

# ANALYTICAL REPORT

## PREPARED FOR

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## JOB DESCRIPTION

INTERA - Red-Hill-Incident  
Site H1 625.1, 8015B\_DRO/\_GRO, 8260B

## JOB NUMBER

380-222411-1

# Eurofins 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 Drinking Water and Wastewater West, 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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## Definitions/Glossary

Client: City & County of Honolulu  
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-222411-1  
SDG: Site H1 625.1, 8015B\_DRO/\_GRO, 8260B

### Qualifiers

#### GC/MS Semi VOA

| Qualifier | Qualifier Description                                  |
|-----------|--------------------------------------------------------|
| F1        | MS and/or MSD recovery exceeds control limits.         |
| F2        | MS/MSD RPD exceeds control limits                      |
| S1-       | Surrogate recovery exceeds control limits, low biased. |

#### GC/MS Semi VOA TICs

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

### Glossary

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

# Case Narrative

Client: City & County of Honolulu  
Project: INTERA - Red-Hill-Incident

Job ID: 380-222411-1

**Job ID: 380-222411-1**

**Eurofins Pomona**

## **Job Narrative 380-222411-1**

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 7/1/2026 9:40 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.9°C.

### **GC/MS VOA**

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

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

Method 625.1 SIM: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 570-764228 and analytical batch 570-765058.

Method 625.1 SIM: The matrix spike / matrix spike duplicate / sample duplicate (MS/MSD/DUP) precision for preparation batch 570-764228 and analytical batch 570-765058 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

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

### **Gasoline Range Organics**

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: The following sample was re-prepared outside of preparation holding time due to hit in the initial prep/analysis and to confirm results per method comment: BWS2253-H1-AQ (380-222411-1). The confirmation values did not align with the initial values in the sample thus the data for 8015B\_DRO was excluded for BWS2253-H1-AQ (380-222411-1) sampled on 06/30/26. The sample is collected routinely and a follow up sample was collected on 07/15/26 under job # 380-225332. Analysis by 8015B\_DRO is currently in progress. (XWB4)

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

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## Detection Summary

Client: City & County of Honolulu  
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-222411-1  
SDG: Site H1 625.1, 8015B\_DRO/\_GRO, 8260B

**Client Sample ID: BWS2253-H1-AQ**

**Lab Sample ID: 380-222411-1**

☐ No Detections.

**Client Sample ID: BWS2253-H1-TB**

**Lab Sample ID: 380-222411-2**

☐ No Detections.

This Detection Summary does not include radiochemical test results.

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# Client Sample Results

Client: City & County of Honolulu  
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-222411-1  
SDG: Site H1 625.1, 8015B\_DRO/\_GRO, 8260B

Client Sample ID: BWS2253-H1-AQ

Lab Sample ID: 380-222411-1

Date Collected: 06/30/26 11:30

Matrix: Water

Date Received: 07/01/26 09:40

## Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

| Analyte                               | Result | Qualifier | RL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------------------|--------|-----------|------|------|---|----------|----------------|---------|
| 1,1,1,2-Tetrachloroethane             | <2.0   |           | 2.0  | ug/L |   |          | 07/10/26 11:46 | 1       |
| 1,1,1-Trichloroethane                 | <1.0   |           | 1.0  | ug/L |   |          | 07/10/26 11:46 | 1       |
| 1,1,2,2-Tetrachloroethane             | <1.0   |           | 1.0  | ug/L |   |          | 07/10/26 11:46 | 1       |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | <10    |           | 10   | ug/L |   |          | 07/10/26 11:46 | 1       |
| 1,1,2-Trichloroethane                 | <1.0   |           | 1.0  | ug/L |   |          | 07/10/26 11:46 | 1       |
| 1,1-Dichloroethane                    | <1.0   |           | 1.0  | ug/L |   |          | 07/10/26 11:46 | 1       |
| 1,1-Dichloroethene                    | <1.0   |           | 1.0  | ug/L |   |          | 07/10/26 11:46 | 1       |
| 1,1-Dichloropropene                   | <1.0   |           | 1.0  | ug/L |   |          | 07/10/26 11:46 | 1       |
| 1,2,3-Trichlorobenzene                | <1.0   |           | 1.0  | ug/L |   |          | 07/10/26 11:46 | 1       |
| 1,2,3-Trichloropropane                | <5.0   |           | 5.0  | ug/L |   |          | 07/10/26 11:46 | 1       |
| 1,2,4-Trichlorobenzene                | <1.0   |           | 1.0  | ug/L |   |          | 07/10/26 11:46 | 1       |
| 1,2,4-Trimethylbenzene                | <1.0   |           | 1.0  | ug/L |   |          | 07/10/26 11:46 | 1       |
| 1,2-Dibromo-3-Chloropropane           | <10    |           | 10   | ug/L |   |          | 07/10/26 11:46 | 1       |
| 1,2-Dichlorobenzene                   | <1.0   |           | 1.0  | ug/L |   |          | 07/10/26 11:46 | 1       |
| 1,2-Dichloroethane                    | <0.50  |           | 0.50 | ug/L |   |          | 07/10/26 11:46 | 1       |
| 1,2-Dichloropropane                   | <1.0   |           | 1.0  | ug/L |   |          | 07/10/26 11:46 | 1       |
| 1,3,5-Trimethylbenzene                | <1.0   |           | 1.0  | ug/L |   |          | 07/10/26 11:46 | 1       |
| 1,3-Dichlorobenzene                   | <1.0   |           | 1.0  | ug/L |   |          | 07/10/26 11:46 | 1       |
| 1,3-Dichloropropane                   | <1.0   |           | 1.0  | ug/L |   |          | 07/10/26 11:46 | 1       |
| 1,4-Dichlorobenzene                   | <1.0   |           | 1.0  | ug/L |   |          | 07/10/26 11:46 | 1       |
| 2,2-Dichloropropane                   | <1.0   |           | 1.0  | ug/L |   |          | 07/10/26 11:46 | 1       |
| 2-Butanone                            | <10    |           | 10   | ug/L |   |          | 07/10/26 11:46 | 1       |
| 2-Chlorotoluene                       | <1.0   |           | 1.0  | ug/L |   |          | 07/10/26 11:46 | 1       |
| 2-Hexanone                            | <10    |           | 10   | ug/L |   |          | 07/10/26 11:46 | 1       |
| 4-Chlorotoluene                       | <1.0   |           | 1.0  | ug/L |   |          | 07/10/26 11:46 | 1       |
| Acetone                               | <10    |           | 10   | ug/L |   |          | 07/10/26 11:46 | 1       |
| Benzene                               | <0.50  |           | 0.50 | ug/L |   |          | 07/10/26 11:46 | 1       |
| Bromobenzene                          | <1.0   |           | 1.0  | ug/L |   |          | 07/10/26 11:46 | 1       |
| Bromochloromethane                    | <2.0   |           | 2.0  | ug/L |   |          | 07/10/26 11:46 | 1       |
| Bromodichloromethane                  | <1.0   |           | 1.0  | ug/L |   |          | 07/10/26 11:46 | 1       |
| Bromoform                             | <5.0   |           | 5.0  | ug/L |   |          | 07/10/26 11:46 | 1       |
| Bromomethane                          | <10    |           | 10   | ug/L |   |          | 07/10/26 11:46 | 1       |
| Carbon disulfide                      | <10    |           | 10   | ug/L |   |          | 07/10/26 11:46 | 1       |
| Carbon tetrachloride                  | <0.50  |           | 0.50 | ug/L |   |          | 07/10/26 11:46 | 1       |
| Chlorobenzene                         | <1.0   |           | 1.0  | ug/L |   |          | 07/10/26 11:46 | 1       |
| Chloroethane                          | <5.0   |           | 5.0  | ug/L |   |          | 07/10/26 11:46 | 1       |
| Chloroform                            | <1.0   |           | 1.0  | ug/L |   |          | 07/10/26 11:46 | 1       |
| Chloromethane                         | <10    |           | 10   | ug/L |   |          | 07/10/26 11:46 | 1       |
| cis-1,2-Dichloroethene                | <1.0   |           | 1.0  | ug/L |   |          | 07/10/26 11:46 | 1       |
| cis-1,3-Dichloropropene               | <0.50  |           | 0.50 | ug/L |   |          | 07/10/26 11:46 | 1       |
| Dibromochloromethane                  | <2.0   |           | 2.0  | ug/L |   |          | 07/10/26 11:46 | 1       |
| Dibromomethane                        | <1.0   |           | 1.0  | ug/L |   |          | 07/10/26 11:46 | 1       |
| Dichlorodifluoromethane               | <5.0   |           | 5.0  | ug/L |   |          | 07/10/26 11:46 | 1       |
| Diethyl ether                         | <10    |           | 10   | ug/L |   |          | 07/10/26 11:46 | 1       |
| Di-isopropyl ether (DIPE)             | <2.0   |           | 2.0  | ug/L |   |          | 07/10/26 11:46 | 1       |
| Ethanol                               | <100   |           | 100  | ug/L |   |          | 07/10/26 11:46 | 1       |
| Ethylbenzene                          | <1.0   |           | 1.0  | ug/L |   |          | 07/10/26 11:46 | 1       |
| Ethylene Dibromide                    | <1.0   |           | 1.0  | ug/L |   |          | 07/10/26 11:46 | 1       |
| Ethyl-t-butyl ether (ETBE)            | <2.0   |           | 2.0  | ug/L |   |          | 07/10/26 11:46 | 1       |

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# Client Sample Results

Client: City & County of Honolulu  
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-222411-1  
SDG: Site H1 625.1, 8015B\_DRO/\_GRO, 8260B

Client Sample ID: BWS2253-H1-AQ

Lab Sample ID: 380-222411-1

Date Collected: 06/30/26 11:30

Matrix: Water

Date Received: 07/01/26 09:40

## Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte                       | Result | Qualifier | RL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------------------------|--------|-----------|------|------|---|----------|----------------|---------|
| Hexachloro-1,3-butadiene      | <10    |           | 10   | ug/L |   |          | 07/10/26 11:46 | 1       |
| Hexane                        | <5.0   |           | 5.0  | ug/L |   |          | 07/10/26 11:46 | 1       |
| Isobutyl alcohol              | <75    |           | 75   | ug/L |   |          | 07/10/26 11:46 | 1       |
| Isopropanol                   | <75    |           | 75   | ug/L |   |          | 07/10/26 11:46 | 1       |
| Isopropylbenzene              | <1.0   |           | 1.0  | ug/L |   |          | 07/10/26 11:46 | 1       |
| m,p-Xylene                    | <2.0   |           | 2.0  | ug/L |   |          | 07/10/26 11:46 | 1       |
| Methylene Chloride            | <10    |           | 10   | ug/L |   |          | 07/10/26 11:46 | 1       |
| Methyl-t-Butyl Ether (MTBE)   | <1.0   |           | 1.0  | ug/L |   |          | 07/10/26 11:46 | 1       |
| MIBK                          | <10    |           | 10   | ug/L |   |          | 07/10/26 11:46 | 1       |
| Naphthalene                   | <10    |           | 10   | ug/L |   |          | 07/10/26 11:46 | 1       |
| n-Butylbenzene                | <1.0   |           | 1.0  | ug/L |   |          | 07/10/26 11:46 | 1       |
| N-Propylbenzene               | <1.0   |           | 1.0  | ug/L |   |          | 07/10/26 11:46 | 1       |
| o-Xylene                      | <1.0   |           | 1.0  | ug/L |   |          | 07/10/26 11:46 | 1       |
| p-Isopropyltoluene            | <1.0   |           | 1.0  | ug/L |   |          | 07/10/26 11:46 | 1       |
| sec-Butylbenzene              | <1.0   |           | 1.0  | ug/L |   |          | 07/10/26 11:46 | 1       |
| Styrene                       | <1.0   |           | 1.0  | ug/L |   |          | 07/10/26 11:46 | 1       |
| tert-Amyl alcohol             | <50    |           | 50   | ug/L |   |          | 07/10/26 11:46 | 1       |
| Tert-amyl-methyl ether (TAME) | <2.0   |           | 2.0  | ug/L |   |          | 07/10/26 11:46 | 1       |
| tert-Butyl alcohol (TBA)      | <10    |           | 10   | ug/L |   |          | 07/10/26 11:46 | 1       |
| tert-Butylbenzene             | <1.0   |           | 1.0  | ug/L |   |          | 07/10/26 11:46 | 1       |
| Tetrachloroethene             | <1.0   |           | 1.0  | ug/L |   |          | 07/10/26 11:46 | 1       |
| Toluene                       | <1.0   |           | 1.0  | ug/L |   |          | 07/10/26 11:46 | 1       |
| trans-1,2-Dichloroethene      | <1.0   |           | 1.0  | ug/L |   |          | 07/10/26 11:46 | 1       |
| trans-1,3-Dichloropropene     | <0.50  |           | 0.50 | ug/L |   |          | 07/10/26 11:46 | 1       |
| Trichloroethene               | <1.0   |           | 1.0  | ug/L |   |          | 07/10/26 11:46 | 1       |
| Trichlorofluoromethane        | <10    |           | 10   | ug/L |   |          | 07/10/26 11:46 | 1       |
| Vinyl acetate                 | <10    |           | 10   | ug/L |   |          | 07/10/26 11:46 | 1       |
| Vinyl chloride                | <0.50  |           | 0.50 | ug/L |   |          | 07/10/26 11:46 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 100       |           | 80 - 120 |          | 07/10/26 11:46 | 1       |
| 4-Bromofluorobenzene (Surr)  | 97        |           | 80 - 120 |          | 07/10/26 11:46 | 1       |
| Dibromofluoromethane (Surr)  | 103       |           | 80 - 120 |          | 07/10/26 11:46 | 1       |
| Toluene-d8 (Surr)            | 105       |           | 80 - 120 |          | 07/10/26 11:46 | 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 |   | 07/06/26 08:08 | 07/13/26 15:05 | 1       |
| 2-Methylnaphthalene   | <0.19  |           | 0.19 | ug/L |   | 07/06/26 08:08 | 07/13/26 15:05 | 1       |
| Acenaphthene          | <0.19  |           | 0.19 | ug/L |   | 07/06/26 08:08 | 07/13/26 15:05 | 1       |
| Acenaphthylene        | <0.19  |           | 0.19 | ug/L |   | 07/06/26 08:08 | 07/13/26 15:05 | 1       |
| Anthracene            | <0.19  |           | 0.19 | ug/L |   | 07/06/26 08:08 | 07/13/26 15:05 | 1       |
| Benzo[a]anthracene    | <0.19  |           | 0.19 | ug/L |   | 07/06/26 08:08 | 07/13/26 15:05 | 1       |
| Benzo[a]pyrene        | <0.19  |           | 0.19 | ug/L |   | 07/06/26 08:08 | 07/13/26 15:05 | 1       |
| Benzo[b]fluoranthene  | <0.19  |           | 0.19 | ug/L |   | 07/06/26 08:08 | 07/13/26 15:05 | 1       |
| Benzo[g,h,i]perylene  | <0.19  |           | 0.19 | ug/L |   | 07/06/26 08:08 | 07/13/26 15:05 | 1       |
| Benzo[k]fluoranthene  | <0.19  |           | 0.19 | ug/L |   | 07/06/26 08:08 | 07/13/26 15:05 | 1       |
| Chrysene              | <0.19  |           | 0.19 | ug/L |   | 07/06/26 08:08 | 07/13/26 15:05 | 1       |
| Dibenz(a,h)anthracene | <0.19  |           | 0.19 | ug/L |   | 07/06/26 08:08 | 07/13/26 15:05 | 1       |
| Fluoranthene          | <0.19  |           | 0.19 | ug/L |   | 07/06/26 08:08 | 07/13/26 15:05 | 1       |

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# Client Sample Results

Client: City & County of Honolulu  
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-222411-1  
SDG: Site H1 625.1, 8015B\_DRO/\_GRO, 8260B

Client Sample ID: BWS2253-H1-AQ

Lab Sample ID: 380-222411-1

Date Collected: 06/30/26 11:30

Matrix: Water

Date Received: 07/01/26 09:40

## 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 |   | 07/06/26 08:08 | 07/13/26 15:05 | 1       |
| Indeno[1,2,3-cd]pyrene | <0.19  |           | 0.19 | ug/L |   | 07/06/26 08:08 | 07/13/26 15:05 | 1       |
| Naphthalene            | <0.19  |           | 0.19 | ug/L |   | 07/06/26 08:08 | 07/13/26 15:05 | 1       |
| Phenanthrene           | <0.19  |           | 0.19 | ug/L |   | 07/06/26 08:08 | 07/13/26 15:05 | 1       |
| Pyrene                 | <0.19  |           | 0.19 | ug/L |   | 07/06/26 08:08 | 07/13/26 15:05 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2,4,6-Tribromophenol (Surr) | 84        |           | 28 - 127 | 07/06/26 08:08 | 07/13/26 15:05 | 1       |
| 2-Fluorobiphenyl (Surr)     | 75        |           | 31 - 120 | 07/06/26 08:08 | 07/13/26 15:05 | 1       |
| 2-Fluorophenol (Surr)       | 50        |           | 17 - 120 | 07/06/26 08:08 | 07/13/26 15:05 | 1       |
| Nitrobenzene-d5 (Surr)      | 76        |           | 27 - 120 | 07/06/26 08:08 | 07/13/26 15:05 | 1       |
| Phenol-d6 (Surr)            | 30        |           | 10 - 120 | 07/06/26 08:08 | 07/13/26 15:05 | 1       |
| p-Terphenyl-d14 (Surr)      | 69        |           | 45 - 120 | 07/06/26 08:08 | 07/13/26 15:05 | 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 |
|---------------------------------|-------------|-----------|------|---|------|----------|----------------|----------------|---------|
| Butylated Hydroxytoluene        | 9.0         | T J N     | ug/L |   | 6.83 | 128-37-0 | 07/06/26 08:08 | 07/09/26 23:11 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2,4,6-Tribromophenol (Surr) | 64        |           | 33 - 139 | 07/06/26 08:08 | 07/09/26 23:11 | 1       |
| 2-Fluorobiphenyl (Surr)     | 92        |           | 33 - 126 | 07/06/26 08:08 | 07/09/26 23:11 | 1       |
| 2-Fluorophenol (Surr)       | 57        |           | 12 - 120 | 07/06/26 08:08 | 07/09/26 23:11 | 1       |
| Nitrobenzene-d5 (Surr)      | 71        |           | 36 - 120 | 07/06/26 08:08 | 07/09/26 23:11 | 1       |
| Phenol-d6 (Surr)            | 33        |           | 10 - 120 | 07/06/26 08:08 | 07/09/26 23:11 | 1       |
| p-Terphenyl-d14 (Surr)      | 80        |           | 47 - 131 | 07/06/26 08:08 | 07/09/26 23:11 | 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 |   |          | 07/06/26 20:26 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 100       |           | 38 - 134 |          | 07/06/26 20:26 | 1       |

Client Sample ID: BWS2253-H1-TB

Lab Sample ID: 380-222411-2

Date Collected: 06/30/26 11:30

Matrix: Water

Date Received: 07/01/26 09:40

## Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

| Analyte                               | Result | Qualifier | RL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------------------|--------|-----------|-----|------|---|----------|----------------|---------|
| 1,1,1,2-Tetrachloroethane             | <2.0   |           | 2.0 | ug/L |   |          | 07/10/26 08:48 | 1       |
| 1,1,1-Trichloroethane                 | <1.0   |           | 1.0 | ug/L |   |          | 07/10/26 08:48 | 1       |
| 1,1,2,2-Tetrachloroethane             | <1.0   |           | 1.0 | ug/L |   |          | 07/10/26 08:48 | 1       |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | <10    |           | 10  | ug/L |   |          | 07/10/26 08:48 | 1       |
| 1,1,2-Trichloroethane                 | <1.0   |           | 1.0 | ug/L |   |          | 07/10/26 08:48 | 1       |
| 1,1-Dichloroethane                    | <1.0   |           | 1.0 | ug/L |   |          | 07/10/26 08:48 | 1       |
| 1,1-Dichloroethene                    | <1.0   |           | 1.0 | ug/L |   |          | 07/10/26 08:48 | 1       |
| 1,1-Dichloropropene                   | <1.0   |           | 1.0 | ug/L |   |          | 07/10/26 08:48 | 1       |
| 1,2,3-Trichlorobenzene                | <1.0   |           | 1.0 | ug/L |   |          | 07/10/26 08:48 | 1       |
| 1,2,3-Trichloropropane                | <5.0   |           | 5.0 | ug/L |   |          | 07/10/26 08:48 | 1       |
| 1,2,4-Trichlorobenzene                | <1.0   |           | 1.0 | ug/L |   |          | 07/10/26 08:48 | 1       |
| 1,2,4-Trimethylbenzene                | <1.0   |           | 1.0 | ug/L |   |          | 07/10/26 08:48 | 1       |

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# Client Sample Results

Client: City & County of Honolulu  
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-222411-1  
SDG: Site H1 625.1, 8015B\_DRO/\_GRO, 8260B

Client Sample ID: BWS2253-H1-TB

Lab Sample ID: 380-222411-2

Date Collected: 06/30/26 11:30

Matrix: Water

Date Received: 07/01/26 09:40

## Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte                     | Result | Qualifier | RL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|------|------|---|----------|----------------|---------|
| 1,2-Dibromo-3-Chloropropane | <10    |           | 10   | ug/L |   |          | 07/10/26 08:48 | 1       |
| 1,2-Dichlorobenzene         | <1.0   |           | 1.0  | ug/L |   |          | 07/10/26 08:48 | 1       |
| 1,2-Dichloroethane          | <0.50  |           | 0.50 | ug/L |   |          | 07/10/26 08:48 | 1       |
| 1,2-Dichloropropane         | <1.0   |           | 1.0  | ug/L |   |          | 07/10/26 08:48 | 1       |
| 1,3,5-Trimethylbenzene      | <1.0   |           | 1.0  | ug/L |   |          | 07/10/26 08:48 | 1       |
| 1,3-Dichlorobenzene         | <1.0   |           | 1.0  | ug/L |   |          | 07/10/26 08:48 | 1       |
| 1,3-Dichloropropane         | <1.0   |           | 1.0  | ug/L |   |          | 07/10/26 08:48 | 1       |
| 1,4-Dichlorobenzene         | <1.0   |           | 1.0  | ug/L |   |          | 07/10/26 08:48 | 1       |
| 2,2-Dichloropropane         | <1.0   |           | 1.0  | ug/L |   |          | 07/10/26 08:48 | 1       |
| 2-Butanone                  | <10    |           | 10   | ug/L |   |          | 07/10/26 08:48 | 1       |
| 2-Chlorotoluene             | <1.0   |           | 1.0  | ug/L |   |          | 07/10/26 08:48 | 1       |
| 2-Hexanone                  | <10    |           | 10   | ug/L |   |          | 07/10/26 08:48 | 1       |
| 4-Chlorotoluene             | <1.0   |           | 1.0  | ug/L |   |          | 07/10/26 08:48 | 1       |
| Acetone                     | <10    |           | 10   | ug/L |   |          | 07/10/26 08:48 | 1       |
| Benzene                     | <0.50  |           | 0.50 | ug/L |   |          | 07/10/26 08:48 | 1       |
| Bromobenzene                | <1.0   |           | 1.0  | ug/L |   |          | 07/10/26 08:48 | 1       |
| Bromochloromethane          | <2.0   |           | 2.0  | ug/L |   |          | 07/10/26 08:48 | 1       |
| Bromodichloromethane        | <1.0   |           | 1.0  | ug/L |   |          | 07/10/26 08:48 | 1       |
| Bromoform                   | <5.0   |           | 5.0  | ug/L |   |          | 07/10/26 08:48 | 1       |
| Bromomethane                | <10    |           | 10   | ug/L |   |          | 07/10/26 08:48 | 1       |
| Carbon disulfide            | <10    |           | 10   | ug/L |   |          | 07/10/26 08:48 | 1       |
| Carbon tetrachloride        | <0.50  |           | 0.50 | ug/L |   |          | 07/10/26 08:48 | 1       |
| Chlorobenzene               | <1.0   |           | 1.0  | ug/L |   |          | 07/10/26 08:48 | 1       |
| Chloroethane                | <5.0   |           | 5.0  | ug/L |   |          | 07/10/26 08:48 | 1       |
| Chloroform                  | <1.0   |           | 1.0  | ug/L |   |          | 07/10/26 08:48 | 1       |
| Chloromethane               | <10    |           | 10   | ug/L |   |          | 07/10/26 08:48 | 1       |
| cis-1,2-Dichloroethene      | <1.0   |           | 1.0  | ug/L |   |          | 07/10/26 08:48 | 1       |
| cis-1,3-Dichloropropene     | <0.50  |           | 0.50 | ug/L |   |          | 07/10/26 08:48 | 1       |
| Dibromochloromethane        | <2.0   |           | 2.0  | ug/L |   |          | 07/10/26 08:48 | 1       |
| Dibromomethane              | <1.0   |           | 1.0  | ug/L |   |          | 07/10/26 08:48 | 1       |
| Dichlorodifluoromethane     | <5.0   |           | 5.0  | ug/L |   |          | 07/10/26 08:48 | 1       |
| Diethyl ether               | <10    |           | 10   | ug/L |   |          | 07/10/26 08:48 | 1       |
| Di-isopropyl ether (DIPE)   | <2.0   |           | 2.0  | ug/L |   |          | 07/10/26 08:48 | 1       |
| Ethanol                     | <100   |           | 100  | ug/L |   |          | 07/10/26 08:48 | 1       |
| Ethylbenzene                | <1.0   |           | 1.0  | ug/L |   |          | 07/10/26 08:48 | 1       |
| Ethylene Dibromide          | <1.0   |           | 1.0  | ug/L |   |          | 07/10/26 08:48 | 1       |
| Ethyl-t-butyl ether (ETBE)  | <2.0   |           | 2.0  | ug/L |   |          | 07/10/26 08:48 | 1       |
| Hexachloro-1,3-butadiene    | <10    |           | 10   | ug/L |   |          | 07/10/26 08:48 | 1       |
| Hexane                      | <5.0   |           | 5.0  | ug/L |   |          | 07/10/26 08:48 | 1       |
| Isobutyl alcohol            | <75    |           | 75   | ug/L |   |          | 07/10/26 08:48 | 1       |
| Isopropanol                 | <75    |           | 75   | ug/L |   |          | 07/10/26 08:48 | 1       |
| Isopropylbenzene            | <1.0   |           | 1.0  | ug/L |   |          | 07/10/26 08:48 | 1       |
| m,p-Xylene                  | <2.0   |           | 2.0  | ug/L |   |          | 07/10/26 08:48 | 1       |
| Methylene Chloride          | <10    |           | 10   | ug/L |   |          | 07/10/26 08:48 | 1       |
| Methyl-t-Butyl Ether (MTBE) | <1.0   |           | 1.0  | ug/L |   |          | 07/10/26 08:48 | 1       |
| MIBK                        | <10    |           | 10   | ug/L |   |          | 07/10/26 08:48 | 1       |
| Naphthalene                 | <10    |           | 10   | ug/L |   |          | 07/10/26 08:48 | 1       |
| n-Butylbenzene              | <1.0   |           | 1.0  | ug/L |   |          | 07/10/26 08:48 | 1       |
| N-Propylbenzene             | <1.0   |           | 1.0  | ug/L |   |          | 07/10/26 08:48 | 1       |

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# Client Sample Results

Client: City & County of Honolulu  
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-222411-1  
SDG: Site H1 625.1, 8015B\_DRO/\_GRO, 8260B

Client Sample ID: BWS2253-H1-TB

Lab Sample ID: 380-222411-2

Date Collected: 06/30/26 11:30

Matrix: Water

Date Received: 07/01/26 09:40

## Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte                       | Result | Qualifier | RL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------------------------|--------|-----------|------|------|---|----------|----------------|---------|
| o-Xylene                      | <1.0   |           | 1.0  | ug/L |   |          | 07/10/26 08:48 | 1       |
| p-Isopropyltoluene            | <1.0   |           | 1.0  | ug/L |   |          | 07/10/26 08:48 | 1       |
| sec-Butylbenzene              | <1.0   |           | 1.0  | ug/L |   |          | 07/10/26 08:48 | 1       |
| Styrene                       | <1.0   |           | 1.0  | ug/L |   |          | 07/10/26 08:48 | 1       |
| tert-Amyl alcohol             | <50    |           | 50   | ug/L |   |          | 07/10/26 08:48 | 1       |
| Tert-amyl-methyl ether (TAME) | <2.0   |           | 2.0  | ug/L |   |          | 07/10/26 08:48 | 1       |
| tert-Butyl alcohol (TBA)      | <10    |           | 10   | ug/L |   |          | 07/10/26 08:48 | 1       |
| tert-Butylbenzene             | <1.0   |           | 1.0  | ug/L |   |          | 07/10/26 08:48 | 1       |
| Tetrachloroethene             | <1.0   |           | 1.0  | ug/L |   |          | 07/10/26 08:48 | 1       |
| Toluene                       | <1.0   |           | 1.0  | ug/L |   |          | 07/10/26 08:48 | 1       |
| trans-1,2-Dichloroethene      | <1.0   |           | 1.0  | ug/L |   |          | 07/10/26 08:48 | 1       |
| trans-1,3-Dichloropropene     | <0.50  |           | 0.50 | ug/L |   |          | 07/10/26 08:48 | 1       |
| Trichloroethene               | <1.0   |           | 1.0  | ug/L |   |          | 07/10/26 08:48 | 1       |
| Trichlorofluoromethane        | <10    |           | 10   | ug/L |   |          | 07/10/26 08:48 | 1       |
| Vinyl acetate                 | <10    |           | 10   | ug/L |   |          | 07/10/26 08:48 | 1       |
| Vinyl chloride                | <0.50  |           | 0.50 | ug/L |   |          | 07/10/26 08:48 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 98        |           | 80 - 120 |          | 07/10/26 08:48 | 1       |
| 4-Bromofluorobenzene (Surr)  | 97        |           | 80 - 120 |          | 07/10/26 08:48 | 1       |
| Dibromofluoromethane (Surr)  | 101       |           | 80 - 120 |          | 07/10/26 08:48 | 1       |
| Toluene-d8 (Surr)            | 101       |           | 80 - 120 |          | 07/10/26 08:48 | 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 |   |          | 07/06/26 18:07 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 100       |           | 38 - 134 |          | 07/06/26 18:07 | 1       |

# Action Limit Summary

Client: City & County of Honolulu  
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-222411-1  
SDG: Site H1 625.1, 8015B\_DRO/\_GRO, 8260B

Client Sample ID: BWS2253-H1-AQ

Lab Sample ID: 380-222411-1

## 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<br>Limit | HI Org<br>Limit | RL   | Method    | Prep Type |
|-----------------------------|--------|-----------|------|-----------------|-----------------|------|-----------|-----------|
| 1,1,1-Trichloroethane       | <1.0   |           | ug/L | 200             | 200.0           | 1.0  | 8260B     | Total/NA  |
| 1,1,2-Trichloroethane       | <1.0   |           | ug/L | 5               | 5.000           | 1.0  | 8260B     | Total/NA  |
| 1,1-Dichloroethene          | <1.0   |           | ug/L | 7               | 7.000           | 1.0  | 8260B     | Total/NA  |
| 1,2,3-Trichloropropane      | <5.0   |           | ug/L |                 | 0.6000          | 5.0  | 8260B     | Total/NA  |
| 1,2,4-Trichlorobenzene      | <1.0   |           | ug/L | 70              | 70.00           | 1.0  | 8260B     | Total/NA  |
| 1,2-Dibromo-3-Chloropropane | <10    |           | ug/L | 0.2             |                 | 10   | 8260B     | Total/NA  |
| 1,2-Dichlorobenzene         | <1.0   |           | ug/L | 600             | 600.0           | 1.0  | 8260B     | Total/NA  |
| 1,2-Dichloroethane          | <0.50  |           | ug/L | 5               | 5.000           | 0.50 | 8260B     | Total/NA  |
| 1,2-Dichloropropane         | <1.0   |           | ug/L | 5               | 5.000           | 1.0  | 8260B     | Total/NA  |
| 1,4-Dichlorobenzene         | <1.0   |           | ug/L | 75              | 75.000          | 1.0  | 8260B     | Total/NA  |
| Benzene                     | <0.50  |           | ug/L | 5               | 5.000           | 0.50 | 8260B     | Total/NA  |
| Bromodichloromethane        | <1.0   |           | ug/L | 80              |                 | 1.0  | 8260B     | Total/NA  |
| Bromoform                   | <5.0   |           | ug/L | 80              |                 | 5.0  | 8260B     | Total/NA  |
| Carbon tetrachloride        | <0.50  |           | ug/L | 5               | 5.000           | 0.50 | 8260B     | Total/NA  |
| Chlorobenzene               | <1.0   |           | ug/L | 100             | 100.0           | 1.0  | 8260B     | Total/NA  |
| Chloroform                  | <1.0   |           | ug/L | 80              |                 | 1.0  | 8260B     | Total/NA  |
| cis-1,2-Dichloroethene      | <1.0   |           | ug/L | 70              | 70.00           | 1.0  | 8260B     | Total/NA  |
| Dibromochloromethane        | <2.0   |           | ug/L | 80              |                 | 2.0  | 8260B     | Total/NA  |
| Ethylbenzene                | <1.0   |           | ug/L | 700             | 700.0           | 1.0  | 8260B     | Total/NA  |
| Ethylene Dibromide          | <1.0   |           | ug/L | 0.05            |                 | 1.0  | 8260B     | Total/NA  |
| Methylene Chloride          | <10    |           | ug/L | 5               | 5.000           | 10   | 8260B     | Total/NA  |
| Styrene                     | <1.0   |           | ug/L | 100             | 100.0           | 1.0  | 8260B     | Total/NA  |
| Tetrachloroethene           | <1.0   |           | ug/L | 5               | 5.000           | 1.0  | 8260B     | Total/NA  |
| Toluene                     | <1.0   |           | ug/L | 1000            | 1000            | 1.0  | 8260B     | Total/NA  |
| trans-1,2-Dichloroethene    | <1.0   |           | ug/L | 100             | 100.0           | 1.0  | 8260B     | Total/NA  |
| Trichloroethene             | <1.0   |           | ug/L | 5               | 5.000           | 1.0  | 8260B     | Total/NA  |
| Vinyl chloride              | <0.50  |           | ug/L | 2               | 2.000           | 0.50 | 8260B     | Total/NA  |
| Benzo[a]pyrene              | <0.19  |           | ug/L | 0.2             |                 | 0.19 | 625.1 SIM | Total/NA  |

Client Sample ID: BWS2253-H1-TB

Lab Sample ID: 380-222411-2

## 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<br>Limit | HI Org<br>Limit | RL   | Method | Prep Type |
|-----------------------------|--------|-----------|------|-----------------|-----------------|------|--------|-----------|
| 1,1,1-Trichloroethane       | <1.0   |           | ug/L | 200             | 200.0           | 1.0  | 8260B  | Total/NA  |
| 1,1,2-Trichloroethane       | <1.0   |           | ug/L | 5               | 5.000           | 1.0  | 8260B  | Total/NA  |
| 1,1-Dichloroethene          | <1.0   |           | ug/L | 7               | 7.000           | 1.0  | 8260B  | Total/NA  |
| 1,2,3-Trichloropropane      | <5.0   |           | ug/L |                 | 0.6000          | 5.0  | 8260B  | Total/NA  |
| 1,2,4-Trichlorobenzene      | <1.0   |           | ug/L | 70              | 70.00           | 1.0  | 8260B  | Total/NA  |
| 1,2-Dibromo-3-Chloropropane | <10    |           | ug/L | 0.2             |                 | 10   | 8260B  | Total/NA  |
| 1,2-Dichlorobenzene         | <1.0   |           | ug/L | 600             | 600.0           | 1.0  | 8260B  | Total/NA  |
| 1,2-Dichloroethane          | <0.50  |           | ug/L | 5               | 5.000           | 0.50 | 8260B  | Total/NA  |
| 1,2-Dichloropropane         | <1.0   |           | ug/L | 5               | 5.000           | 1.0  | 8260B  | Total/NA  |
| 1,4-Dichlorobenzene         | <1.0   |           | ug/L | 75              | 75.000          | 1.0  | 8260B  | Total/NA  |
| Benzene                     | <0.50  |           | ug/L | 5               | 5.000           | 0.50 | 8260B  | Total/NA  |

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# Action Limit Summary

Client: City & County of Honolulu  
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-222411-1  
SDG: Site H1 625.1, 8015B\_DRO/\_GRO, 8260B

Client Sample ID: BWS2253-H1-TB (Continued)

Lab Sample ID: 380-222411-2

## 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<br>Limit | HI Org<br>Limit | RL   | Method | Prep Type |
|--------------------------|--------|-----------|------|-----------------|-----------------|------|--------|-----------|
| Bromodichloromethane     | <1.0   |           | ug/L | 80              |                 | 1.0  | 8260B  | Total/NA  |
| Bromoform                | <5.0   |           | ug/L | 80              |                 | 5.0  | 8260B  | Total/NA  |
| Carbon tetrachloride     | <0.50  |           | ug/L | 5               | 5.000           | 0.50 | 8260B  | Total/NA  |
| Chlorobenzene            | <1.0   |           | ug/L | 100             | 100.0           | 1.0  | 8260B  | Total/NA  |
| Chloroform               | <1.0   |           | ug/L | 80              |                 | 1.0  | 8260B  | Total/NA  |
| cis-1,2-Dichloroethene   | <1.0   |           | ug/L | 70              | 70.00           | 1.0  | 8260B  | Total/NA  |
| Dibromochloromethane     | <2.0   |           | ug/L | 80              |                 | 2.0  | 8260B  | Total/NA  |
| Ethylbenzene             | <1.0   |           | ug/L | 700             | 700.0           | 1.0  | 8260B  | Total/NA  |
| Ethylene Dibromide       | <1.0   |           | ug/L | 0.05            |                 | 1.0  | 8260B  | Total/NA  |
| Methylene Chloride       | <10    |           | ug/L | 5               | 5.000           | 10   | 8260B  | Total/NA  |
| Styrene                  | <1.0   |           | ug/L | 100             | 100.0           | 1.0  | 8260B  | Total/NA  |
| Tetrachloroethene        | <1.0   |           | ug/L | 5               | 5.000           | 1.0  | 8260B  | Total/NA  |
| Toluene                  | <1.0   |           | ug/L | 1000            | 1000            | 1.0  | 8260B  | Total/NA  |
| trans-1,2-Dichloroethene | <1.0   |           | ug/L | 100             | 100.0           | 1.0  | 8260B  | Total/NA  |
| Trichloroethene          | <1.0   |           | ug/L | 5               | 5.000           | 1.0  | 8260B  | Total/NA  |
| Vinyl chloride           | <0.50  |           | ug/L | 2               | 2.000           | 0.50 | 8260B  | Total/NA  |

# Surrogate Summary

Client: City & County of Honolulu  
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-222411-1  
SDG: Site H1 625.1, 8015B\_DRO/\_GRO, 8260B

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

| Lab Sample ID       | Client Sample ID       | DCA      | BFB      | DBFM     | TOL      |
|---------------------|------------------------|----------|----------|----------|----------|
|                     |                        | (80-120) | (80-120) | (80-120) | (80-120) |
| 380-222411-1        | BWS2253-H1-AQ          | 100      | 97       | 103      | 105      |
| 380-222411-2        | BWS2253-H1-TB          | 98       | 97       | 101      | 101      |
| 570-286903-A-1 MS   | Matrix Spike           | 103      | 104      | 105      | 100      |
| 570-286903-A-1 MSD  | Matrix Spike Duplicate | 102      | 103      | 106      | 102      |
| LCS 570-766899/1003 | Lab Control Sample     | 99       | 104      | 99       | 99       |
| LCSD 570-766899/4   | Lab Control Sample Dup | 100      | 101      | 101      | 97       |
| MB 570-766899/6     | Method Blank           | 102      | 99       | 104      | 103      |

### Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)  
BFB = 4-Bromofluorobenzene (Surr)  
DBFM = Dibromofluoromethane (Surr)  
TOL = Toluene-d8 (Surr)

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

Matrix: Water

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

| Lab Sample ID     | Client Sample ID | TBP      | FBP      | 2FP      | NBZ      | PHL6     | TPHd14   |
|-------------------|------------------|----------|----------|----------|----------|----------|----------|
|                   |                  | (33-139) | (33-126) | (12-120) | (36-120) | (10-120) | (47-131) |
| 380-222411-1      | BWS2253-H1-AQ    | 64       | 92       | 57       | 71       | 33       | 80       |
| MB 570-764228/1-A | Method Blank     | 56       | 84       | 57       | 48       | 33       | 78       |

### Surrogate Legend

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

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

Matrix: Water

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

| Lab Sample ID        | Client Sample ID       | TBP      | FBP      | 2FP      | NBZ      | PHL6     | TPHd14   |
|----------------------|------------------------|----------|----------|----------|----------|----------|----------|
|                      |                        | (28-127) | (31-120) | (17-120) | (27-120) | (10-120) | (45-120) |
| 380-222411-1         | BWS2253-H1-AQ          | 84       | 75       | 50       | 76       | 30       | 69       |
| 380-222429-A-1-A MS  | Matrix Spike           | 2 S1-    | 5 S1-    | 1 S1-    | 3 S1-    | 0.9 S1-  | 7 S1-    |
| 380-222429-A-1-B MSD | Matrix Spike Duplicate | 96       | 80       | 67       | 78       | 41       | 83       |
| LCS 570-764228/2-A   | Lab Control Sample     | 88       | 82       | 72       | 73       | 50       | 106      |
| LCSD 570-764228/3-A  | Lab Control Sample Dup | 79       | 78       | 66       | 70       | 46       | 100      |
| MB 570-764228/1-A    | Method Blank           | 84       | 82       | 61       | 83       | 39       | 94       |

### 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

Job ID: 380-222411-1

Project/Site: INTERA - Red-Hill-Incident

SDG: Site H1 625.1, 8015B\_DRO/\_GRO, 8260B

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

**Matrix: Water**

**Prep Type: Total/NA**

## Percent Surrogate Recovery (Acceptance Limits)

| Lab Sample ID      | Client Sample ID       | BFB1<br>(38-134) |
|--------------------|------------------------|------------------|
| 380-221326-A-1 MS  | Matrix Spike           | 104              |
| 380-221326-A-1 MSD | Matrix Spike Duplicate | 102              |
| 380-222411-1       | BWS2253-H1-AQ          | 100              |
| 380-222411-2       | BWS2253-H1-TB          | 100              |
| LCS 570-764480/3   | Lab Control Sample     | 98               |
| LCSD 570-764480/4  | Lab Control Sample Dup | 101              |
| MB 570-764480/6    | Method Blank           | 100              |
| MRL 570-764480/5   | Lab Control Sample     | 100              |

### Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

# QC Sample Results

Client: City & County of Honolulu  
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-222411-1  
SDG: Site H1 625.1, 8015B\_DRO/\_GRO, 8260B

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 570-766899/6

Matrix: Water

Analysis Batch: 766899

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte                               | MB Result | MB Qualifier | RL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------------------|-----------|--------------|------|------|---|----------|----------------|---------|
| 1,1,1,2-Tetrachloroethane             | <2.0      |              | 2.0  | ug/L |   |          | 07/10/26 08:26 | 1       |
| 1,1,1-Trichloroethane                 | <1.0      |              | 1.0  | ug/L |   |          | 07/10/26 08:26 | 1       |
| 1,1,2,2-Tetrachloroethane             | <1.0      |              | 1.0  | ug/L |   |          | 07/10/26 08:26 | 1       |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | <10       |              | 10   | ug/L |   |          | 07/10/26 08:26 | 1       |
| 1,1,2-Trichloroethane                 | <1.0      |              | 1.0  | ug/L |   |          | 07/10/26 08:26 | 1       |
| 1,1-Dichloroethane                    | <1.0      |              | 1.0  | ug/L |   |          | 07/10/26 08:26 | 1       |
| 1,1-Dichloroethene                    | <1.0      |              | 1.0  | ug/L |   |          | 07/10/26 08:26 | 1       |
| 1,1-Dichloropropene                   | <1.0      |              | 1.0  | ug/L |   |          | 07/10/26 08:26 | 1       |
| 1,2,3-Trichlorobenzene                | <1.0      |              | 1.0  | ug/L |   |          | 07/10/26 08:26 | 1       |
| 1,2,3-Trichloropropane                | <5.0      |              | 5.0  | ug/L |   |          | 07/10/26 08:26 | 1       |
| 1,2,4-Trichlorobenzene                | <1.0      |              | 1.0  | ug/L |   |          | 07/10/26 08:26 | 1       |
| 1,2,4-Trimethylbenzene                | <1.0      |              | 1.0  | ug/L |   |          | 07/10/26 08:26 | 1       |
| 1,2-Dibromo-3-Chloropropane           | <10       |              | 10   | ug/L |   |          | 07/10/26 08:26 | 1       |
| 1,2-Dichlorobenzene                   | <1.0      |              | 1.0  | ug/L |   |          | 07/10/26 08:26 | 1       |
| 1,2-Dichloroethane                    | <0.50     |              | 0.50 | ug/L |   |          | 07/10/26 08:26 | 1       |
| 1,2-Dichloropropane                   | <1.0      |              | 1.0  | ug/L |   |          | 07/10/26 08:26 | 1       |
| 1,3,5-Trimethylbenzene                | <1.0      |              | 1.0  | ug/L |   |          | 07/10/26 08:26 | 1       |
| 1,3-Dichlorobenzene                   | <1.0      |              | 1.0  | ug/L |   |          | 07/10/26 08:26 | 1       |
| 1,3-Dichloropropane                   | <1.0      |              | 1.0  | ug/L |   |          | 07/10/26 08:26 | 1       |
| 1,4-Dichlorobenzene                   | <1.0      |              | 1.0  | ug/L |   |          | 07/10/26 08:26 | 1       |
| 2,2-Dichloropropane                   | <1.0      |              | 1.0  | ug/L |   |          | 07/10/26 08:26 | 1       |
| 2-Butanone                            | <10       |              | 10   | ug/L |   |          | 07/10/26 08:26 | 1       |
| 2-Chlorotoluene                       | <1.0      |              | 1.0  | ug/L |   |          | 07/10/26 08:26 | 1       |
| 2-Hexanone                            | <10       |              | 10   | ug/L |   |          | 07/10/26 08:26 | 1       |
| 4-Chlorotoluene                       | <1.0      |              | 1.0  | ug/L |   |          | 07/10/26 08:26 | 1       |
| Acetone                               | <10       |              | 10   | ug/L |   |          | 07/10/26 08:26 | 1       |
| Benzene                               | <0.50     |              | 0.50 | ug/L |   |          | 07/10/26 08:26 | 1       |
| Bromobenzene                          | <1.0      |              | 1.0  | ug/L |   |          | 07/10/26 08:26 | 1       |
| Bromochloromethane                    | <2.0      |              | 2.0  | ug/L |   |          | 07/10/26 08:26 | 1       |
| Bromodichloromethane                  | <1.0      |              | 1.0  | ug/L |   |          | 07/10/26 08:26 | 1       |
| Bromoform                             | <5.0      |              | 5.0  | ug/L |   |          | 07/10/26 08:26 | 1       |
| Bromomethane                          | <10       |              | 10   | ug/L |   |          | 07/10/26 08:26 | 1       |
| Carbon disulfide                      | <10       |              | 10   | ug/L |   |          | 07/10/26 08:26 | 1       |
| Carbon tetrachloride                  | <0.50     |              | 0.50 | ug/L |   |          | 07/10/26 08:26 | 1       |
| Chlorobenzene                         | <1.0      |              | 1.0  | ug/L |   |          | 07/10/26 08:26 | 1       |
| Chloroethane                          | <5.0      |              | 5.0  | ug/L |   |          | 07/10/26 08:26 | 1       |
| Chloroform                            | <1.0      |              | 1.0  | ug/L |   |          | 07/10/26 08:26 | 1       |
| Chloromethane                         | <10       |              | 10   | ug/L |   |          | 07/10/26 08:26 | 1       |
| cis-1,2-Dichloroethene                | <1.0      |              | 1.0  | ug/L |   |          | 07/10/26 08:26 | 1       |
| cis-1,3-Dichloropropene               | <0.50     |              | 0.50 | ug/L |   |          | 07/10/26 08:26 | 1       |
| Dibromochloromethane                  | <2.0      |              | 2.0  | ug/L |   |          | 07/10/26 08:26 | 1       |
| Dibromomethane                        | <1.0      |              | 1.0  | ug/L |   |          | 07/10/26 08:26 | 1       |
| Dichlorodifluoromethane               | <5.0      |              | 5.0  | ug/L |   |          | 07/10/26 08:26 | 1       |
| Diethyl ether                         | <10       |              | 10   | ug/L |   |          | 07/10/26 08:26 | 1       |
| Di-isopropyl ether (DIPE)             | <2.0      |              | 2.0  | ug/L |   |          | 07/10/26 08:26 | 1       |
| Ethanol                               | <100      |              | 100  | ug/L |   |          | 07/10/26 08:26 | 1       |
| Ethylbenzene                          | <1.0      |              | 1.0  | ug/L |   |          | 07/10/26 08:26 | 1       |
| Ethylene Dibromide                    | <1.0      |              | 1.0  | ug/L |   |          | 07/10/26 08:26 | 1       |

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# QC Sample Results

Client: City & County of Honolulu  
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-222411-1  
SDG: Site H1 625.1, 8015B\_DRO/\_GRO, 8260B

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 570-766899/6

Matrix: Water

Analysis Batch: 766899

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte                       | MB Result | MB Qualifier | RL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------------------------|-----------|--------------|------|------|---|----------|----------------|---------|
| Ethyl-t-butyl ether (ETBE)    | <2.0      |              | 2.0  | ug/L |   |          | 07/10/26 08:26 | 1       |
| Hexachloro-1,3-butadiene      | <10       |              | 10   | ug/L |   |          | 07/10/26 08:26 | 1       |
| Hexane                        | <5.0      |              | 5.0  | ug/L |   |          | 07/10/26 08:26 | 1       |
| Isobutyl alcohol              | <75       |              | 75   | ug/L |   |          | 07/10/26 08:26 | 1       |
| Isopropanol                   | <75       |              | 75   | ug/L |   |          | 07/10/26 08:26 | 1       |
| Isopropylbenzene              | <1.0      |              | 1.0  | ug/L |   |          | 07/10/26 08:26 | 1       |
| m,p-Xylene                    | <2.0      |              | 2.0  | ug/L |   |          | 07/10/26 08:26 | 1       |
| Methylene Chloride            | <10       |              | 10   | ug/L |   |          | 07/10/26 08:26 | 1       |
| Methyl-t-Butyl Ether (MTBE)   | <1.0      |              | 1.0  | ug/L |   |          | 07/10/26 08:26 | 1       |
| MIBK                          | <10       |              | 10   | ug/L |   |          | 07/10/26 08:26 | 1       |
| Naphthalene                   | <10       |              | 10   | ug/L |   |          | 07/10/26 08:26 | 1       |
| n-Butylbenzene                | <1.0      |              | 1.0  | ug/L |   |          | 07/10/26 08:26 | 1       |
| N-Propylbenzene               | <1.0      |              | 1.0  | ug/L |   |          | 07/10/26 08:26 | 1       |
| o-Xylene                      | <1.0      |              | 1.0  | ug/L |   |          | 07/10/26 08:26 | 1       |
| p-Isopropyltoluene            | <1.0      |              | 1.0  | ug/L |   |          | 07/10/26 08:26 | 1       |
| sec-Butylbenzene              | <1.0      |              | 1.0  | ug/L |   |          | 07/10/26 08:26 | 1       |
| Styrene                       | <1.0      |              | 1.0  | ug/L |   |          | 07/10/26 08:26 | 1       |
| tert-Amyl alcohol             | <50       |              | 50   | ug/L |   |          | 07/10/26 08:26 | 1       |
| Tert-amyl-methyl ether (TAME) | <2.0      |              | 2.0  | ug/L |   |          | 07/10/26 08:26 | 1       |
| tert-Butyl alcohol (TBA)      | <10       |              | 10   | ug/L |   |          | 07/10/26 08:26 | 1       |
| tert-Butylbenzene             | <1.0      |              | 1.0  | ug/L |   |          | 07/10/26 08:26 | 1       |
| Tetrachloroethene             | <1.0      |              | 1.0  | ug/L |   |          | 07/10/26 08:26 | 1       |
| Toluene                       | <1.0      |              | 1.0  | ug/L |   |          | 07/10/26 08:26 | 1       |
| trans-1,2-Dichloroethene      | <1.0      |              | 1.0  | ug/L |   |          | 07/10/26 08:26 | 1       |
| trans-1,3-Dichloropropene     | <0.50     |              | 0.50 | ug/L |   |          | 07/10/26 08:26 | 1       |
| Trichloroethene               | <1.0      |              | 1.0  | ug/L |   |          | 07/10/26 08:26 | 1       |
| Trichlorofluoromethane        | <10       |              | 10   | ug/L |   |          | 07/10/26 08:26 | 1       |
| Vinyl acetate                 | <10       |              | 10   | ug/L |   |          | 07/10/26 08:26 | 1       |
| Vinyl chloride                | <0.50     |              | 0.50 | ug/L |   |          | 07/10/26 08:26 | 1       |

| Surrogate                    | MB %Recovery | MB Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------------|--------------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 102          |              | 80 - 120 |          | 07/10/26 08:26 | 1       |
| 4-Bromofluorobenzene (Surr)  | 99           |              | 80 - 120 |          | 07/10/26 08:26 | 1       |
| Dibromofluoromethane (Surr)  | 104          |              | 80 - 120 |          | 07/10/26 08:26 | 1       |
| Toluene-d8 (Surr)            | 103          |              | 80 - 120 |          | 07/10/26 08:26 | 1       |

Lab Sample ID: LCS 570-766899/1003

Matrix: Water

Analysis Batch: 766899

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                               | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------------------------------------|-------------|------------|---------------|------|---|------|-------------|
| 1,1,1,2-Tetrachloroethane             | 20.0        | 20.5       |               | ug/L |   | 103  | 83 - 120    |
| 1,1,1-Trichloroethane                 | 20.0        | 21.3       |               | ug/L |   | 107  | 78 - 123    |
| 1,1,2,2-Tetrachloroethane             | 20.0        | 18.2       |               | ug/L |   | 91   | 74 - 125    |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 20.0        | 21.8       |               | ug/L |   | 109  | 72 - 130    |
| 1,1,2-Trichloroethane                 | 20.0        | 18.8       |               | ug/L |   | 94   | 82 - 120    |
| 1,1-Dichloroethane                    | 20.0        | 18.9       |               | ug/L |   | 94   | 79 - 122    |
| 1,1-Dichloroethene                    | 20.0        | 20.3       |               | ug/L |   | 102  | 74 - 127    |

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# QC Sample Results

Client: City & County of Honolulu  
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-222411-1  
SDG: Site H1 625.1, 8015B\_DRO/\_GRO, 8260B

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 570-766899/1003

Matrix: Water

Analysis Batch: 766899

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                     | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|-----------------------------|-------------|------------|---------------|------|---|------|-------------|
| 1,1-Dichloropropene         | 20.0        | 20.1       |               | ug/L |   | 101  | 75 - 124    |
| 1,2,3-Trichlorobenzene      | 20.0        | 18.8       |               | ug/L |   | 94   | 71 - 126    |
| 1,2,3-Trichloropropane      | 20.0        | 19.1       |               | ug/L |   | 96   | 73 - 121    |
| 1,2,4-Trichlorobenzene      | 20.0        | 19.2       |               | ug/L |   | 96   | 70 - 130    |
| 1,2,4-Trimethylbenzene      | 20.0        | 18.6       |               | ug/L |   | 93   | 80 - 125    |
| 1,2-Dibromo-3-Chloropropane | 20.0        | 16.6       |               | ug/L |   | 83   | 64 - 127    |
| 1,2-Dichlorobenzene         | 20.0        | 17.5       |               | ug/L |   | 87   | 78 - 122    |
| 1,2-Dichloroethane          | 20.0        | 19.6       |               | ug/L |   | 98   | 76 - 123    |
| 1,2-Dichloropropane         | 20.0        | 19.5       |               | ug/L |   | 98   | 82 - 120    |
| 1,3,5-Trimethylbenzene      | 20.0        | 20.3       |               | ug/L |   | 102  | 79 - 124    |
| 1,3-Dichlorobenzene         | 20.0        | 18.8       |               | ug/L |   | 94   | 81 - 120    |
| 1,3-Dichloropropane         | 20.0        | 18.5       |               | ug/L |   | 93   | 82 - 120    |
| 1,4-Dichlorobenzene         | 20.0        | 18.6       |               | ug/L |   | 93   | 78 - 121    |
| 2,2-Dichloropropane         | 20.0        | 21.8       |               | ug/L |   | 109  | 69 - 133    |
| 2-Butanone                  | 20.0        | 17.6       |               | ug/L |   | 88   | 55 - 142    |
| 2-Chlorotoluene             | 20.0        | 19.8       |               | ug/L |   | 99   | 80 - 120    |
| 2-Hexanone                  | 20.0        | 19.1       |               | ug/L |   | 95   | 54 - 138    |
| 4-Chlorotoluene             | 20.0        | 18.3       |               | ug/L |   | 91   | 80 - 121    |
| Acetone                     | 20.0        | 24.4       |               | ug/L |   | 122  | 50 - 157    |
| Benzene                     | 20.0        | 19.9       |               | ug/L |   | 100  | 80 - 120    |
| Bromobenzene                | 20.0        | 20.0       |               | ug/L |   | 100  | 80 - 120    |
| Bromochloromethane          | 20.0        | 19.6       |               | ug/L |   | 98   | 83 - 123    |
| Bromodichloromethane        | 20.0        | 20.2       |               | ug/L |   | 101  | 83 - 120    |
| Bromoform                   | 20.0        | 18.1       |               | ug/L |   | 90   | 75 - 128    |
| Bromomethane                | 20.0        | 23.4       |               | ug/L |   | 117  | 31 - 120    |
| Carbon disulfide            | 20.0        | 19.0       |               | ug/L |   | 95   | 71 - 128    |
| Carbon tetrachloride        | 20.0        | 22.3       |               | ug/L |   | 111  | 72 - 135    |
| Chlorobenzene               | 20.0        | 19.7       |               | ug/L |   | 98   | 84 - 120    |
| Chloroethane                | 20.0        | 21.8       |               | ug/L |   | 109  | 72 - 129    |
| Chloroform                  | 20.0        | 19.5       |               | ug/L |   | 97   | 79 - 120    |
| Chloromethane               | 20.0        | 15.8       |               | ug/L |   | 79   | 36 - 148    |
| cis-1,2-Dichloroethene      | 20.0        | 18.5       |               | ug/L |   | 93   | 81 - 120    |
| cis-1,3-Dichloropropene     | 20.0        | 20.9       |               | ug/L |   | 105  | 76 - 125    |
| Dibromochloromethane        | 20.0        | 19.8       |               | ug/L |   | 99   | 82 - 120    |
| Dibromomethane              | 20.0        | 19.2       |               | ug/L |   | 96   | 85 - 120    |
| Dichlorodifluoromethane     | 20.0        | 23.6       |               | ug/L |   | 118  | 52 - 147    |
| Diethyl ether               | 20.0        | 19.0       |               | ug/L |   | 95   | 71 - 127    |
| Di-isopropyl ether (DIPE)   | 20.0        | 16.1       |               | ug/L |   | 81   | 70 - 132    |
| Ethanol                     | 200         | 180        |               | ug/L |   | 90   | 48 - 163    |
| Ethylbenzene                | 20.0        | 19.7       |               | ug/L |   | 98   | 81 - 120    |
| Ethylene Dibromide          | 20.0        | 20.4       |               | ug/L |   | 102  | 81 - 120    |
| Ethyl-t-butyl ether (ETBE)  | 20.0        | 16.4       |               | ug/L |   | 82   | 68 - 126    |
| Isopropylbenzene            | 20.0        | 20.2       |               | ug/L |   | 101  | 80 - 122    |
| m,p-Xylene                  | 40.0        | 39.4       |               | ug/L |   | 99   | 79 - 122    |
| Methylene Chloride          | 20.0        | 18.9       |               | ug/L |   | 95   | 76 - 120    |
| Methyl-t-Butyl Ether (MTBE) | 20.0        | 17.3       |               | ug/L |   | 86   | 70 - 124    |
| MIBK                        | 20.0        | 16.4       |               | ug/L |   | 82   | 57 - 133    |
| Naphthalene                 | 20.0        | 16.7       |               | ug/L |   | 83   | 64 - 124    |
| n-Butylbenzene              | 20.0        | 19.9       |               | ug/L |   | 99   | 78 - 127    |

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# QC Sample Results

Client: City & County of Honolulu  
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-222411-1  
SDG: Site H1 625.1, 8015B\_DRO/\_GRO, 8260B

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 570-766899/1003

Matrix: Water

Analysis Batch: 766899

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                       | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|-------------------------------|-------------|------------|---------------|------|---|------|-------------|
| N-Propylbenzene               | 20.0        | 20.6       |               | ug/L |   | 103  | 80 - 121    |
| o-Xylene                      | 20.0        | 19.1       |               | ug/L |   | 96   | 81 - 120    |
| p-Isopropyltoluene            | 20.0        | 19.2       |               | ug/L |   | 96   | 81 - 124    |
| sec-Butylbenzene              | 20.0        | 19.6       |               | ug/L |   | 98   | 80 - 123    |
| Styrene                       | 20.0        | 19.3       |               | ug/L |   | 96   | 82 - 120    |
| tert-Amyl alcohol             | 100         | 83.2       |               | ug/L |   | 83   | 30 - 157    |
| Tert-amyl-methyl ether (TAME) | 20.0        | 17.9       |               | ug/L |   | 90   | 71 - 121    |
| tert-Butyl alcohol (TBA)      | 100         | 90.8       |               | ug/L |   | 91   | 68 - 128    |
| tert-Butylbenzene             | 20.0        | 20.2       |               | ug/L |   | 101  | 80 - 124    |
| Tetrachloroethene             | 20.0        | 20.5       |               | ug/L |   | 103  | 78 - 126    |
| Toluene                       | 20.0        | 19.1       |               | ug/L |   | 95   | 82 - 120    |
| trans-1,2-Dichloroethene      | 20.0        | 18.8       |               | ug/L |   | 94   | 79 - 122    |
| trans-1,3-Dichloropropene     | 20.0        | 21.2       |               | ug/L |   | 106  | 73 - 127    |
| Trichloroethene               | 20.0        | 19.8       |               | ug/L |   | 99   | 83 - 120    |
| Trichlorofluoromethane        | 20.0        | 23.5       |               | ug/L |   | 117  | 74 - 135    |
| Vinyl acetate                 | 20.0        | 20.6       |               | ug/L |   | 103  | 56 - 135    |
| Vinyl chloride                | 20.0        | 20.2       |               | ug/L |   | 101  | 68 - 131    |

| Surrogate                    | LCS %Recovery | LCS Qualifier | Limits   |
|------------------------------|---------------|---------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 99            |               | 80 - 120 |
| 4-Bromofluorobenzene (Surr)  | 104           |               | 80 - 120 |
| Dibromofluoromethane (Surr)  | 99            |               | 80 - 120 |
| Toluene-d8 (Surr)            | 99            |               | 80 - 120 |

Lab Sample ID: LCSD 570-766899/4

Matrix: Water

Analysis Batch: 766899

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

| Analyte                               | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------------------------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| 1,1,1,2-Tetrachloroethane             | 20.0        | 19.9        |                | ug/L |   | 100  | 83 - 120    | 3   | 20        |
| 1,1,1-Trichloroethane                 | 20.0        | 20.1        |                | ug/L |   | 101  | 78 - 123    | 6   | 20        |
| 1,1,2,2-Tetrachloroethane             | 20.0        | 18.6        |                | ug/L |   | 93   | 74 - 125    | 2   | 20        |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 20.0        | 21.4        |                | ug/L |   | 107  | 72 - 130    | 2   | 20        |
| 1,1,2-Trichloroethane                 | 20.0        | 20.1        |                | ug/L |   | 100  | 82 - 120    | 7   | 20        |
| 1,1-Dichloroethane                    | 20.0        | 17.7        |                | ug/L |   | 89   | 79 - 122    | 6   | 20        |
| 1,1-Dichloroethene                    | 20.0        | 18.3        |                | ug/L |   | 92   | 74 - 127    | 10  | 20        |
| 1,1-Dichloropropene                   | 20.0        | 19.5        |                | ug/L |   | 98   | 75 - 124    | 3   | 20        |
| 1,2,3-Trichlorobenzene                | 20.0        | 20.3        |                | ug/L |   | 101  | 71 - 126    | 7   | 20        |
| 1,2,3-Trichloropropane                | 20.0        | 19.4        |                | ug/L |   | 97   | 73 - 121    | 1   | 20        |
| 1,2,4-Trichlorobenzene                | 20.0        | 20.6        |                | ug/L |   | 103  | 70 - 130    | 7   | 20        |
| 1,2,4-Trimethylbenzene                | 20.0        | 19.1        |                | ug/L |   | 95   | 80 - 125    | 3   | 20        |
| 1,2-Dibromo-3-Chloropropane           | 20.0        | 17.0        |                | ug/L |   | 85   | 64 - 127    | 3   | 20        |
| 1,2-Dichlorobenzene                   | 20.0        | 18.2        |                | ug/L |   | 91   | 78 - 122    | 4   | 20        |
| 1,2-Dichloroethane                    | 20.0        | 19.2        |                | ug/L |   | 96   | 76 - 123    | 2   | 20        |
| 1,2-Dichloropropane                   | 20.0        | 18.8        |                | ug/L |   | 94   | 82 - 120    | 4   | 20        |
| 1,3,5-Trimethylbenzene                | 20.0        | 19.9        |                | ug/L |   | 99   | 79 - 124    | 2   | 20        |
| 1,3-Dichlorobenzene                   | 20.0        | 19.8        |                | ug/L |   | 99   | 81 - 120    | 5   | 20        |
| 1,3-Dichloropropane                   | 20.0        | 19.0        |                | ug/L |   | 95   | 82 - 120    | 3   | 20        |

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# QC Sample Results

Client: City & County of Honolulu  
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-222411-1  
SDG: Site H1 625.1, 8015B\_DRO/\_GRO, 8260B

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 570-766899/4

Matrix: Water

Analysis Batch: 766899

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

| Analyte                       | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|-------------------------------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| 1,4-Dichlorobenzene           | 20.0        | 19.2        |                | ug/L |   | 96   | 78 - 121    | 3   | 20        |
| 2,2-Dichloropropane           | 20.0        | 20.7        |                | ug/L |   | 103  | 69 - 133    | 5   | 20        |
| 2-Butanone                    | 20.0        | 19.3        |                | ug/L |   | 97   | 55 - 142    | 9   | 21        |
| 2-Chlorotoluene               | 20.0        | 19.2        |                | ug/L |   | 96   | 80 - 120    | 3   | 20        |
| 2-Hexanone                    | 20.0        | 21.1        |                | ug/L |   | 106  | 54 - 138    | 10  | 21        |
| 4-Chlorotoluene               | 20.0        | 18.9        |                | ug/L |   | 95   | 80 - 121    | 4   | 20        |
| Acetone                       | 20.0        | 25.3        |                | ug/L |   | 126  | 50 - 157    | 3   | 26        |
| Benzene                       | 20.0        | 18.8        |                | ug/L |   | 94   | 80 - 120    | 6   | 20        |
| Bromobenzene                  | 20.0        | 19.5        |                | ug/L |   | 97   | 80 - 120    | 3   | 20        |
| Bromochloromethane            | 20.0        | 19.4        |                | ug/L |   | 97   | 83 - 123    | 1   | 20        |
| Bromodichloromethane          | 20.0        | 19.9        |                | ug/L |   | 99   | 83 - 120    | 1   | 20        |
| Bromoform                     | 20.0        | 18.8        |                | ug/L |   | 94   | 75 - 128    | 4   | 20        |
| Bromomethane                  | 20.0        | 19.6        |                | ug/L |   | 98   | 31 - 120    | 18  | 22        |
| Carbon disulfide              | 20.0        | 17.7        |                | ug/L |   | 88   | 71 - 128    | 7   | 20        |
| Carbon tetrachloride          | 20.0        | 20.4        |                | ug/L |   | 102  | 72 - 135    | 9   | 20        |
| Chlorobenzene                 | 20.0        | 19.3        |                | ug/L |   | 96   | 84 - 120    | 2   | 20        |
| Chloroethane                  | 20.0        | 20.6        |                | ug/L |   | 103  | 72 - 129    | 5   | 20        |
| Chloroform                    | 20.0        | 18.7        |                | ug/L |   | 93   | 79 - 120    | 4   | 20        |
| Chloromethane                 | 20.0        | 16.1        |                | ug/L |   | 81   | 36 - 148    | 2   | 20        |
| cis-1,2-Dichloroethene        | 20.0        | 17.2        |                | ug/L |   | 86   | 81 - 120    | 7   | 20        |
| cis-1,3-Dichloropropene       | 20.0        | 20.3        |                | ug/L |   | 102  | 76 - 125    | 3   | 20        |
| Dibromochloromethane          | 20.0        | 19.2        |                | ug/L |   | 96   | 82 - 120    | 3   | 20        |
| Dibromomethane                | 20.0        | 19.1        |                | ug/L |   | 96   | 85 - 120    | 1   | 20        |
| Dichlorodifluoromethane       | 20.0        | 22.4        |                | ug/L |   | 112  | 52 - 147    | 5   | 20        |
| Diethyl ether                 | 20.0        | 19.0        |                | ug/L |   | 95   | 71 - 127    | 0   | 20        |
| Di-isopropyl ether (DIPE)     | 20.0        | 16.0        |                | ug/L |   | 80   | 70 - 132    | 1   | 20        |
| Ethanol                       | 200         | 188         |                | ug/L |   | 94   | 48 - 163    | 5   | 30        |
| Ethylbenzene                  | 20.0        | 18.9        |                | ug/L |   | 94   | 81 - 120    | 4   | 20        |
| Ethylene Dibromide            | 20.0        | 20.5        |                | ug/L |   | 102  | 81 - 120    | 0   | 20        |
| Ethyl-t-butyl ether (ETBE)    | 20.0        | 16.8        |                | ug/L |   | 84   | 68 - 126    | 2   | 20        |
| Isopropylbenzene              | 20.0        | 19.0        |                | ug/L |   | 95   | 80 - 122    | 6   | 20        |
| m,p-Xylene                    | 40.0        | 37.4        |                | ug/L |   | 94   | 79 - 122    | 5   | 20        |
| Methylene Chloride            | 20.0        | 18.8        |                | ug/L |   | 94   | 76 - 120    | 1   | 20        |
| Methyl-t-Butyl Ether (MTBE)   | 20.0        | 17.8        |                | ug/L |   | 89   | 70 - 124    | 3   | 20        |
| MIBK                          | 20.0        | 17.4        |                | ug/L |   | 87   | 57 - 133    | 5   | 20        |
| Naphthalene                   | 20.0        | 18.3        |                | ug/L |   | 91   | 64 - 124    | 9   | 20        |
| n-Butylbenzene                | 20.0        | 19.7        |                | ug/L |   | 98   | 78 - 127    | 1   | 20        |
| N-Propylbenzene               | 20.0        | 19.4        |                | ug/L |   | 97   | 80 - 121    | 6   | 20        |
| o-Xylene                      | 20.0        | 18.9        |                | ug/L |   | 94   | 81 - 120    | 1   | 20        |
| p-Isopropyltoluene            | 20.0        | 19.4        |                | ug/L |   | 97   | 81 - 124    | 1   | 20        |
| sec-Butylbenzene              | 20.0        | 19.6        |                | ug/L |   | 98   | 80 - 123    | 0   | 20        |
| Styrene                       | 20.0        | 18.9        |                | ug/L |   | 94   | 82 - 120    | 2   | 20        |
| tert-Amyl alcohol             | 100         | 89.4        |                | ug/L |   | 89   | 30 - 157    | 7   | 30        |
| Tert-amyl-methyl ether (TAME) | 20.0        | 17.7        |                | ug/L |   | 88   | 71 - 121    | 1   | 20        |
| tert-Butyl alcohol (TBA)      | 100         | 98.4        |                | ug/L |   | 98   | 68 - 128    | 8   | 20        |
| tert-Butylbenzene             | 20.0        | 19.8        |                | ug/L |   | 99   | 80 - 124    | 2   | 20        |
| Tetrachloroethene             | 20.0        | 19.4        |                | ug/L |   | 97   | 78 - 126    | 6   | 20        |
| Toluene                       | 20.0        | 18.0        |                | ug/L |   | 90   | 82 - 120    | 6   | 20        |
| trans-1,2-Dichloroethene      | 20.0        | 18.3        |                | ug/L |   | 91   | 79 - 122    | 3   | 20        |

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# QC Sample Results

Client: City & County of Honolulu  
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-222411-1  
SDG: Site H1 625.1, 8015B\_DRO/\_GRO, 8260B

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 570-766899/4

Matrix: Water

Analysis Batch: 766899

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

| Analyte                   | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| trans-1,3-Dichloropropene | 20.0        | 20.7        |                | ug/L |   | 103  | 73 - 127    | 2   | 20        |
| Trichloroethene           | 20.0        | 18.6        |                | ug/L |   | 93   | 83 - 120    | 7   | 20        |
| Trichlorofluoromethane    | 20.0        | 22.2        |                | ug/L |   | 111  | 74 - 135    | 6   | 20        |
| Vinyl acetate             | 20.0        | 22.2        |                | ug/L |   | 111  | 56 - 135    | 8   | 24        |
| Vinyl chloride            | 20.0        | 18.4        |                | ug/L |   | 92   | 68 - 131    | 9   | 20        |

| Surrogate                    | LCSD %Recovery | LCSD Qualifier | Limits   |
|------------------------------|----------------|----------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 100            |                | 80 - 120 |
| 4-Bromofluorobenzene (Surr)  | 101            |                | 80 - 120 |
| Dibromofluoromethane (Surr)  | 101            |                | 80 - 120 |
| Toluene-d8 (Surr)            | 97             |                | 80 - 120 |

Lab Sample ID: 570-286903-A-1 MS

Matrix: Water

Analysis Batch: 766899

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 |
|---------------------------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| 1,1,1,2-Tetrachloroethane             | <2.0          |                  | 20.0        | 19.9      |              | ug/L |   | 99   | 56 - 156    |
| 1,1,1-Trichloroethane                 | <1.0          |                  | 20.0        | 22.9      |              | ug/L |   | 114  | 56 - 155    |
| 1,1,2,2-Tetrachloroethane             | <1.0          |                  | 20.0        | 17.0      |              | ug/L |   | 85   | 52 - 151    |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | <10           |                  | 20.0        | 23.5      |              | ug/L |   | 118  | 45 - 156    |
| 1,1,2-Trichloroethane                 | <1.0          |                  | 20.0        | 19.1      |              | ug/L |   | 96   | 64 - 142    |
| 1,1-Dichloroethane                    | <1.0          |                  | 20.0        | 20.3      |              | ug/L |   | 102  | 58 - 151    |
| 1,1-Dichloroethene                    | <1.0          |                  | 20.0        | 21.1      |              | ug/L |   | 106  | 51 - 160    |
| 1,1-Dichloropropene                   | <1.0          |                  | 20.0        | 21.0      |              | ug/L |   | 105  | 59 - 151    |
| 1,2,3-Trichlorobenzene                | <1.0          |                  | 20.0        | 17.5      |              | ug/L |   | 88   | 56 - 148    |
| 1,2,3-Trichloropropane                | <5.0          |                  | 20.0        | 17.3      |              | ug/L |   | 87   | 54 - 145    |
| 1,2,4-Trichlorobenzene                | <1.0          |                  | 20.0        | 19.1      |              | ug/L |   | 96   | 51 - 149    |
| 1,2,4-Trimethylbenzene                | <1.0          |                  | 20.0        | 19.4      |              | ug/L |   | 97   | 54 - 149    |
| 1,2-Dibromo-3-Chloropropane           | <10           |                  | 20.0        | 15.6      |              | ug/L |   | 78   | 43 - 149    |
| 1,2-Dichlorobenzene                   | <1.0          |                  | 20.0        | 18.4      |              | ug/L |   | 92   | 64 - 144    |
| 1,2-Dichloroethane                    | <0.50         |                  | 20.0        | 20.5      |              | ug/L |   | 102  | 63 - 142    |
| 1,2-Dichloropropane                   | <1.0          |                  | 20.0        | 19.8      |              | ug/L |   | 99   | 64 - 144    |
| 1,3,5-Trimethylbenzene                | <1.0          |                  | 20.0        | 21.8      |              | ug/L |   | 109  | 62 - 147    |
| 1,3-Dichlorobenzene                   | <1.0          |                  | 20.0        | 19.7      |              | ug/L |   | 99   | 63 - 143    |
| 1,3-Dichloropropane                   | <1.0          |                  | 20.0        | 18.7      |              | ug/L |   | 94   | 66 - 140    |
| 1,4-Dichlorobenzene                   | <1.0          |                  | 20.0        | 19.9      |              | ug/L |   | 100  | 62 - 141    |
| 2,2-Dichloropropane                   | <1.0          |                  | 20.0        | 22.8      |              | ug/L |   | 114  | 35 - 151    |
| 2-Butanone                            | <10           |                  | 20.0        | 17.0      |              | ug/L |   | 85   | 44 - 162    |
| 2-Chlorotoluene                       | <1.0          |                  | 20.0        | 21.2      |              | ug/L |   | 106  | 64 - 142    |
| 2-Hexanone                            | <10           |                  | 20.0        | 18.1      |              | ug/L |   | 91   | 40 - 151    |
| 4-Chlorotoluene                       | <1.0          |                  | 20.0        | 19.7      |              | ug/L |   | 99   | 61 - 144    |
| Acetone                               | <10           |                  | 20.0        | 22.2      |              | ug/L |   | 111  | 34 - 174    |
| Benzene                               | <0.50         |                  | 20.0        | 20.4      |              | ug/L |   | 102  | 64 - 143    |
| Bromobenzene                          | <1.0          |                  | 20.0        | 19.9      |              | ug/L |   | 100  | 67 - 144    |
| Bromochloromethane                    | <2.0          |                  | 20.0        | 20.5      |              | ug/L |   | 102  | 70 - 149    |
| Bromodichloromethane                  | 24            |                  | 20.0        | 46.9      |              | ug/L |   | 117  | 64 - 145    |
| Bromoform                             | <5.0          |                  | 20.0        | 17.9      |              | ug/L |   | 90   | 43 - 165    |

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# QC Sample Results

Client: City & County of Honolulu  
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-222411-1  
SDG: Site H1 625.1, 8015B\_DRO/\_GRO, 8260B

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 570-286903-A-1 MS

Matrix: Water

Analysis Batch: 766899

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 |
|-------------------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Bromomethane                  | <10           |                  | 20.0        | 23.3      |              | ug/L |   | 116  | 25 - 180    |
| Carbon disulfide              | <10           |                  | 20.0        | 20.7      |              | ug/L |   | 104  | 50 - 156    |
| Carbon tetrachloride          | <0.50         |                  | 20.0        | 23.3      |              | ug/L |   | 116  | 51 - 167    |
| Chlorobenzene                 | <1.0          |                  | 20.0        | 20.2      |              | ug/L |   | 101  | 67 - 141    |
| Chloroethane                  | <5.0          |                  | 20.0        | 24.4      |              | ug/L |   | 122  | 46 - 167    |
| Chloroform                    | 58            |                  | 20.0        | 80.0      |              | ug/L |   | 110  | 62 - 143    |
| Chloromethane                 | <10           |                  | 20.0        | 18.1      |              | ug/L |   | 90   | 33 - 163    |
| cis-1,2-Dichloroethene        | <1.0          |                  | 20.0        | 19.9      |              | ug/L |   | 99   | 57 - 152    |
| cis-1,3-Dichloropropene       | <0.50         |                  | 20.0        | 20.2      |              | ug/L |   | 101  | 55 - 141    |
| Dibromochloromethane          | 6.6           |                  | 20.0        | 26.6      |              | ug/L |   | 100  | 54 - 155    |
| Dibromomethane                | <1.0          |                  | 20.0        | 18.9      |              | ug/L |   | 95   | 68 - 143    |
| Dichlorodifluoromethane       | <5.0          |                  | 20.0        | 25.6      |              | ug/L |   | 128  | 36 - 159    |
| Diethyl ether                 | <10           |                  | 20.0        | 19.5      |              | ug/L |   | 97   | 53 - 151    |
| Di-isopropyl ether (DIPE)     | <2.0          |                  | 20.0        | 16.0      |              | ug/L |   | 80   | 50 - 157    |
| Ethanol                       | <100          |                  | 200         | 165       |              | ug/L |   | 83   | 29 - 180    |
| Ethylbenzene                  | <1.0          |                  | 20.0        | 20.7      |              | ug/L |   | 103  | 62 - 145    |
| Ethylene Dibromide            | <1.0          |                  | 20.0        | 19.8      |              | ug/L |   | 99   | 65 - 141    |
| Ethyl-t-butyl ether (ETBE)    | <2.0          |                  | 20.0        | 15.9      |              | ug/L |   | 80   | 49 - 144    |
| Isopropylbenzene              | <1.0          |                  | 20.0        | 21.1      |              | ug/L |   | 106  | 64 - 146    |
| m,p-Xylene                    | <2.0          |                  | 40.0        | 41.1      |              | ug/L |   | 103  | 61 - 146    |
| Methylene Chloride            | <10           |                  | 20.0        | 20.5      |              | ug/L |   | 102  | 59 - 143    |
| Methyl-t-Butyl Ether (MTBE)   | <1.0          |                  | 20.0        | 17.0      |              | ug/L |   | 85   | 52 - 145    |
| MIBK                          | <10           |                  | 20.0        | 16.8      |              | ug/L |   | 84   | 46 - 144    |
| Naphthalene                   | <10           |                  | 20.0        | 15.8      |              | ug/L |   | 79   | 41 - 148    |
| n-Butylbenzene                | <1.0          |                  | 20.0        | 20.7      |              | ug/L |   | 104  | 54 - 150    |
| N-Propylbenzene               | <1.0          |                  | 20.0        | 21.6      |              | ug/L |   | 108  | 63 - 146    |
| o-Xylene                      | <1.0          |                  | 20.0        | 20.3      |              | ug/L |   | 101  | 64 - 144    |
| p-Isopropyltoluene            | <1.0          |                  | 20.0        | 20.1      |              | ug/L |   | 101  | 59 - 147    |
| sec-Butylbenzene              | <1.0          |                  | 20.0        | 20.5      |              | ug/L |   | 103  | 60 - 147    |
| Styrene                       | <1.0          |                  | 20.0        | 20.4      |              | ug/L |   | 102  | 44 - 154    |
| tert-Amyl alcohol             | <50           |                  | 100         | 78.8      |              | ug/L |   | 79   | 25 - 164    |
| Tert-amyl-methyl ether (TAME) | <2.0          |                  | 20.0        | 17.2      |              | ug/L |   | 86   | 55 - 137    |
| tert-Butyl alcohol (TBA)      | <10           |                  | 100         | 98.7      |              | ug/L |   | 99   | 56 - 154    |
| tert-Butylbenzene             | <1.0          |                  | 20.0        | 20.8      |              | ug/L |   | 104  | 61 - 149    |
| Tetrachloroethene             | <1.0          |                  | 20.0        | 20.8      |              | ug/L |   | 104  | 60 - 151    |
| Toluene                       | <1.0          |                  | 20.0        | 20.0      |              | ug/L |   | 100  | 64 - 144    |
| trans-1,2-Dichloroethene      | <1.0          |                  | 20.0        | 20.7      |              | ug/L |   | 103  | 56 - 156    |
| trans-1,3-Dichloropropene     | <0.50         |                  | 20.0        | 20.7      |              | ug/L |   | 104  | 52 - 143    |
| Trichloroethene               | <1.0          |                  | 20.0        | 20.2      |              | ug/L |   | 101  | 41 - 169    |
| Trichlorofluoromethane        | <10           |                  | 20.0        | 25.8      |              | ug/L |   | 129  | 54 - 161    |
| Vinyl acetate                 | <10           |                  | 20.0        | 18.2      |              | ug/L |   | 91   | 30 - 155    |
| Vinyl chloride                | <0.50         |                  | 20.0        | 21.3      |              | ug/L |   | 107  | 49 - 164    |

| Surrogate                    | MS %Recovery | MS Qualifier | Limits   |
|------------------------------|--------------|--------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 103          |              | 80 - 120 |
| 4-Bromofluorobenzene (Surr)  | 104          |              | 80 - 120 |
| Dibromofluoromethane (Surr)  | 105          |              | 80 - 120 |
| Toluene-d8 (Surr)            | 100          |              | 80 - 120 |

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# QC Sample Results

Client: City & County of Honolulu  
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-222411-1  
SDG: Site H1 625.1, 8015B\_DRO/\_GRO, 8260B

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 570-286903-A-1 MSD

Matrix: Water

Analysis Batch: 766899

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 |
|---------------------------------------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| 1,1,1,2-Tetrachloroethane             | <2.0          |                  | 20.0        | 19.8       |               | ug/L |   | 99   | 56 - 156    | 0   | 20        |
| 1,1,1-Trichloroethane                 | <1.0          |                  | 20.0        | 22.7       |               | ug/L |   | 114  | 56 - 155    | 1   | 20        |
| 1,1,2,2-Tetrachloroethane             | <1.0          |                  | 20.0        | 16.7       |               | ug/L |   | 84   | 52 - 151    | 1   | 20        |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | <10           |                  | 20.0        | 22.9       |               | ug/L |   | 114  | 45 - 156    | 3   | 20        |
| 1,1,2-Trichloroethane                 | <1.0          |                  | 20.0        | 18.5       |               | ug/L |   | 92   | 64 - 142    | 3   | 20        |
| 1,1-Dichloroethane                    | <1.0          |                  | 20.0        | 20.3       |               | ug/L |   | 101  | 58 - 151    | 0   | 20        |
| 1,1-Dichloroethene                    | <1.0          |                  | 20.0        | 21.1       |               | ug/L |   | 106  | 51 - 160    | 0   | 20        |
| 1,1-Dichloropropene                   | <1.0          |                  | 20.0        | 21.4       |               | ug/L |   | 107  | 59 - 151    | 2   | 20        |
| 1,2,3-Trichlorobenzene                | <1.0          |                  | 20.0        | 17.9       |               | ug/L |   | 90   | 56 - 148    | 2   | 20        |
| 1,2,3-Trichloropropane                | <5.0          |                  | 20.0        | 16.9       |               | ug/L |   | 84   | 54 - 145    | 3   | 20        |
| 1,2,4-Trichlorobenzene                | <1.0          |                  | 20.0        | 19.7       |               | ug/L |   | 98   | 51 - 149    | 3   | 20        |
| 1,2,4-Trimethylbenzene                | <1.0          |                  | 20.0        | 19.6       |               | ug/L |   | 98   | 54 - 149    | 1   | 20        |
| 1,2-Dibromo-3-Chloropropane           | <10           |                  | 20.0        | 15.1       |               | ug/L |   | 76   | 43 - 149    | 3   | 20        |
| 1,2-Dichlorobenzene                   | <1.0          |                  | 20.0        | 18.2       |               | ug/L |   | 91   | 64 - 144    | 1   | 20        |
| 1,2-Dichloroethane                    | <0.50         |                  | 20.0        | 20.6       |               | ug/L |   | 103  | 63 - 142    | 1   | 20        |
| 1,2-Dichloropropane                   | <1.0          |                  | 20.0        | 20.7       |               | ug/L |   | 104  | 64 - 144    | 5   | 20        |
| 1,3,5-Trimethylbenzene                | <1.0          |                  | 20.0        | 21.0       |               | ug/L |   | 105  | 62 - 147    | 4   | 20        |
| 1,3-Dichlorobenzene                   | <1.0          |                  | 20.0        | 20.0       |               | ug/L |   | 100  | 63 - 143    | 1   | 20        |
| 1,3-Dichloropropane                   | <1.0          |                  | 20.0        | 17.9       |               | ug/L |   | 90   | 66 - 140    | 5   | 20        |
| 1,4-Dichlorobenzene                   | <1.0          |                  | 20.0        | 19.4       |               | ug/L |   | 97   | 62 - 141    | 3   | 20        |
| 2,2-Dichloropropane                   | <1.0          |                  | 20.0        | 22.8       |               | ug/L |   | 114  | 35 - 151    | 0   | 20        |
| 2-Butanone                            | <10           |                  | 20.0        | 16.6       |               | ug/L |   | 83   | 44 - 162    | 2   | 20        |
| 2-Chlorotoluene                       | <1.0          |                  | 20.0        | 20.9       |               | ug/L |   | 104  | 64 - 142    | 2   | 20        |
| 2-Hexanone                            | <10           |                  | 20.0        | 17.3       |               | ug/L |   | 86   | 40 - 151    | 5   | 20        |
| 4-Chlorotoluene                       | <1.0          |                  | 20.0        | 19.6       |               | ug/L |   | 98   | 61 - 144    | 1   | 20        |
| Acetone                               | <10           |                  | 20.0        | 23.2       |               | ug/L |   | 116  | 34 - 174    | 4   | 20        |
| Benzene                               | <0.50         |                  | 20.0        | 20.5       |               | ug/L |   | 103  | 64 - 143    | 0   | 20        |
| Bromobenzene                          | <1.0          |                  | 20.0        | 20.2       |               | ug/L |   | 101  | 67 - 144    | 2   | 20        |
| Bromochloromethane                    | <2.0          |                  | 20.0        | 20.9       |               | ug/L |   | 104  | 70 - 149    | 2   | 20        |
| Bromodichloromethane                  | 24            |                  | 20.0        | 47.2       |               | ug/L |   | 118  | 64 - 145    | 1   | 20        |
| Bromoform                             | <5.0          |                  | 20.0        | 18.0       |               | ug/L |   | 90   | 43 - 165    | 0   | 20        |
| Bromomethane                          | <10           |                  | 20.0        | 21.8       |               | ug/L |   | 109  | 25 - 180    | 7   | 23        |
| Carbon disulfide                      | <10           |                  | 20.0        | 21.3       |               | ug/L |   | 106  | 50 - 156    | 2   | 20        |
| Carbon tetrachloride                  | <0.50         |                  | 20.0        | 22.4       |               | ug/L |   | 112  | 51 - 167    | 4   | 20        |
| Chlorobenzene                         | <1.0          |                  | 20.0        | 19.5       |               | ug/L |   | 98   | 67 - 141    | 3   | 20        |
| Chloroethane                          | <5.0          |                  | 20.0        | 24.2       |               | ug/L |   | 121  | 46 - 167    | 1   | 20        |
| Chloroform                            | 58            |                  | 20.0        | 81.7       |               | ug/L |   | 118  | 62 - 143    | 2   | 20        |
| Chloromethane                         | <10           |                  | 20.0        | 18.4       |               | ug/L |   | 92   | 33 - 163    | 2   | 20        |
| cis-1,2-Dichloroethene                | <1.0          |                  | 20.0        | 19.1       |               | ug/L |   | 95   | 57 - 152    | 4   | 20        |
| cis-1,3-Dichloropropene               | <0.50         |                  | 20.0        | 20.4       |               | ug/L |   | 102  | 55 - 141    | 1   | 20        |
| Dibromochloromethane                  | 6.6           |                  | 20.0        | 26.4       |               | ug/L |   | 99   | 54 - 155    | 1   | 20        |
| Dibromomethane                        | <1.0          |                  | 20.0        | 19.6       |               | ug/L |   | 98   | 68 - 143    | 4   | 20        |
| Dichlorodifluoromethane               | <5.0          |                  | 20.0        | 25.4       |               | ug/L |   | 127  | 36 - 159    | 0   | 20        |
| Diethyl ether                         | <10           |                  | 20.0        | 19.4       |               | ug/L |   | 97   | 53 - 151    | 0   | 20        |
| Di-isopropyl ether (DIPE)             | <2.0          |                  | 20.0        | 15.7       |               | ug/L |   | 79   | 50 - 157    | 2   | 20        |
| Ethanol                               | <100          |                  | 200         | 185        |               | ug/L |   | 93   | 29 - 180    | 11  | 40        |
| Ethylbenzene                          | <1.0          |                  | 20.0        | 20.1       |               | ug/L |   | 101  | 62 - 145    | 3   | 20        |
| Ethylene Dibromide                    | <1.0          |                  | 20.0        | 19.5       |               | ug/L |   | 98   | 65 - 141    | 2   | 20        |

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# QC Sample Results

Client: City & County of Honolulu  
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-222411-1  
SDG: Site H1 625.1, 8015B\_DRO/\_GRO, 8260B

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 570-286903-A-1 MSD

Matrix: Water

Analysis Batch: 766899

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 |
|-------------------------------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Ethyl-t-butyl ether (ETBE)    | <2.0          |                  | 20.0        | 15.6       |               | ug/L |   | 78   | 49 - 144    | 2   | 20        |
| Isopropylbenzene              | <1.0          |                  | 20.0        | 20.7       |               | ug/L |   | 103  | 64 - 146    | 2   | 20        |
| m,p-Xylene                    | <2.0          |                  | 40.0        | 39.9       |               | ug/L |   | 100  | 61 - 146    | 3   | 20        |
| Methylene Chloride            | <10           |                  | 20.0        | 20.7       |               | ug/L |   | 104  | 59 - 143    | 1   | 20        |
| Methyl-t-Butyl Ether (MTBE)   | <1.0          |                  | 20.0        | 16.9       |               | ug/L |   | 85   | 52 - 145    | 1   | 20        |
| MIBK                          | <10           |                  | 20.0        | 17.9       |               | ug/L |   | 89   | 46 - 144    | 6   | 20        |
| Naphthalene                   | <10           |                  | 20.0        | 16.0       |               | ug/L |   | 80   | 41 - 148    | 1   | 20        |
| n-Butylbenzene                | <1.0          |                  | 20.0        | 21.1       |               | ug/L |   | 106  | 54 - 150    | 2   | 20        |
| N-Propylbenzene               | <1.0          |                  | 20.0        | 21.2       |               | ug/L |   | 106  | 63 - 146    | 2   | 20        |
| o-Xylene                      | <1.0          |                  | 20.0        | 19.9       |               | ug/L |   | 99   | 64 - 144    | 2   | 20        |
| p-Isopropyltoluene            | <1.0          |                  | 20.0        | 19.9       |               | ug/L |   | 100  | 59 - 147    | 1   | 20        |
| sec-Butylbenzene              | <1.0          |                  | 20.0        | 20.7       |               | ug/L |   | 103  | 60 - 147    | 1   | 20        |
| Styrene                       | <1.0          |                  | 20.0        | 20.1       |               | ug/L |   | 100  | 44 - 154    | 1   | 20        |
| tert-Amyl alcohol             | <50           |                  | 100         | 76.3       |               | ug/L |   | 76   | 25 - 164    | 3   | 20        |
| Tert-amyl-methyl ether (TAME) | <2.0          |                  | 20.0        | 17.3       |               | ug/L |   | 86   | 55 - 137    | 0   | 20        |
| tert-Butyl alcohol (TBA)      | <10           |                  | 100         | 94.9       |               | ug/L |   | 95   | 56 - 154    | 4   | 20        |
| tert-Butylbenzene             | <1.0          |                  | 20.0        | 21.1       |               | ug/L |   | 105  | 61 - 149    | 1   | 20        |
| Tetrachloroethene             | <1.0          |                  | 20.0        | 20.3       |               | ug/L |   | 101  | 60 - 151    | 2   | 20        |
| Toluene                       | <1.0          |                  | 20.0        | 20.0       |               | ug/L |   | 100  | 64 - 144    | 0   | 20        |
| trans-1,2-Dichloroethene      | <1.0          |                  | 20.0        | 20.1       |               | ug/L |   | 101  | 56 - 156    | 3   | 20        |
| trans-1,3-Dichloropropene     | <0.50         |                  | 20.0        | 20.3       |               | ug/L |   | 101  | 52 - 143    | 2   | 20        |
| Trichloroethene               | <1.0          |                  | 20.0        | 20.4       |               | ug/L |   | 102  | 41 - 169    | 1   | 20        |
| Trichlorofluoromethane        | <10           |                  | 20.0        | 25.5       |               | ug/L |   | 127  | 54 - 161    | 1   | 20        |
| Vinyl acetate                 | <10           |                  | 20.0        | 20.2       |               | ug/L |   | 101  | 30 - 155    | 10  | 20        |
| Vinyl chloride                | <0.50         |                  | 20.0        | 21.9       |               | ug/L |   | 110  | 49 - 164    | 3   | 20        |

| Surrogate                    | MSD %Recovery | MSD Qualifier | Limits   |
|------------------------------|---------------|---------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 102           |               | 80 - 120 |
| 4-Bromofluorobenzene (Surr)  | 103           |               | 80 - 120 |
| Dibromofluoromethane (Surr)  | 106           |               | 80 - 120 |
| Toluene-d8 (Surr)            | 102           |               | 80 - 120 |

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

Lab Sample ID: MB 570-764228/1-A

Matrix: Water

Analysis Batch: 766469

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 764228

| 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     | 07/05/26 08:38 | 07/09/26 15:07 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 2,4,6-Tribromophenol (Surr) | 56           |              | 33 - 139 | 07/05/26 08:38 | 07/09/26 15:07 | 1       |
| 2-Fluorobiphenyl (Surr)     | 84           |              | 33 - 126 | 07/05/26 08:38 | 07/09/26 15:07 | 1       |
| 2-Fluorophenol (Surr)       | 57           |              | 12 - 120 | 07/05/26 08:38 | 07/09/26 15:07 | 1       |
| Nitrobenzene-d5 (Surr)      | 48           |              | 36 - 120 | 07/05/26 08:38 | 07/09/26 15:07 | 1       |
| Phenol-d6 (Surr)            | 33           |              | 10 - 120 | 07/05/26 08:38 | 07/09/26 15:07 | 1       |
| p-Terphenyl-d14 (Surr)      | 78           |              | 47 - 131 | 07/05/26 08:38 | 07/09/26 15:07 | 1       |

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# QC Sample Results

Client: City & County of Honolulu  
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-222411-1  
SDG: Site H1 625.1, 8015B\_DRO/\_GRO, 8260B

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

Lab Sample ID: MB 570-764228/1-A

Matrix: Water

Analysis Batch: 764714

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 764228

| Analyte                | MB Result | MB Qualifier | RL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|-----------|--------------|------|------|---|----------------|----------------|---------|
| 1-Methylnaphthalene    | <0.20     |              | 0.20 | ug/L |   | 07/05/26 08:38 | 07/06/26 22:52 | 1       |
| 2-Methylnaphthalene    | <0.20     |              | 0.20 | ug/L |   | 07/05/26 08:38 | 07/06/26 22:52 | 1       |
| Acenaphthene           | <0.20     |              | 0.20 | ug/L |   | 07/05/26 08:38 | 07/06/26 22:52 | 1       |
| Acenaphthylene         | <0.20     |              | 0.20 | ug/L |   | 07/05/26 08:38 | 07/06/26 22:52 | 1       |
| Anthracene             | <0.20     |              | 0.20 | ug/L |   | 07/05/26 08:38 | 07/06/26 22:52 | 1       |
| Benzo[a]anthracene     | <0.20     |              | 0.20 | ug/L |   | 07/05/26 08:38 | 07/06/26 22:52 | 1       |
| Benzo[a]pyrene         | <0.20     |              | 0.20 | ug/L |   | 07/05/26 08:38 | 07/06/26 22:52 | 1       |
| Benzo[b]fluoranthene   | <0.20     |              | 0.20 | ug/L |   | 07/05/26 08:38 | 07/06/26 22:52 | 1       |
| Benzo[g,h,i]perylene   | <0.20     |              | 0.20 | ug/L |   | 07/05/26 08:38 | 07/06/26 22:52 | 1       |
| Benzo[k]fluoranthene   | <0.20     |              | 0.20 | ug/L |   | 07/05/26 08:38 | 07/06/26 22:52 | 1       |
| Chrysene               | <0.20     |              | 0.20 | ug/L |   | 07/05/26 08:38 | 07/06/26 22:52 | 1       |
| Dibenz(a,h)anthracene  | <0.20     |              | 0.20 | ug/L |   | 07/05/26 08:38 | 07/06/26 22:52 | 1       |
| Fluoranthene           | <0.20     |              | 0.20 | ug/L |   | 07/05/26 08:38 | 07/06/26 22:52 | 1       |
| Fluorene               | <0.20     |              | 0.20 | ug/L |   | 07/05/26 08:38 | 07/06/26 22:52 | 1       |
| Indeno[1,2,3-cd]pyrene | <0.20     |              | 0.20 | ug/L |   | 07/05/26 08:38 | 07/06/26 22:52 | 1       |
| Naphthalene            | <0.20     |              | 0.20 | ug/L |   | 07/05/26 08:38 | 07/06/26 22:52 | 1       |
| Phenanthrene           | <0.20     |              | 0.20 | ug/L |   | 07/05/26 08:38 | 07/06/26 22:52 | 1       |
| Pyrene                 | <0.20     |              | 0.20 | ug/L |   | 07/05/26 08:38 | 07/06/26 22:52 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 2,4,6-Tribromophenol (Surr) | 84           |              | 28 - 127 | 07/05/26 08:38 | 07/06/26 22:52 | 1       |
| 2-Fluorobiphenyl (Surr)     | 82           |              | 31 - 120 | 07/05/26 08:38 | 07/06/26 22:52 | 1       |
| 2-Fluorophenol (Surr)       | 61           |              | 17 - 120 | 07/05/26 08:38 | 07/06/26 22:52 | 1       |
| Nitrobenzene-d5 (Surr)      | 83           |              | 27 - 120 | 07/05/26 08:38 | 07/06/26 22:52 | 1       |
| Phenol-d6 (Surr)            | 39           |              | 10 - 120 | 07/05/26 08:38 | 07/06/26 22:52 | 1       |
| p-Terphenyl-d14 (Surr)      | 94           |              | 45 - 120 | 07/05/26 08:38 | 07/06/26 22:52 | 1       |

Lab Sample ID: LCS 570-764228/2-A

Matrix: Water

Analysis Batch: 764714

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 764228

| Analyte                | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|------------------------|-------------|------------|---------------|------|---|------|-------------|
| 1-Methylnaphthalene    | 20.0        | 15.7       |               | ug/L |   | 79   | 47 - 120    |
| 2-Methylnaphthalene    | 20.0        | 14.5       |               | ug/L |   | 72   | 43 - 120    |
| Acenaphthene           | 20.0        | 16.9       |               | ug/L |   | 85   | 60 - 132    |
| Acenaphthylene         | 20.0        | 17.1       |               | ug/L |   | 85   | 54 - 126    |
| Anthracene             | 20.0        | 17.3       |               | ug/L |   | 86   | 43 - 120    |
| Benzo[a]anthracene     | 20.0        | 18.0       |               | ug/L |   | 90   | 42 - 133    |
| Benzo[a]pyrene         | 20.0        | 15.3       |               | ug/L |   | 77   | 32 - 148    |
| Benzo[b]fluoranthene   | 20.0        | 15.6       |               | ug/L |   | 78   | 42 - 140    |
| Benzo[g,h,i]perylene   | 20.0        | 16.3       |               | ug/L |   | 81   | 1 - 195     |
| Benzo[k]fluoranthene   | 20.0        | 15.7       |               | ug/L |   | 79   | 25 - 146    |
| Chrysene               | 20.0        | 17.6       |               | ug/L |   | 88   | 44 - 140    |
| Dibenz(a,h)anthracene  | 20.0        | 17.8       |               | ug/L |   | 89   | 1 - 200     |
| Fluoranthene           | 20.0        | 16.7       |               | ug/L |   | 84   | 43 - 121    |
| Fluorene               | 20.0        | 17.2       |               | ug/L |   | 86   | 70 - 120    |
| Indeno[1,2,3-cd]pyrene | 20.0        | 17.2       |               | ug/L |   | 86   | 1 - 151     |
| Naphthalene            | 20.0        | 13.5       |               | ug/L |   | 67   | 36 - 120    |

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# QC Sample Results

Client: City & County of Honolulu  
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-222411-1  
SDG: Site H1 625.1, 8015B\_DRO/\_GRO, 8260B

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

Lab Sample ID: LCS 570-764228/2-A

Matrix: Water

Analysis Batch: 764714

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 764228

| Analyte      | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|--------------|-------------|------------|---------------|------|---|------|-------------|
| Phenanthrene | 20.0        | 16.7       |               | ug/L |   | 83   | 65 - 120    |
| Pyrene       | 20.0        | 20.7       |               | ug/L |   | 104  | 70 - 120    |

| Surrogate                   | LCS %Recovery | LCS Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 2,4,6-Tribromophenol (Surr) | 88            |               | 28 - 127 |
| 2-Fluorobiphenyl (Surr)     | 82            |               | 31 - 120 |
| 2-Fluorophenol (Surr)       | 72            |               | 17 - 120 |
| Nitrobenzene-d5 (Surr)      | 73            |               | 27 - 120 |
| Phenol-d6 (Surr)            | 50            |               | 10 - 120 |
| p-Terphenyl-d14 (Surr)      | 106           |               | 45 - 120 |

Lab Sample ID: LCSD 570-764228/3-A

Matrix: Water

Analysis Batch: 764714

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 764228

| Analyte                | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|------------------------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| 1-Methylnaphthalene    | 20.0        | 15.2        |                | ug/L |   | 76   | 47 - 120    | 4   | 20        |
| 2-Methylnaphthalene    | 20.0        | 14.0        |                | ug/L |   | 70   | 43 - 120    | 4   | 20        |
| Acenaphthene           | 20.0        | 15.9        |                | ug/L |   | 80   | 60 - 132    | 6   | 29        |
| Acenaphthylene         | 20.0        | 16.1        |                | ug/L |   | 81   | 54 - 126    | 6   | 45        |
| Anthracene             | 20.0        | 16.1        |                | ug/L |   | 81   | 43 - 120    | 7   | 40        |
| Benzo[a]anthracene     | 20.0        | 16.8        |                | ug/L |   | 84   | 42 - 133    | 6   | 32        |
| Benzo[a]pyrene         | 20.0        | 14.8        |                | ug/L |   | 74   | 32 - 148    | 4   | 43        |
| Benzo[b]fluoranthene   | 20.0        | 14.9        |                | ug/L |   | 75   | 42 - 140    | 5   | 43        |
| Benzo[g,h,i]perylene   | 20.0        | 15.3        |                | ug/L |   | 77   | 1 - 195     | 6   | 61        |
| Benzo[k]fluoranthene   | 20.0        | 14.9        |                | ug/L |   | 75   | 25 - 146    | 5   | 38        |
| Chrysene               | 20.0        | 16.3        |                | ug/L |   | 81   | 44 - 140    | 8   | 53        |
| Dibenz(a,h)anthracene  | 20.0        | 16.5        |                | ug/L |   | 82   | 1 - 200     | 8   | 75        |
| Fluoranthene           | 20.0        | 15.4        |                | ug/L |   | 77   | 43 - 121    | 8   | 40        |
| Fluorene               | 20.0        | 16.3        |                | ug/L |   | 81   | 70 - 120    | 6   | 23        |
| Indeno[1,2,3-cd]pyrene | 20.0        | 15.8        |                | ug/L |   | 79   | 1 - 151     | 8   | 60        |
| Naphthalene            | 20.0        | 13.1        |                | ug/L |   | 66   | 36 - 120    | 2   | 39        |
| Phenanthrene           | 20.0        | 15.6        |                | ug/L |   | 78   | 65 - 120    | 7   | 24        |
| Pyrene                 | 20.0        | 19.4        |                | ug/L |   | 97   | 70 - 120    | 6   | 30        |

| Surrogate                   | LCSD %Recovery | LCSD Qualifier | Limits   |
|-----------------------------|----------------|----------------|----------|
| 2,4,6-Tribromophenol (Surr) | 79             |                | 28 - 127 |
| 2-Fluorobiphenyl (Surr)     | 78             |                | 31 - 120 |
| 2-Fluorophenol (Surr)       | 66             |                | 17 - 120 |
| Nitrobenzene-d5 (Surr)      | 70             |                | 27 - 120 |
| Phenol-d6 (Surr)            | 46             |                | 10 - 120 |
| p-Terphenyl-d14 (Surr)      | 100            |                | 45 - 120 |

# QC Sample Results

Client: City & County of Honolulu  
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-222411-1  
SDG: Site H1 625.1, 8015B\_DRO/\_GRO, 8260B

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

Lab Sample ID: 380-222429-A-1-A MS

Matrix: Water

Analysis Batch: 765058

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 764228

| Analyte                | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|------------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| 1-Methylnaphthalene    | <0.19         | F1 F2            | 19.5        | 0.788     | F1           | ug/L |   | 4    | 36 - 120    |
| 2-Methylnaphthalene    | <0.19         | F1 F2            | 19.5        | 0.740     | F1           | ug/L |   | 4    | 32 - 124    |
| Acenaphthene           | <0.19         | F1 F2            | 19.5        | 0.905     | F1           | ug/L |   | 5    | 47 - 145    |
| Acenaphthylene         | <0.19         | F1 F2            | 19.5        | 0.786     | F1           | ug/L |   | 4    | 33 - 145    |
| Anthracene             | <0.19         | F1 F2            | 19.5        | 1.28      | F1           | ug/L |   | 7    | 27 - 133    |
| Benzo[a]anthracene     | <0.19         | F1 F2            | 19.5        | 1.40      | F1           | ug/L |   | 7    | 33 - 143    |
| Benzo[a]pyrene         | <0.19         | F1 F2            | 19.5        | 1.49      | F1           | ug/L |   | 8    | 17 - 163    |
| Benzo[b]fluoranthene   | <0.19         | F1 F2            | 19.5        | 1.36      | F1           | ug/L |   | 7    | 24 - 159    |
| Benzo[g,h,i]perylene   | <0.19         | F2               | 19.5        | 1.23      |              | ug/L |   | 6    | 1 - 219     |
| Benzo[k]fluoranthene   | <0.19         | F1 F2            | 19.5        | 1.46      | F1           | ug/L |   | 7    | 11 - 162    |
| Chrysene               | <0.19         | F1 F2            | 19.5        | 1.37      | F1           | ug/L |   | 7    | 17 - 168    |
| Dibenz(a,h)anthracene  | <0.19         | F2               | 19.5        | 1.37      |              | ug/L |   | 7    | 1 - 227     |
| Fluoranthene           | <0.19         | F1 F2            | 19.5        | 1.41      | F1           | ug/L |   | 7    | 26 - 137    |
| Fluorene               | <0.19         | F1 F2            | 19.5        | 1.09      | F1           | ug/L |   | 6    | 59 - 121    |
| Indeno[1,2,3-cd]pyrene | <0.19         | F2               | 19.5        | 1.33      |              | ug/L |   | 7    | 1 - 171     |
| Naphthalene            | <0.19         | F1 F2            | 19.5        | 0.601     | F1           | ug/L |   | 3    | 21 - 133    |
| Phenanthrene           | <0.19         | F1 F2            | 19.5        | 1.18      | F1           | ug/L |   | 6    | 54 - 120    |
| Pyrene                 | <0.19         | F1 F2            | 19.5        | 1.39      | F1           | ug/L |   | 7    | 52 - 120    |

| Surrogate                   | MS %Recovery | MS Qualifier | MS Limits |
|-----------------------------|--------------|--------------|-----------|
| 2,4,6-Tribromophenol (Surr) | 2            | S1-          | 28 - 127  |
| 2-Fluorobiphenyl (Surr)     | 5            | S1-          | 31 - 120  |
| 2-Fluorophenol (Surr)       | 1            | S1-          | 17 - 120  |
| Nitrobenzene-d5 (Surr)      | 3            | S1-          | 27 - 120  |
| Phenol-d6 (Surr)            | 0.9          | S1-          | 10 - 120  |
| p-Terphenyl-d14 (Surr)      | 7            | S1-          | 45 - 120  |

Lab Sample ID: 380-222429-A-1-B MSD

Matrix: Water

Analysis Batch: 765058

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 764228

| Analyte                | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|------------------------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| 1-Methylnaphthalene    | <0.19         | F1 F2            | 19.2        | 13.8       | F2            | ug/L |   | 72   | 36 - 120    | 178 | 30        |
| 2-Methylnaphthalene    | <0.19         | F1 F2            | 19.2        | 12.8       | F2            | ug/L |   | 67   | 32 - 124    | 178 | 30        |
| Acenaphthene           | <0.19         | F1 F2            | 19.2        | 15.7       | F2            | ug/L |   | 82   | 47 - 145    | 178 | 48        |
| Acenaphthylene         | <0.19         | F1 F2            | 19.2        | 15.6       | F2            | ug/L |   | 81   | 33 - 145    | 181 | 74        |
| Anthracene             | <0.19         | F1 F2            | 19.2        | 15.4       | F2            | ug/L |   | 80   | 27 - 133    | 169 | 66        |
| Benzo[a]anthracene     | <0.19         | F1 F2            | 19.2        | 16.5       | F2            | ug/L |   | 86   | 33 - 143    | 169 | 53        |
| Benzo[a]pyrene         | <0.19         | F1 F2            | 19.2        | 18.3       | F2            | ug/L |   | 95   | 17 - 163    | 170 | 72        |
| Benzo[b]fluoranthene   | <0.19         | F1 F2            | 19.2        | 17.2       | F2            | ug/L |   | 89   | 24 - 159    | 171 | 71        |
| Benzo[g,h,i]perylene   | <0.19         | F2               | 19.2        | 14.7       | F2            | ug/L |   | 77   | 1 - 219     | 169 | 97        |
| Benzo[k]fluoranthene   | <0.19         | F1 F2            | 19.2        | 16.2       | F2            | ug/L |   | 84   | 11 - 162    | 167 | 63        |
| Chrysene               | <0.19         | F1 F2            | 19.2        | 16.2       | F2            | ug/L |   | 84   | 17 - 168    | 169 | 87        |
| Dibenz(a,h)anthracene  | <0.19         | F2               | 19.2        | 15.9       | F2            | ug/L |   | 83   | 1 - 227     | 168 | 126       |
| Fluoranthene           | <0.19         | F1 F2            | 19.2        | 16.0       | F2            | ug/L |   | 83   | 26 - 137    | 168 | 66        |
| Fluorene               | <0.19         | F1 F2            | 19.2        | 16.7       | F2            | ug/L |   | 87   | 59 - 121    | 176 | 38        |
| Indeno[1,2,3-cd]pyrene | <0.19         | F2               | 19.2        | 15.6       | F2            | ug/L |   | 81   | 1 - 171     | 169 | 99        |
| Naphthalene            | <0.19         | F1 F2            | 19.2        | 12.7       | F2            | ug/L |   | 66   | 21 - 133    | 182 | 65        |

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# QC Sample Results

Client: City & County of Honolulu  
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-222411-1  
SDG: Site H1 625.1, 8015B\_DRO/\_GRO, 8260B

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

Lab Sample ID: 380-222429-A-1-B MSD

Matrix: Water

Analysis Batch: 765058

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 764228

| Analyte      | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Phenanthrene | <0.19         | F1 F2            | 19.2        | 15.7       | F2            | ug/L |   | 82   | 54 - 120    | 172 | 39        |
| Pyrene       | <0.19         | F1 F2            | 19.2        | 16.8       | F2            | ug/L |   | 87   | 52 - 120    | 169 | 49        |

| Surrogate                   | MSD %Recovery | MSD Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 2,4,6-Tribromophenol (Surr) | 96            |               | 28 - 127 |
| 2-Fluorobiphenyl (Surr)     | 80            |               | 31 - 120 |
| 2-Fluorophenol (Surr)       | 67            |               | 17 - 120 |
| Nitrobenzene-d5 (Surr)      | 78            |               | 27 - 120 |
| Phenol-d6 (Surr)            | 41            |               | 10 - 120 |
| p-Terphenyl-d14 (Surr)      | 83            |               | 45 - 120 |

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

Lab Sample ID: MB 570-764480/6

Matrix: Water

Analysis Batch: 764480

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte      | MB Result | MB Qualifier | RL | Unit | D | Prepared | Analyzed       | Dil Fac |
|--------------|-----------|--------------|----|------|---|----------|----------------|---------|
| GRO (C6-C10) | <10       |              | 10 | ug/L |   |          | 07/06/26 11:44 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 100          |              | 38 - 134 |          | 07/06/26 11:44 | 1       |

Lab Sample ID: LCS 570-764480/3

Matrix: Water

Analysis Batch: 764480

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                          | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------------------------------|-------------|------------|---------------|------|---|------|-------------|
| Gasoline Range Organics (C4-C13) | 400         | 387        |               | ug/L |   | 97   | 78 - 120    |

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

Lab Sample ID: LCSD 570-764480/4

Matrix: Water

Analysis Batch: 764480

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

| Analyte                          | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------------------------------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| Gasoline Range Organics (C4-C13) | 400         | 371         |                | ug/L |   | 93   | 78 - 120    | 4   | 10        |

| Surrogate                   | LCSD %Recovery | LCSD Qualifier | Limits   |
|-----------------------------|----------------|----------------|----------|
| 4-Bromofluorobenzene (Surr) | 101            |                | 38 - 134 |

# QC Sample Results

Client: City & County of Honolulu  
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-222411-1  
SDG: Site H1 625.1, 8015B\_DRO/\_GRO, 8260B

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

Lab Sample ID: MRL 570-764480/5

Matrix: Water

Analysis Batch: 764480

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                          |               |               | Spike Added | MRL Result | MRL Qualifier | Unit | D | %Rec | %Rec Limits |  |  |
|----------------------------------|---------------|---------------|-------------|------------|---------------|------|---|------|-------------|--|--|
| Gasoline Range Organics (C4-C13) |               |               | 10.0        | 13.0       |               | ug/L |   | 130  | 50 - 150    |  |  |
| Surrogate                        | MRL %Recovery | MRL Qualifier | Limits      |            |               |      |   |      |             |  |  |
| 4-Bromofluorobenzene (Surr)      | 100           |               | 38 - 134    |            |               |      |   |      |             |  |  |

Lab Sample ID: 380-221326-A-1 MS

Matrix: Water

Analysis Batch: 764480

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         | 369       |              | ug/L |   | 92   | 68 - 122    |  |  |
| Surrogate                        | MS %Recovery  | MS Qualifier     | Limits      |           |              |      |   |      |             |  |  |
| 4-Bromofluorobenzene (Surr)      | 104           |                  | 38 - 134    |           |              |      |   |      |             |  |  |

Lab Sample ID: 380-221326-A-1 MSD

Matrix: Water

Analysis Batch: 764480

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         | 380        |               | ug/L |   | 95   | 68 - 122    | 3   | 18        |
| Surrogate                        | MSD %Recovery | MSD Qualifier    | Limits      |            |               |      |   |      |             |     |           |
| 4-Bromofluorobenzene (Surr)      | 102           |                  | 38 - 134    |            |               |      |   |      |             |     |           |

## QC Association Summary

Client: City & County of Honolulu  
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-222411-1  
SDG: Site H1 625.1, 8015B\_DRO/\_GRO, 8260B

### GC/MS VOA

#### Analysis Batch: 766899

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 380-222411-1        | BWS2253-H1-AQ          | Total/NA  | Water  | 8260B  |            |
| 380-222411-2        | BWS2253-H1-TB          | Total/NA  | Water  | 8260B  |            |
| MB 570-766899/6     | Method Blank           | Total/NA  | Water  | 8260B  |            |
| LCS 570-766899/1003 | Lab Control Sample     | Total/NA  | Water  | 8260B  |            |
| LCSD 570-766899/4   | Lab Control Sample Dup | Total/NA  | Water  | 8260B  |            |
| 570-286903-A-1 MS   | Matrix Spike           | Total/NA  | Water  | 8260B  |            |
| 570-286903-A-1 MSD  | Matrix Spike Duplicate | Total/NA  | Water  | 8260B  |            |

### GC/MS Semi VOA

#### Prep Batch: 764228

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|--------|------------|
| 380-222411-1         | BWS2253-H1-AQ          | Total/NA  | Water  | 625.1  |            |
| MB 570-764228/1-A    | Method Blank           | Total/NA  | Water  | 625.1  |            |
| LCS 570-764228/2-A   | Lab Control Sample     | Total/NA  | Water  | 625.1  |            |
| LCSD 570-764228/3-A  | Lab Control Sample Dup | Total/NA  | Water  | 625.1  |            |
| 380-222429-A-1-A MS  | Matrix Spike           | Total/NA  | Water  | 625.1  |            |
| 380-222429-A-1-B MSD | Matrix Spike Duplicate | Total/NA  | Water  | 625.1  |            |

#### Analysis Batch: 764714

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method    | Prep Batch |
|---------------------|------------------------|-----------|--------|-----------|------------|
| MB 570-764228/1-A   | Method Blank           | Total/NA  | Water  | 625.1 SIM | 764228     |
| LCS 570-764228/2-A  | Lab Control Sample     | Total/NA  | Water  | 625.1 SIM | 764228     |
| LCSD 570-764228/3-A | Lab Control Sample Dup | Total/NA  | Water  | 625.1 SIM | 764228     |

#### Analysis Batch: 765058

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method    | Prep Batch |
|----------------------|------------------------|-----------|--------|-----------|------------|
| 380-222429-A-1-A MS  | Matrix Spike           | Total/NA  | Water  | 625.1 SIM | 764228     |
| 380-222429-A-1-B MSD | Matrix Spike Duplicate | Total/NA  | Water  | 625.1 SIM | 764228     |

#### Analysis Batch: 766469

| Lab Sample ID     | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------|-----------|--------|--------|------------|
| 380-222411-1      | BWS2253-H1-AQ    | Total/NA  | Water  | 625.1  | 764228     |
| MB 570-764228/1-A | Method Blank     | Total/NA  | Water  | 625.1  | 764228     |

#### Analysis Batch: 768151

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method    | Prep Batch |
|---------------|------------------|-----------|--------|-----------|------------|
| 380-222411-1  | BWS2253-H1-AQ    | Total/NA  | Water  | 625.1 SIM | 764228     |

### GC VOA

#### Analysis Batch: 764480

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method       | Prep Batch |
|--------------------|------------------------|-----------|--------|--------------|------------|
| 380-222411-1       | BWS2253-H1-AQ          | Total/NA  | Water  | 8015B GRO LL |            |
| 380-222411-2       | BWS2253-H1-TB          | Total/NA  | Water  | 8015B GRO LL |            |
| MB 570-764480/6    | Method Blank           | Total/NA  | Water  | 8015B GRO LL |            |
| LCS 570-764480/3   | Lab Control Sample     | Total/NA  | Water  | 8015B GRO LL |            |
| LCSD 570-764480/4  | Lab Control Sample Dup | Total/NA  | Water  | 8015B GRO LL |            |
| MRL 570-764480/5   | Lab Control Sample     | Total/NA  | Water  | 8015B GRO LL |            |
| 380-221326-A-1 MS  | Matrix Spike           | Total/NA  | Water  | 8015B GRO LL |            |
| 380-221326-A-1 MSD | Matrix Spike Duplicate | Total/NA  | Water  | 8015B GRO LL |            |

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# Lab Chronicle

Client: City & County of Honolulu  
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-222411-1  
SDG: Site H1 625.1, 8015B\_DRO/\_GRO, 8260B

**Client Sample ID: BWS2253-H1-AQ**

**Lab Sample ID: 380-222411-1**

**Date Collected: 06/30/26 11:30**

**Matrix: Water**

**Date Received: 07/01/26 09:40**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab       | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|-----------|----------------------|
| Total/NA  | Analysis   | 8260B        |     | 1               | 766899       | N5PD    | EET CAL 4 | 07/10/26 11:46       |
| Total/NA  | Prep       | 625.1        |     |                 | 764228       | KLZQ    | EET CAL 4 | 07/06/26 08:08       |
| Total/NA  | Analysis   | 625.1        |     | 1               | 766469       | UX77    | EET CAL 4 | 07/09/26 23:11       |
| Total/NA  | Prep       | 625.1        |     |                 | 764228       | KLZQ    | EET CAL 4 | 07/06/26 08:08       |
| Total/NA  | Analysis   | 625.1 SIM    |     | 1               | 768151       | PQS1    | EET CAL 4 | 07/13/26 15:05       |
| Total/NA  | Analysis   | 8015B GRO LL |     | 1               | 764480       | A9VE    | EET CAL 4 | 07/06/26 20:26       |

**Client Sample ID: BWS2253-H1-TB**

**Lab Sample ID: 380-222411-2**

**Date Collected: 06/30/26 11:30**

**Matrix: Water**

**Date Received: 07/01/26 09:40**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab       | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|-----------|----------------------|
| Total/NA  | Analysis   | 8260B        |     | 1               | 766899       | N5PD    | EET CAL 4 | 07/10/26 08:48       |
| Total/NA  | Analysis   | 8015B GRO LL |     | 1               | 764480       | A9VE    | EET CAL 4 | 07/06/26 18:07       |

## Laboratory References:

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: INTERA - Red-Hill-Incident

Job ID: 380-222411-1  
SDG: Site H1 625.1, 8015B\_DRO/\_GRO, 8260B

### 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                | 03-02-27        |
| Arizona      | State                                   | AZ0830                | 11-17-26        |
| California   | Los Angeles County Sanitation Districts | 9257304               | 07-31-26        |
| California   | SCAQMD LAP                              | 17LA0919              | 11-30-26        |
| California   | State                                   | 3082                  | 07-15-26        |
| Kansas       | NELAP                                   | E-10420               | 07-31-26        |
| Nevada       | State                                   | CA00111               | 07-31-26        |
| Oregon       | NELAP                                   | 4175                  | 02-02-27        |
| Texas        | NELAP                                   | T104704499            | 07-31-27        |
| USDA         | US Federal Programs                     | 525-23-159-97150      | 09-30-26        |
| Utah         | NELAP                                   | CA00111               | 02-28-27        |
| Washington   | State                                   | C916                  | 10-12-26        |



## Method Summary

Client: City & County of Honolulu  
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-222411-1  
SDG: Site H1 625.1, 8015B\_DRO/\_GRO, 8260B

| Method       | Method Description                         | Protocol  | Laboratory |
|--------------|--------------------------------------------|-----------|------------|
| 8260B        | Volatile Organic Compounds (GC/MS)         | SW846     | EET CAL 4  |
| 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  |
| 5030C        | Purge and Trap                             | SW846     | EET CAL 4  |
| 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:

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: INTERA - Red-Hill-Incident

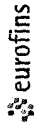
Job ID: 380-222411-1  
SDG: Site H1 625.1, 8015B\_DRO/\_GRO, 8260B

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       | Sample Origin |
|---------------|------------------|--------|----------------|----------------|---------------|
| 380-222411-1  | BWS2253-H1-AQ    | Water  | 06/30/26 11:30 | 07/01/26 09:40 | Hawaii        |
| 380-222411-2  | BWS2253-H1-TB    | Water  | 06/30/26 11:30 | 07/01/26 09:40 | Hawaii        |

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

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

## Chain of Custody Record



Environment Testing



380-222411 COC

|                                                                                         |         |                                                                                                                                                                                                                        |             |                                                                                     |                                                                        |                                                                                                             |                            |
|-----------------------------------------------------------------------------------------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|----------------------------|
| <b>Client Information</b>                                                               |         | Lab PM: Lopez, Maria                                                                                                                                                                                                   |             | Carrier Tracking No(s):                                                             |                                                                        | COC No:                                                                                                     |                            |
| Client Contact: Mr. Erwin Kawata                                                        |         | Phone: 856-205-0730                                                                                                                                                                                                    |             | E-Mail: Maria.Lopez@et.eurofins.com                                                 |                                                                        | Page: Page 1 of 1                                                                                           |                            |
| Company: City & County of Honolulu                                                      |         | Address: 630 South Beretania Street                                                                                                                                                                                    |             | City: Honolulu                                                                      |                                                                        | State of Origin: Hawaii                                                                                     |                            |
| State Zip: HI 96843                                                                     |         | Phone: 808-748-5066                                                                                                                                                                                                    |             | Email: ekawata@hbws.org                                                             |                                                                        | Job #:                                                                                                      |                            |
| Project Name: INTERA - Red-Hill-Incident                                                |         | Project #: 38000861                                                                                                                                                                                                    |             | SSOW#:                                                                              |                                                                        | Analysis Requested                                                                                          |                            |
| Due Date Requested:                                                                     |         | TAT Requested (days):                                                                                                                                                                                                  |             | Standard                                                                            |                                                                        | Preservation Codes:<br>A - HCL<br>N - None                                                                  |                            |
| Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |         | PO #:                                                                                                                                                                                                                  |             | WO #:                                                                               |                                                                        | Other:                                                                                                      |                            |
| Sample Identification                                                                   |         | Sample Date                                                                                                                                                                                                            | Sample Time | Sample Type (C=Comp, G=grab)                                                        | Matrix (W=water, S=solid, O=oil, BT=Tissue, AA=Air, DW=Drinking Water) | Field Filtered Sample (Yes or No)                                                                           | Perform MS/MSD (Yes or No) |
| BWS253-H1-AQ                                                                            | 6/30/26 | 11:30                                                                                                                                                                                                                  | G           | Water                                                                               | Water                                                                  | N                                                                                                           | N                          |
| BWS253-H1-TB                                                                            | 6/30/26 | 11:30                                                                                                                                                                                                                  | G           | Water                                                                               | Water                                                                  | N                                                                                                           | N                          |
| Possible Hazard Identification                                                          |         | <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological |             | Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) |                                                                        | Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months |                            |
| Deliverable Requested: I II III IV Other (specify)                                      |         | Special Instructions/QC Requirements                                                                                                                                                                                   |             | Method of Shipment: 49736                                                           |                                                                        | Date/Time: 6/30/26 9:40                                                                                     |                            |
| Empty Kit Relinquished by                                                               |         | Date/Time: 6/30/26 14:00                                                                                                                                                                                               |             | Received by: INTERA                                                                 |                                                                        | Company: INTERA                                                                                             |                            |
| Relinquished by                                                                         |         | Date/Time:                                                                                                                                                                                                             |             | Received by:                                                                        |                                                                        | Company:                                                                                                    |                            |
| Relinquished by                                                                         |         | Date/Time:                                                                                                                                                                                                             |             | Received by:                                                                        |                                                                        | Company:                                                                                                    |                            |
| Cooler Temperature(s) °C and Other Remarks: 6/30/26 9:40 = 4.9                          |         | Custody Seal No                                                                                                                                                                                                        |             | Cooler Temperature(s) °C and Other Remarks: 6/30/26 9:40 = 4.9                      |                                                                        | Cooler Temperature(s) °C and Other Remarks: 6/30/26 9:40 = 4.9                                              |                            |



380-222411 COC

[illegible]

[illegible]



[illegible]

## Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-222411-1

SDG Number: Site H1 625.1, 8015B\_DRO/\_GRO, 8260B

**Login Number: 222411**

**List Number: 1**

**Creator: Tran, Kristine**

**List Source: Eurofins Pomona**

| Question                                                                         | Answer | Comment |
|----------------------------------------------------------------------------------|--------|---------|
| The coolers custody seal, if present, is intact.                                 | N/A    |         |
| Sample custody seals, if present, are intact.                                    | N/A    |         |
| Samples were received on ice.                                                    | True   |         |
| Cooler(s) Temperature is acceptable.                                             | True   |         |
| Cooler(s) Temperature is recorded.                                               | True   |         |
| COC is present.                                                                  | True   |         |
| COC is filled out in ink and is legible.                                         | True   |         |
| COC is filled out with all pertinent information.                                | True   |         |
| There are no discrepancies between the containers received and the COC.          | True   |         |
| Samples are received within Holding Time (excluding tests with immediate HTs)    | True   |         |
| Sample containers have legible labels.                                           | True   |         |
| Containers are not broken or leaking.                                            | True   |         |
| Sample collection date/times are provided.                                       | True   |         |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True   |         |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").  | True   |         |
| CIO4 headspace requirement met (>50% for CA, >30% for other states).             | 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: 380-222411-1

SDG Number: Site H1 625.1, 8015B\_DRO/\_GRO, 8260B

**Login Number: 222411**

**List Number: 2**

**Creator: Khana, Piyush**

**List Source: Eurofins Calscience**

**List Creation: 07/02/26 11:22 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.                                | True   |                                    |
| Sample custody seals, if present, are intact.                                    | True   |                                    |
| 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   | fgf5                               |
| Multiphasic samples are not present.                                             | True   |                                    |
| Samples do not require splitting or compositing.                                 | True   |                                    |
| Residual Chlorine Checked.                                                       | N/A    |                                    |