0.19 | | 19.4 | 13.7 | | ug/L | | 71 | 1 - 171 | 12 | 99 |
| Naphthalene | <0.19 | | 19.4 | 12.5 | | ug/L | | 65 | 21 - 133 | 3 | 65 |
| Phenanthrene | <0.19 | | 19.4 | 14.4 | | ug/L | | 74 | 54 - 120 | 12 | 39 |
| Pyrene | <0.19 | | 19.4 | 14.8 | | ug/L | | 76 | 52 - 120 | 12 | 49 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *2,4,6-Tribromophenol (Surr)* | *71* | | *28 - 127* |
| *2-Fluorobiphenyl (Surr)* | *73* | | *31 - 120* |
| *2-Fluorophenol (Surr)* | *52* | | *17 - 120* |
| *Nitrobenzene-d5 (Surr)* | *61* | | *27 - 120* |
| *Phenol-d6 (Surr)* | *33* | | *10 - 120* |
| *p-Terphenyl-d14 (Surr)* | *71* | | *45 - 120* |

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

**Lab Sample ID: 380-170493-B-1 MS**
**Matrix: Water**
**Analysis Batch: 625194**

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

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (C4-C13) | <10 | | 400 | 390 | | ug/L | | 97 | 68 - 122 | | |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *102* | | *38 - 134* |

**Lab Sample ID: 380-170493-B-1 MSD**
**Matrix: Water**
**Analysis Batch: 625194**

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

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (C4-C13) | <10 | | 400 | 383 | | ug/L | | 96 | 68 - 122 | 2 | 18 |

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

**Lab Sample ID: 380-170493-B-1 MSD**
**Matrix: Water**
**Analysis Batch: 625194**

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

| Surrogate | MSD %Recovery | MSD Qualifier | Limits |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *98* | | *38 - 134* |

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

**Lab Sample ID: MB 570-625548/1-A**
**Matrix: Water**
**Analysis Batch: 626815**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 625548**

| Analyte | MB Result | MB Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (C10-C24) | <25 | | 25 | | ug/L | | 09/15/25 09:14 | 09/17/25 12:37 | 1 |
| Motor Oil Range Organics [C24-C36] | <25 | | 25 | | ug/L | | 09/15/25 09:14 | 09/17/25 12:37 | 1 |
| C8-C18 | <25 | | 25 | | ug/L | | 09/15/25 09:14 | 09/17/25 12:37 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *n-Octacosane (Surr)* | *96* | | *60 - 130* | *09/15/25 09:14* | *09/17/25 12:37* | *1* |

**Lab Sample ID: LCS 570-625548/2-A**
**Matrix: Water**
**Analysis Batch: 626815**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 625548**

| 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)* | *104* | | *60 - 130* |

**Lab Sample ID: LCSD 570-625548/3-A**
**Matrix: Water**
**Analysis Batch: 626815**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 625548**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C10-C28 | | | 1600 | 1540 | | ug/L | | 96 | 56 - 127 | 2 | 23 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits |
|---|---|---|---|
| *n-Octacosane (Surr)* | *97* | | *60 - 130* |

**Lab Sample ID: MRL 570-625548/4-A**
**Matrix: Water**
**Analysis Batch: 626815**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 625548**

| Analyte | | | Spike Added | MRL Result | MRL Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C10-C28 | | | 0.0200 | 0.0351 | ^3+ | mg/L | | 175 | 50 - 150 | | |

| Surrogate | MRL %Recovery | MRL Qualifier | Limits |
|---|---|---|---|
| *n-Octacosane (Surr)* | *93* | | *60 - 130* |

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

**Lab Sample ID: 380-170493-C-1-A MS**
**Matrix: Water**
**Analysis Batch: 626815**

**Client Sample ID: Matrix Spike**
**Prep Type: Total/NA**
**Prep Batch: 625548**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C10-C28 | <26 | ^3+ | 1620 | 1620 | | ug/L | | 100 | 70 - 130 | | |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *n-Octacosane (Surr)* | *105* | | *60 - 130* |

**Lab Sample ID: 380-170493-C-1-B MSD**
**Matrix: Water**
**Analysis Batch: 626815**

**Client Sample ID: Matrix Spike Duplicate**
**Prep Type: Total/NA**
**Prep Batch: 625548**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C10-C28 | <26 | ^3+ | 1630 | 1800 | | ug/L | | 111 | 70 - 130 | 10 | 20 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *n-Octacosane (Surr)* | *108* | | *60 - 130* |

# QC Association Summary

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

Job ID: 380-170506-1
SDG: Weekly: Ka'amilo Wells Pump 1/Pump2

## GC/MS Semi VOA

### Prep Batch: 173515

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 380-170506-1 | Ka'amilo Wells Pump 1 | Total/NA | Water | 525.2 | |
| 380-170506-3 | Ka'amilo Wells Pump 2 | Total/NA | Water | 525.2 | |
| MB 380-173515/20-A | Method Blank | Total/NA | Water | 525.2 | |
| LCS 380-173515/22-A | Lab Control Sample | Total/NA | Water | 525.2 | |
| MRL 380-173515/21-A | Lab Control Sample | Total/NA | Water | 525.2 | |
| 380-170490-P-1-A MS | Matrix Spike | Total/NA | Water | 525.2 | |
| 380-170493-I-1-A DU | Duplicate | Total/NA | Water | 525.2 | |

### Analysis Batch: 173627

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 380-170506-1 | Ka'amilo Wells Pump 1 | Total/NA | Water | 525.2 | 173515 |
| 380-170506-3 | Ka'amilo Wells Pump 2 | Total/NA | Water | 525.2 | 173515 |
| MB 380-173515/20-A | Method Blank | Total/NA | Water | 525.2 | 173515 |
| LCS 380-173515/22-A | Lab Control Sample | Total/NA | Water | 525.2 | 173515 |
| MRL 380-173515/21-A | Lab Control Sample | Total/NA | Water | 525.2 | 173515 |
| 380-170490-P-1-A MS | Matrix Spike | Total/NA | Water | 525.2 | 173515 |
| 380-170493-I-1-A DU | Duplicate | Total/NA | Water | 525.2 | 173515 |

### Prep Batch: 625449

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 380-170506-1 | Ka'amilo Wells Pump 1 | Total/NA | Water | 625.1 | |
| 380-170506-3 | Ka'amilo Wells Pump 2 | Total/NA | Water | 625.1 | |
| MB 570-625449/1-A | Method Blank | Total/NA | Water | 625.1 | |
| LCS 570-625449/2-A | Lab Control Sample | Total/NA | Water | 625.1 | |
| LCSD 570-625449/3-A | Lab Control Sample Dup | Total/NA | Water | 625.1 | |
| 380-170493-A-1-A MS | Matrix Spike | Total/NA | Water | 625.1 | |
| 380-170493-A-1-B MSD | Matrix Spike Duplicate | Total/NA | Water | 625.1 | |

### Analysis Batch: 626828

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 380-170506-1 | Ka'amilo Wells Pump 1 | Total/NA | Water | 625.1 SIM | 625449 |
| 380-170506-3 | Ka'amilo Wells Pump 2 | Total/NA | Water | 625.1 SIM | 625449 |
| MB 570-625449/1-A | Method Blank | Total/NA | Water | 625.1 SIM | 625449 |
| LCS 570-625449/2-A | Lab Control Sample | Total/NA | Water | 625.1 SIM | 625449 |
| LCSD 570-625449/3-A | Lab Control Sample Dup | Total/NA | Water | 625.1 SIM | 625449 |
| 380-170493-A-1-A MS | Matrix Spike | Total/NA | Water | 625.1 SIM | 625449 |
| 380-170493-A-1-B MSD | Matrix Spike Duplicate | Total/NA | Water | 625.1 SIM | 625449 |

### Analysis Batch: 628768

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 380-170506-1 | Ka'amilo Wells Pump 1 | Total/NA | Water | 625.1 | 625449 |
| 380-170506-3 | Ka'amilo Wells Pump 2 | Total/NA | Water | 625.1 | 625449 |
| MB 570-625449/1-A | Method Blank | Total/NA | Water | 625.1 | 625449 |

## GC VOA

### Analysis Batch: 625194

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 380-170506-1 | Ka'amilo Wells Pump 1 | Total/NA | Water | 8015B GRO LL | |
| 380-170506-2 | TB: Ka'amilo Wells Pump 1 | Total/NA | Water | 8015B GRO LL | |
| 380-170506-3 | Ka'amilo Wells Pump 2 | Total/NA | Water | 8015B GRO LL | |

## GC VOA (Continued)

### Analysis Batch: 625194 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 380-170506-4 | TB: Ka'amilo Wells Pump 2 | Total/NA | Water | 8015B GRO LL | |
| 380-170493-B-1 MS | Matrix Spike | Total/NA | Water | 8015B GRO LL | |
| 380-170493-B-1 MSD | Matrix Spike Duplicate | Total/NA | Water | 8015B GRO LL | |

## GC Semi VOA

### Prep Batch: 625548

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 380-170506-1 | Ka'amilo Wells Pump 1 | Total/NA | Water | 3510C | |
| 380-170506-3 | Ka'amilo Wells Pump 2 | Total/NA | Water | 3510C | |
| MB 570-625548/1-A | Method Blank | Total/NA | Water | 3510C | |
| LCS 570-625548/2-A | Lab Control Sample | Total/NA | Water | 3510C | |
| LCSD 570-625548/3-A | Lab Control Sample Dup | Total/NA | Water | 3510C | |
| MRL 570-625548/4-A | Lab Control Sample | Total/NA | Water | 3510C | |
| 380-170493-C-1-A MS | Matrix Spike | Total/NA | Water | 3510C | |
| 380-170493-C-1-B MSD | Matrix Spike Duplicate | Total/NA | Water | 3510C | |

### Analysis Batch: 626815

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 380-170506-1 | Ka'amilo Wells Pump 1 | Total/NA | Water | 8015B | 625548 |
| 380-170506-3 | Ka'amilo Wells Pump 2 | Total/NA | Water | 8015B | 625548 |
| MB 570-625548/1-A | Method Blank | Total/NA | Water | 8015B | 625548 |
| LCS 570-625548/2-A | Lab Control Sample | Total/NA | Water | 8015B | 625548 |
| LCSD 570-625548/3-A | Lab Control Sample Dup | Total/NA | Water | 8015B | 625548 |
| MRL 570-625548/4-A | Lab Control Sample | Total/NA | Water | 8015B | 625548 |
| 380-170493-C-1-A MS | Matrix Spike | Total/NA | Water | 8015B | 625548 |
| 380-170493-C-1-B MSD | Matrix Spike Duplicate | Total/NA | Water | 8015B | 625548 |

# Lab Chronicle

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

Job ID: 380-170506-1
SDG: Weekly: Ka'amilo Wells Pump 1/Pump2

## Client Sample ID: Ka'amilo Wells Pump 1

**Lab Sample ID: 380-170506-1**

**Date Collected: 09/08/25 11:53**
**Matrix: Water**
**Date Received: 09/10/25 09:35**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 525.2 | | | 173515 | KRD3 | EA POM | 09/11/25 09:20 |
| Total/NA | Analysis | 525.2 | | 1 | 173627 | Q8LA | EA POM | 09/12/25 13:05 |
| Total/NA | Prep | 625.1 | | | 625449 | H1SH | EET CAL 4 | 09/15/25 04:33 |
| Total/NA | Analysis | 625.1 | | 1 | 628768 | PQS1 | EET CAL 4 | 09/22/25 11:26 |
| Total/NA | Prep | 625.1 | | | 625449 | H1SH | EET CAL 4 | 09/15/25 04:33 |
| Total/NA | Analysis | 625.1 SIM | | 1 | 626828 | PQS1 | EET CAL 4 | 09/17/25 20:14 |
| Total/NA | Analysis | 8015B GRO LL | | 1 | 625194 | W4LC | EET CAL 4 | 09/13/25 19:42 |
| Total/NA | Prep | 3510C | | | 625548 | TVD6 | EET CAL 4 | 09/15/25 09:17 |
| Total/NA | Analysis | 8015B | | 1 | 626815 | NR | EET CAL 4 | 09/17/25 15:08 |

## Client Sample ID: TB: Ka'amilo Wells Pump 1

**Lab Sample ID: 380-170506-2**

**Date Collected: 09/08/25 11:53**
**Matrix: Water**
**Date Received: 09/10/25 09:35**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8015B GRO LL | | 1 | 625194 | W4LC | EET CAL 4 | 09/13/25 23:22 |

## Client Sample ID: Ka'amilo Wells Pump 2

**Lab Sample ID: 380-170506-3**

**Date Collected: 09/08/25 12:38**
**Matrix: Water**
**Date Received: 09/10/25 09:35**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 525.2 | | | 173515 | KRD3 | EA POM | 09/11/25 09:20 |
| Total/NA | Analysis | 525.2 | | 1 | 173627 | Q8LA | EA POM | 09/12/25 13:25 |
| Total/NA | Prep | 625.1 | | | 625449 | H1SH | EET CAL 4 | 09/15/25 04:33 |
| Total/NA | Analysis | 625.1 | | 1 | 628768 | PQS1 | EET CAL 4 | 09/22/25 11:50 |
| Total/NA | Prep | 625.1 | | | 625449 | H1SH | EET CAL 4 | 09/15/25 04:33 |
| Total/NA | Analysis | 625.1 SIM | | 1 | 626828 | PQS1 | EET CAL 4 | 09/17/25 20:36 |
| Total/NA | Analysis | 8015B GRO LL | | 1 | 625194 | W4LC | EET CAL 4 | 09/13/25 20:02 |
| Total/NA | Prep | 3510C | | | 625548 | TVD6 | EET CAL 4 | 09/15/25 09:17 |
| Total/NA | Analysis | 8015B | | 1 | 626815 | NR | EET CAL 4 | 09/17/25 15:30 |

## Client Sample ID: TB: Ka'amilo Wells Pump 2

**Lab Sample ID: 380-170506-4**

**Date Collected: 09/08/25 12:38**
**Matrix: Water**
**Date Received: 09/10/25 09:35**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8015B GRO LL | | 1 | 625194 | W4LC | EET CAL 4 | 09/13/25 23:42 |

**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: 380-170506-1
SDG: Weekly: Ka'amilo Wells Pump 1/Pump2

## Laboratory: Eurofins Eaton Analytical Pomona

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

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

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

| Analysis Method | Prep Method | Matrix | Analyte |
|---|---|---|---|
| 525.2 | 525.2 | Water | 1-Methylnaphthalene |
| 525.2 | 525.2 | Water | 2,4'-DDD |
| 525.2 | 525.2 | Water | 2,4'-DDE |
| 525.2 | 525.2 | Water | 2,4'-DDT |
| 525.2 | 525.2 | Water | 2,4-Dinitrotoluene |
| 525.2 | 525.2 | Water | 2,6-Dinitrotoluene |
| 525.2 | 525.2 | Water | 2-Methylnaphthalene |
| 525.2 | 525.2 | Water | 4,4'-DDD |
| 525.2 | 525.2 | Water | 4,4'-DDE |
| 525 2 | 525 2 | Water | 4,4' DDT |
| 525.2 | 525.2 | Water | Acetochlor |
| 525.2 | 525.2 | Water | alpha-BHC |
| 525.2 | 525.2 | Water | alpha-Chlordane |
| 525.2 | 525.2 | Water | beta-BHC |
| 525.2 | 525.2 | Water | Chlorobenzilate |
| 525.2 | 525.2 | Water | Chloroneb |
| 525.2 | 525.2 | Water | Chlorothalonil (Draconil, Bravo) |
| 525.2 | 525.2 | Water | Chlorpyrifos |
| 525.2 | 525.2 | Water | delta-BHC |
| 525.2 | 525.2 | Water | Diclorvos (DDVP) |
| 525.2 | 525.2 | Water | Endosulfan I (Alpha) |
| 525.2 | 525.2 | Water | Endosulfan II (Beta) |
| 525.2 | 525.2 | Water | Endosulfan sulfate |
| 525.2 | 525.2 | Water | Endrin aldehyde |
| 525.2 | 525.2 | Water | EPTC |
| 525.2 | 525.2 | Water | gamma-Chlordane |
| 525.2 | 525.2 | Water | Isophorone |
| 525.2 | 525.2 | Water | Malathion |
| 525.2 | 525.2 | Water | Parathion |
| 525.2 | 525.2 | Water | Pendimethalin (Penoxaline) |
| 525.2 | 525.2 | Water | Terbacil |
| 525.2 | 525.2 | Water | Terbuthylazine |
| 525.2 | 525.2 | Water | Total Permethrin (mixed isomers) |
| 525.2 | 525.2 | Water | trans-Nonachlor |

## Laboratory: Eurofins Calscience

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

| Authority | Program | Identification Number | Expiration Date |
|---|---|---|---|
| A2LA | Dept. of Defense ELAP | 7296.01 | 11-30-26 |
| A2LA | ISO/IEC 17025 | 7296.01 | 11-30-26 |
| Alaska (UST) | State | 25-005 | 03-02-26 |
| Arizona | State | AZ0830 | 11-16-25 |
| California | Los Angeles County Sanitation Districts | 9257304 | 07-31-26 |
| California | SCAQMD LAP | 17LA0919 | 11-30-25 |

# Accreditation/Certification Summary

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

Job ID: 380-170506-1
SDG: Weekly: Ka'amilo Wells Pump 1/Pump2

## 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: 380-170506-1
SDG: Weekly: Ka'amilo Wells Pump 1/Pump2

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

**Protocol References:**

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater ", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.
EPA = US Environmental Protection Agency
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

EA POM = Eurofins Eaton Analytical Pomona, 941 Corporate Center Drive, Pomona, CA 91768-2642, TEL (626)386-1100
EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

# Sample Summary

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

Job ID: 380-170506-1
SDG: Weekly: Ka'amilo Wells Pump 1/Pump2

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Sample Origin |
|---|---|---|---|---|---|
| 380-170506-1 | Ka'amilo Wells Pump 1 | Water | 09/08/25 11:53 | 09/10/25 09:35 | Hawaii |
| 380-170506-2 | TB: Ka'amilo Wells Pump 1 | Water | 09/08/25 11:53 | 09/10/25 09:35 | Hawaii |
| 380-170506-3 | Ka'amilo Wells Pump 2 | Water | 09/08/25 12:38 | 09/10/25 09:35 | Hawaii |
| 380-170506-4 | TB: Ka'amilo Wells Pump 2 | Water | 09/08/25 12:38 | 09/10/25 09:35 | Hawaii |

**Eurofins Eaton Analytical Pomona**
941 Corporate Center Drive
Pomona, CA 91768-2642
Phone (626) 386-1100

# Chain of Custody Record

eurofins | Environment Testing

| Client Information | Sampler: bailey | Lab PM: Arada, Rachelle | Carrier Tracking No(s): | COC No: 380-28005-2757 1 |
|---|---|---|---|---|
| Client Contact: Mr Kirk Iwamoto | Phone: +1 808 748 5840 | E-Mail: Rachelle.Arada@et.eurofinsus.com | State of Origin: | Page: Page 1 of 1 |
| Company: City & County of Honolulu | PWSID: | | | Job #: |
| Address: 630 South Beretania Street Chemistry Lab | Due Date Requested: | | | |
| City: Honolulu | TAT Requested (days): | | | |
| State, Zip: HI, 96843 | Compliance Project: Δ Yes Δ No | | | |
| Phone: 808-748-5840 (Tel) | PO #: C20525101 exp 05312023 | | | |
| Email: kiwamoto@hbws.org | WO #: | | | |
| Project Name: RED-HILL/HBWS Sites Event Desc: RUSH Weekly Red Hill | Project #: 38001111 | | | |
| Site: Hawaii | SSOW#: | | | |

**Analysis Requested**

**Preservation Codes:**
R - NaThioSO4
RA - NaThio/HCl
Q - Na2SO3
QA - Na2SO3/HCl
Y - Trizma
I - NH4 Acetate
Other:

| Sample Identification | Sample Date | Sample Time | Sample Type (C=comp, G=grab) | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 625.1, 625.1_SIM | 8015B_GRO_LL - (MOD) GRO | 8015B_DRO_LL_CS - HNL Range: C10-C24/C24-C36/C8-C18 | 625.2_PREC - (MOD) 625plus Plus TICs | 537.1_DW_PREC - 537.1 Full List | 533 - All Analytes | Total Number of containers | Special Instructions/Note: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Preservation Code: | | | | R | RA | Q | QA | Y | I | | |
| Ka'amilo Wells Pump 1 | 8-Sep-2025 | 1153 | G | Water | | | 2 | 3 | 2 | 2 | | | | |
| Ka'amilo Wells Pump 1 (Matrix Spike) | | | | Water | | | | | | | | | | |
| Ka'amilo Wells Pump 1 (Matrix Spike Duplicate) | | | | Water | | | | | | | | | | |
| TB: Ka'amilo Wells Pump 1 | 8-Sep-2025 | 1153 | | Water | | | | 2 | | | | | | |
| Ka'amilo Wells Pump 2 | 8-Sep-2025 | 1238 | G | Water | | | 2 | 3 | 2 | 2 | | | | |
| Ka'amilo Wells Pump 2 (Matrix Spike) | | | | Water | | | | | | | | | | |
| Ka'amilo Wells Pump 2 (Matrix Spike Duplicate) | | | | Water | | | | | | | | | | |
| TB: Ka'amilo Wells Pump 2 | 8-Sep-2025 | 1238 | | Water | | | | 2 | | | | | | |

380-170506 COC

**Possible Hazard Identification**
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

**Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)**
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

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

Special Instructions/QC Requirements: FEDEX (1) 884240786557

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment: (2) 884240786568

| Relinquished by | Date/Time | Company | Received by | Date/Time | Company |
|---|---|---|---|---|---|
| [redacted] | 09/08/2025 1400 | HBWS | | 09/10/25 09:35 | EEAP |
| | Date/Time: | Company | Received by | Date/Time: | Company |
| Relinquished by | Date/Time: | Company | Received by | Date/Time: | Company |

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 9SIR (1) 2.7 - 0.0 = 2.7 (2) 3.2 - 0.0 = 3.2 GUC Frozen

Ver: 04/02/2024

**Eurofins Eaton Analytical Pomona**
941 Corporate Center Drive
Pomona, CA 91768-2642
Phone: 626-386-1100

# Chain of Custody Record

eurofins | E

Loc: 380
170506

| Client Information (Sub Contract Lab) | Sampler: N/A | Lab PM: Lopez, Maria | Carrier Tracking No(s): N/A | COC No: 380-250758.1 |
|---|---|---|---|---|
| Client Contact: Shipping/Receiving | Phone: N/A | E-Mail: Maria.Lopez@et.eurofinsus.com | State of Origin: Hawaii | Page: Page 1 of 1 |
| Company: Eurofins Environment Testing Southwest, | | Accreditations Required (See note): State - Hawaii | | Job #: 380-170506-1 |
| Address: 2841 Dow Avenue, Suite 100, , | Due Date Requested: 9/23/2025 | Analysis Requested | | Preservation Codes: - |
| City: Tustin | TAT Requested (days): N/A | | | |
| State, Zip: CA, 92780 | | | | |
| Phone: 714-895-5494(Tel) | PO #: N/A | | | |
| Email: N/A | WO #: N/A | | | |
| Project Name: RED-HILL | Project #: 38001111 | | | |
| Site: Honolulu BWS Sites | SSOW#: N/A | | | Other: N/A |

| Sample Identification - Client ID (Lab ID) | Sample Date | Sample Time | Sample Type (C=comp, G=grab) | Matrix (W=water, S=solid, O=wastoil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 8015B_DRO_LL_C8/3510C_LL/HNL Ranges: C10-C24/C24-C36/C8-C18 | 8015B_GRO_LL/5030C(MOD) GRO | 625.1_SIM/625_Prep(MOD) Extended PAH List | Total Number of containers | Special Instructions/Note: |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Preservation Code: | | | | | | | | |
| Ka'amilo Wells Pump 1 (380-170506-1) | 9/8/25 | 11:53 Hawaiian | G | Water | | | X | X | X | 7 | MRLs are needed. Confirm any hits >RL. |
| TB: Ka'amilo Wells Pump 1 (380-170506-2) | 9/8/25 | 11:53 Hawaiian | G | Water | | | | X | | 2 | MRLs are needed. |
| Ka'amilo Wells Pump 2 (380-170506-3) | 9/8/25 | 12:38 Hawaiian | G | Water | | | X | X | X | 7 | MRLs are needed. Confirm any hits >RL. |
| TB: Ka'amilo Wells Pump 2 (380-170506-4) | 9/8/25 | 12:38 Hawaiian | G | Water | | | | X | | 2 | MRLs are needed. |

380-170506 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/tests/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 | Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month) |
|---|---|
| Unconfirmed | ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months |
| Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2 | Special Instructions/QC Requirements: |

| Empty Kit Relinquished by: | Date: | Time: | Method of Shipment: |
|---|---|---|---|

| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |
|---|---|---|---|---|---|
| Marcott MadeUrcutia | 9/10/25 1600 | EEAP | | 9-16-25 1616 | WP |
| | 9/10/25 1740 | WP | | 9/10/25 1740 | EC |
| | | | | | |

| Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 1.9/1.4 IR92 |
|---|---|---|

# Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-170506-1

SDG Number: Weekly: Ka'amilo Wells Pump 1/Pump2

**Login Number: 170506**

**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 | |
| ClO4 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: 380-170506-1
SDG Number: Weekly: Ka'amilo Wells Pump 1/Pump2

**Login Number: 170506**
**List Number: 2**
**Creator: Khana, Piyush**

**List Source: Eurofins Calscience**
**List Creation: 09/11/25 11:34 AM**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | N/A | |
| The cooler's custody seal, if present, is intact. | N/A | |
| Sample custody seals, if present, are intact. | N/A | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | 1.4 |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | N/A | Received project as a subcontract. |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |