

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Erwin Kawata
City & County of Honolulu
630 South Beretania Street
Public Service Bldg. Room 308
Honolulu, Hawaii 96843

Generated 12/8/2022 12:09:01 PM

JOB DESCRIPTION

RED-HILL
RUSH Weekly Red Hill

JOB NUMBER

380-26568-1

Eurofins Eaton Monrovia

Job Notes

Laboratory certifies that the test results meet all TNI 2016 and ISO/IEC 17025:2017 requirements unless noted under the individual analysis.

Following the cover page are State Certification List, ISO 17025 Accredited Method List, Acknowledgement of Samples Received, Comments, Hits Report, Data Report, QC Summary, QC Report and Regulatory Forms, as applicable.

Test results relate only to the sample(s) tested.

Test results apply to the sample(s) as received, unless otherwise noted in the comments report (ISO/IEC 17025:2017).

This report shall not be reproduced except in full, without the written approval of the laboratory.

This report includes ISO/IEC 17025 and non-ISO 17025 accredited methods.

Compliance Statement

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

Authorization



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Authorized for release by
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Definitions/Glossary

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

Job ID: 380-26568-1

Qualifiers

GC/MS Semi VOA

| Qualifier | Qualifier Description |
|-----------|--|
| *1 | LCS/LCSD RPD exceeds control limits. |
| *3 | ISTD response or retention time outside acceptable limits. |
| ^3+ | Reporting Limit Check Standard is outside acceptance limits, high biased |
| B | Analyte was found in the associated method blank. |
| F1 | MS and/or MSD recovery exceeds control limits. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| S1+ | Surrogate recovery exceeds control limits, high 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. |

Subcontract

| Qualifier | Qualifier Description |
|-----------|--------------------------------|
| U | This analyte was not detected. |

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/Site: RED-HILL

Job ID: 380-26568-1

Job ID: 380-26568-1

Laboratory: Eurofins Eaton Monrovia

Narrative

Job Narrative 380-26568-1

Comments

No additional comments.

Receipt

The samples were received on 11/1/2022 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.2° C and 5.1° C.

GC/MS Semi VOA

Method 525.2: Internal standard responses were outside of acceptance limits for the following samples: AIEA GULCH WELLS PUMP 1 (380-26568-1), AIEA GULCH WELLS PUMP 2 (380-26568-3) and (380-26568-B-3-A DU). The sample(s) shows evidence of matrix interference. Surrogates (2-Nitro-m-xylene and Triphenylphosphate) recoveries are above acceptance limits. Sample 380-26568-3 is the parent sample and matrix interferences are confirmed. There is not extra container for re-extraction. Data is flagged and reported as suspected.

Method 525.2: Di(2-ethylhexyl)adipate was detected above the reporting limit (RL) in the method blank associated with preparat batch 380-23750 and analytical batch 380-23898 as well as in the following samples: AIEA GULCH WELLS PUMP 1 (380-26568-1), (MB 380-23750/1-A), (380-26984-A-1-A) and (380-26984-A-3-A). All affected samples re-extracted and/or re-analyzed outside of holding time. Both sets of data have been reported. Samples affected have no additional backup for re-extraction and have hits for Di(2-ethylhexyl)adipate.

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

Subcontract non-Sister

See attached subcontract report.

Organic Prep

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

Subcontract Work

Methods 8015 Gas (Purgeable) LL (EAL), 8015 LL DRO/MRO/JP5/JP8: These methods were subcontracted to EMAX Laboratories Inc. The subcontract laboratory certifications are different from that of the facility issuing the final report.

Method 625 PAH Physis LL (EAL) + TICs: This method was subcontracted to Physis Environmental Laboratories. The subcontract laboratory certification is different from that of the facility issuing the final report.

Detection Summary

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

Job ID: 380-26568-1

Client Sample ID: AIEA GULCH WELLS PUMP 1

Lab Sample ID: 380-26568-1

No Detections.

Client Sample ID: AIEA WELLS PUMPS 1&2 (260)

Lab Sample ID: 380-26568-2

No Detections.

Client Sample ID: AIEA GULCH WELLS PUMP 2

Lab Sample ID: 380-26568-3

No Detections.

Client Sample ID: TB AIEA GULCH WELLS PUMP1

Lab Sample ID: 380-26568-4

No Detections.

Client Sample ID: TB AIEA GULCH WELLS PUMP2

Lab Sample ID: 380-26568-5

No Detections.

Client Sample ID: TB AIEA WELLS PUMP 1&2 (260)

Lab Sample ID: 380-26568-6

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Eaton Monrovia



Client Sample Results

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

Job ID: 380-26568-1

Client Sample ID: AIEA GULCH WELLS PUMP 1

Lab Sample ID: 380-26568-1

Date Collected: 10/31/22 10:24

Matrix: Drinking Water

Date Received: 11/01/22 10:00

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------------|--------|-----------|-------|------|---|----------------|----------------|---------|
| 2,4'-DDD | ND | | 0.098 | ug/L | | 11/09/22 12:19 | 11/10/22 21:47 | 1 |
| 2,4'-DDE | ND | | 0.098 | ug/L | | 11/09/22 12:19 | 11/10/22 21:47 | 1 |
| 2,4'-DDT | ND | | 0.098 | ug/L | | 11/09/22 12:19 | 11/10/22 21:47 | 1 |
| 2,4-Dinitrotoluene | ND | | 0.098 | ug/L | | 11/09/22 12:19 | 11/10/22 21:47 | 1 |
| 2,6-Dinitrotoluene | ND | | 0.098 | ug/L | | 11/09/22 12:19 | 11/10/22 21:47 | 1 |
| 4,4'-DDD | ND | | 0.098 | ug/L | | 11/09/22 12:19 | 11/10/22 21:47 | 1 |
| 4,4'-DDE | ND | | 0.098 | ug/L | | 11/09/22 12:19 | 11/10/22 21:47 | 1 |
| 4,4'-DDT | ND | | 0.098 | ug/L | | 11/09/22 12:19 | 11/10/22 21:47 | 1 |
| Acenaphthene | ND | | 0.098 | ug/L | | 11/09/22 12:19 | 11/10/22 21:47 | 1 |
| Acenaphthylene | ND | | 0.098 | ug/L | | 11/09/22 12:19 | 11/10/22 21:47 | 1 |
| Acetochlor | ND | | 0.098 | ug/L | | 11/09/22 12:19 | 11/10/22 21:47 | 1 |
| Alachlor | ND | | 0.049 | ug/L | | 11/09/22 12:19 | 11/10/22 21:47 | 1 |
| alpha-BHC | ND | | 0.098 | ug/L | | 11/09/22 12:19 | 11/10/22 21:47 | 1 |
| alpha-Chlordane | ND | | 0.049 | ug/L | | 11/09/22 12:19 | 11/10/22 21:47 | 1 |
| Anthracene | ND | | 0.020 | ug/L | | 11/09/22 12:19 | 11/10/22 21:47 | 1 |
| Atrazine | ND | | 0.049 | ug/L | | 11/09/22 12:19 | 11/10/22 21:47 | 1 |
| Benz(a)anthracene | ND | | 0.049 | ug/L | | 11/09/22 12:19 | 11/10/22 21:47 | 1 |
| Benzo[a]pyrene | ND | | 0.020 | ug/L | | 11/09/22 12:19 | 11/10/22 21:47 | 1 |
| Benzo[b]fluoranthene | ND | | 0.020 | ug/L | | 11/09/22 12:19 | 11/10/22 21:47 | 1 |
| Benzo[g,h,i]perylene | ND | | 0.049 | ug/L | | 11/09/22 12:19 | 11/10/22 21:47 | 1 |
| Benzo[k]fluoranthene | ND | | 0.020 | ug/L | | 11/09/22 12:19 | 11/10/22 21:47 | 1 |
| beta-BHC | ND | | 0.098 | ug/L | | 11/09/22 12:19 | 11/10/22 21:47 | 1 |
| Bromacil | ND | | 0.098 | ug/L | | 11/09/22 12:19 | 11/10/22 21:47 | 1 |
| Butachlor | ND | | 0.049 | ug/L | | 11/09/22 12:19 | 11/10/22 21:47 | 1 |
| Butylbenzylphthalate | ND | | 0.49 | ug/L | | 11/09/22 12:19 | 11/10/22 21:47 | 1 |
| Caffeine | ND | | 0.049 | ug/L | | 11/09/22 12:19 | 11/10/22 21:47 | 1 |
| Chlorobenzilate | ND | | 0.098 | ug/L | | 11/09/22 12:19 | 11/10/22 21:47 | 1 |
| Chloroneb | ND | | 0.098 | ug/L | | 11/09/22 12:19 | 11/10/22 21:47 | 1 |
| Chlorothalonil (Draconil, Bravo) | ND | | 0.098 | ug/L | | 11/09/22 12:19 | 11/10/22 21:47 | 1 |
| Chlorpyrifos | ND | | 0.049 | ug/L | | 11/09/22 12:19 | 11/10/22 21:47 | 1 |
| Chrysene | ND | | 0.020 | ug/L | | 11/09/22 12:19 | 11/10/22 21:47 | 1 |
| delta-BHC | ND | | 0.098 | ug/L | | 11/09/22 12:19 | 11/10/22 21:47 | 1 |
| Di(2-ethylhexyl)adipate | ND | B | 0.59 | ug/L | | 11/09/22 12:19 | 11/10/22 21:47 | 1 |
| Bis(2-ethylhexyl) phthalate | ND | | 0.59 | ug/L | | 11/09/22 12:19 | 11/10/22 21:47 | 1 |
| Diazinon (Qualitative) | ND | | 0.098 | ug/L | | 11/09/22 12:19 | 11/10/22 21:47 | 1 |
| Dibenz(a,h)anthracene | ND | | 0.049 | ug/L | | 11/09/22 12:19 | 11/10/22 21:47 | 1 |
| Diclorvos (DDVP) | ND | | 0.049 | ug/L | | 11/09/22 12:19 | 11/10/22 21:47 | 1 |
| Dieldrin | ND | | 0.20 | ug/L | | 11/09/22 12:19 | 11/10/22 21:47 | 1 |
| Diethylphthalate | ND | | 0.49 | ug/L | | 11/09/22 12:19 | 11/10/22 21:47 | 1 |
| Dimethoate | ND | | 0.098 | ug/L | | 11/09/22 12:19 | 11/10/22 21:47 | 1 |
| Dimethylphthalate | ND | | 0.49 | ug/L | | 11/09/22 12:19 | 11/10/22 21:47 | 1 |
| Di-n-butyl phthalate | ND | | 0.98 | ug/L | | 11/09/22 12:19 | 11/10/22 21:47 | 1 |
| Di-n-octyl phthalate | ND | | 0.098 | ug/L | | 11/09/22 12:19 | 11/10/22 21:47 | 1 |
| Endosulfan I (Alpha) | ND | | 0.098 | ug/L | | 11/09/22 12:19 | 11/10/22 21:47 | 1 |
| Endosulfan II (Beta) | ND | | 0.098 | ug/L | | 11/09/22 12:19 | 11/10/22 21:47 | 1 |
| Endosulfan sulfate | ND | | 0.098 | ug/L | | 11/09/22 12:19 | 11/10/22 21:47 | 1 |
| Endrin | ND | | 0.098 | ug/L | | 11/09/22 12:19 | 11/10/22 21:47 | 1 |
| Endrin aldehyde | ND | | 0.098 | ug/L | | 11/09/22 12:19 | 11/10/22 21:47 | 1 |
| EPTC | ND | | 0.098 | ug/L | | 11/09/22 12:19 | 11/10/22 21:47 | 1 |

Eurofins Eaton Monrovia

Client Sample Results

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

Job ID: 380-26568-1

Client Sample ID: AIEA GULCH WELLS PUMP 1

Lab Sample ID: 380-26568-1

Date Collected: 10/31/22 10:24

Matrix: Drinking Water

Date Received: 11/01/22 10:00

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------------|--------|-----------|-------|------|---|----------------|----------------|---------|
| Fluoranthene | ND | | 0.098 | ug/L | | 11/09/22 12:19 | 11/10/22 21:47 | 1 |
| Fluorene | ND | | 0.049 | ug/L | | 11/09/22 12:19 | 11/10/22 21:47 | 1 |
| gamma-Chlordane | ND | | 0.049 | ug/L | | 11/09/22 12:19 | 11/10/22 21:47 | 1 |
| Heptachlor | ND | | 0.039 | ug/L | | 11/09/22 12:19 | 11/10/22 21:47 | 1 |
| Heptachlor epoxide (isomer B) | ND | | 0.049 | ug/L | | 11/09/22 12:19 | 11/10/22 21:47 | 1 |
| Hexachlorobenzene | ND | | 0.049 | ug/L | | 11/09/22 12:19 | 11/10/22 21:47 | 1 |
| Hexachlorocyclopentadiene | ND | | 0.049 | ug/L | | 11/09/22 12:19 | 11/10/22 21:47 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 0.049 | ug/L | | 11/09/22 12:19 | 11/10/22 21:47 | 1 |
| Isophorone | ND | | 0.49 | ug/L | | 11/09/22 12:19 | 11/10/22 21:47 | 1 |
| Lindane | ND | | 0.039 | ug/L | | 11/09/22 12:19 | 11/10/22 21:47 | 1 |
| Malathion | ND | | 0.098 | ug/L | | 11/09/22 12:19 | 11/10/22 21:47 | 1 |
| Methoxychlor | ND | | 0.098 | ug/L | | 11/09/22 12:19 | 11/10/22 21:47 | 1 |
| Metolachlor | ND | | 0.049 | ug/L | | 11/09/22 12:19 | 11/10/22 21:47 | 1 |
| Metribuzin | ND | | 0.049 | ug/L | | 11/09/22 12:19 | 11/10/22 21:47 | 1 |
| Molinate | ND | | 0.098 | ug/L | | 11/09/22 12:19 | 11/10/22 21:47 | 1 |
| Naphthalene | ND | | 0.30 | ug/L | | 11/09/22 12:19 | 11/10/22 21:47 | 1 |
| Parathion | ND | | 0.098 | ug/L | | 11/09/22 12:19 | 11/10/22 21:47 | 1 |
| Pendimethalin (Penoxaline) | ND | | 0.098 | ug/L | | 11/09/22 12:19 | 11/10/22 21:47 | 1 |
| Total Permethrin (mixed isomers) | ND | | 0.20 | ug/L | | 11/09/22 12:19 | 11/10/22 21:47 | 1 |
| Phenanthrene | ND | | 0.039 | ug/L | | 11/09/22 12:19 | 11/10/22 21:47 | 1 |
| Propachlor | ND | | 0.049 | ug/L | | 11/09/22 12:19 | 11/10/22 21:47 | 1 |
| Pyrene | ND | | 0.049 | ug/L | | 11/09/22 12:19 | 11/10/22 21:47 | 1 |
| Simazine | ND | | 0.049 | ug/L | | 11/09/22 12:19 | 11/10/22 21:47 | 1 |
| Terbacil | ND | | 0.098 | ug/L | | 11/09/22 12:19 | 11/10/22 21:47 | 1 |
| Terbutylazine | ND | | 0.098 | ug/L | | 11/09/22 12:19 | 11/10/22 21:47 | 1 |
| Thiobencarb | ND | | 0.20 | ug/L | | 11/09/22 12:19 | 11/10/22 21:47 | 1 |
| trans-Nonachlor | ND | | 0.049 | ug/L | | 11/09/22 12:19 | 11/10/22 21:47 | 1 |
| Trifluralin | ND | | 0.098 | ug/L | | 11/09/22 12:19 | 11/10/22 21:47 | 1 |

| Tentatively Identified Compound | Est. Result | Qualifier | Unit | D | RT | CAS No. | Prepared | Analyzed | Dil Fac |
|----------------------------------|-------------|-----------|------|---|------|----------|----------------|----------------|---------|
| Decane | 1.9 | T J N | ug/L | | 2.47 | 124-18-5 | 11/09/22 12:19 | 11/10/22 21:47 | 1 |
| Cyclopentasiloxane, decamethyl- | 0.77 | T J N | ug/L | | 2.77 | 541-02-6 | 11/09/22 12:19 | 11/10/22 21:47 | 1 |
| Cyclohexasiloxane, dodecamethyl- | 0.55 | T J N | ug/L | | 3.33 | 540-97-6 | 11/09/22 12:19 | 11/10/22 21:47 | 1 |
| Pentasiloxane, dodecamethyl- | 0.61 | T J N | ug/L | | 3.94 | 141-63-9 | 11/09/22 12:19 | 11/10/22 21:47 | 1 |
| n-Hexadecanoic acid | 0.57 | T J N | ug/L | | 5.92 | 57-10-3 | 11/09/22 12:19 | 11/10/22 21:47 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|--------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2-Nitro-m-xylene | 98 | | 70 - 130 | 11/09/22 12:19 | 11/10/22 21:47 | 1 |
| Triphenylphosphate | 93 | | 70 - 130 | 11/09/22 12:19 | 11/10/22 21:47 | 1 |
| Perylene-d12 | 97 | | 70 - 130 | 11/09/22 12:19 | 11/10/22 21:47 | 1 |

Method: 625 PAH Physis LL (EAL) + TICs - EPA 625 Base/Neutral and Acid Organics i

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------|--------|-----------|-------|-------|------|---|----------------|----------------|---------|
| 1-Methylnaphthalene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/15/22 14:12 | 1 |
| 1-Methylnaphthalene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/16/22 09:57 | 1 |
| 1-Methylphenanthrene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/15/22 14:12 | 1 |
| 1-Methylphenanthrene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/16/22 09:57 | 1 |
| 2,3,5-Trimethylnaphthalene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/15/22 14:12 | 1 |
| 2,3,5-Trimethylnaphthalene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/16/22 09:57 | 1 |
| 2,6-Dimethylnaphthalene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/15/22 14:12 | 1 |

Eurofins Eaton Monrovia

Client Sample Results

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

Job ID: 380-26568-1

Client Sample ID: AIEA GULCH WELLS PUMP 1

Lab Sample ID: 380-26568-1

Date Collected: 10/31/22 10:24

Matrix: Drinking Water

Date Received: 11/01/22 10:00

Method: 625 PAH Physis LL (EAL) + TICs - EPA 625 Base/Neutral and Acid Organics i (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-------|-------|------|---|----------------|----------------|---------|
| 2,6-Dimethylnaphthalene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/16/22 09:57 | 1 |
| 2-Methylnaphthalene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/15/22 14:12 | 1 |
| 2-Methylnaphthalene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/16/22 09:57 | 1 |
| Acenaphthene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/15/22 14:12 | 1 |
| Acenaphthene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/16/22 09:57 | 1 |
| Acenaphthylene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/15/22 14:12 | 1 |
| Acenaphthylene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/16/22 09:57 | 1 |
| Anthracene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/15/22 14:12 | 1 |
| Anthracene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/16/22 09:57 | 1 |
| Benz[a]anthracene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/15/22 14:12 | 1 |
| Benz[a]anthracene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/16/22 09:57 | 1 |
| Benzo[a]pyrene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/15/22 14:12 | 1 |
| Benzo[a]pyrene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/16/22 09:57 | 1 |
| Benzo[b]fluoranthene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/15/22 14:12 | 1 |
| Benzo[b]fluoranthene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/16/22 09:57 | 1 |
| Benzo[e]pyrene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/15/22 14:12 | 1 |
| Benzo[e]pyrene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/16/22 09:57 | 1 |
| Benzo[g,h,i]perylene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/15/22 14:12 | 1 |
| Benzo[g,h,i]perylene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/16/22 09:57 | 1 |
| Benzo[k]fluoranthene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/15/22 14:12 | 1 |
| Benzo[k]fluoranthene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/16/22 09:57 | 1 |
| Biphenyl | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/15/22 14:12 | 1 |
| Biphenyl | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/16/22 09:57 | 1 |
| Chrysene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/15/22 14:12 | 1 |
| Chrysene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/16/22 09:57 | 1 |
| Dibenz[a,h]anthracene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/15/22 14:12 | 1 |
| Dibenz[a,h]anthracene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/16/22 09:57 | 1 |
| Dibenzo[a,l]pyrene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/15/22 14:12 | 1 |
| Dibenzo[a,l]pyrene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/16/22 09:57 | 1 |
| Dibenzothiophene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/15/22 14:12 | 1 |
| Dibenzothiophene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/16/22 09:57 | 1 |
| Disalicylidenepropanediamine | ND | | 0.1 | 0.05 | µg/L | | 11/03/22 00:00 | 11/15/22 14:12 | 1 |
| Disalicylidenepropanediamine | ND | | 0.1 | 0.05 | µg/L | | 11/03/22 00:00 | 11/16/22 09:57 | 1 |
| Fluoranthene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/15/22 14:12 | 1 |
| Fluoranthene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/16/22 09:57 | 1 |
| Fluorene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/15/22 14:12 | 1 |
| Fluorene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/16/22 09:57 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/15/22 14:12 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/16/22 09:57 | 1 |
| Naphthalene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/15/22 14:12 | 1 |
| Naphthalene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/16/22 09:57 | 1 |
| Perylene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/15/22 14:12 | 1 |
| Perylene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/16/22 09:57 | 1 |
| Phenanthrene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/15/22 14:12 | 1 |
| Phenanthrene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/16/22 09:57 | 1 |
| Pyrene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/15/22 14:12 | 1 |
| Pyrene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/16/22 09:57 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|--------------------|-----------|-----------|----------|----------------|----------------|---------|
| (d10-Acenaphthene) | 75 | | 45 - 118 | 11/03/22 00:00 | 11/15/22 14:12 | 1 |

Eurofins Eaton Monrovia

Client Sample Results

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

Job ID: 380-26568-1

Client Sample ID: AIEA GULCH WELLS PUMP 1

Lab Sample ID: 380-26568-1

Date Collected: 10/31/22 10:24

Matrix: Drinking Water

Date Received: 11/01/22 10:00

Method: 625 PAH Physis LL (EAL) + TICs - EPA 625 Base/Neutral and Acid Organics i (Continued)

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|--------------------|-----------|-----------|----------|----------------|----------------|---------|
| (d10-Acenaphthene) | 61 | | 45 - 118 | 11/03/22 00:00 | 11/16/22 09:57 | 1 |
| (d10-Phenanthrene) | 88 | | 56 - 123 | 11/03/22 00:00 | 11/15/22 14:12 | 1 |
| (d10-Phenanthrene) | 69 | | 56 - 123 | 11/03/22 00:00 | 11/16/22 09:57 | 1 |
| (d12-Chrysene) | 103 | | 36 - 142 | 11/03/22 00:00 | 11/15/22 14:12 | 1 |
| (d12-Chrysene) | 92 | | 36 - 142 | 11/03/22 00:00 | 11/16/22 09:57 | 1 |
| (d12-Perylene) | 82 | | 36 - 161 | 11/03/22 00:00 | 11/15/22 14:12 | 1 |
| (d12-Perylene) | 81 | | 36 - 161 | 11/03/22 00:00 | 11/16/22 09:57 | 1 |
| (d8-Naphthalene) | 65 | | 20 - 112 | 11/03/22 00:00 | 11/15/22 14:12 | 1 |
| (d8-Naphthalene) | 39 | | 20 - 112 | 11/03/22 00:00 | 11/16/22 09:57 | 1 |

Method: 8015 Gas (Purgeable) LL (EAL) - SW846 8015B Gasoline Range Organics

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-------|-----|------|---|----------|----------------|---------|
| GASOLINE | ND | U | 0.020 | | mg/L | | | 11/03/22 16:16 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|--------------------|-----------|-----------|----------|----------|----------------|---------|
| BROMOFLUOROBENZENE | 83 | | 60 - 140 | | 11/03/22 16:16 | 1 |

Method: 8015 LL DRO/MRO/JP5/JP8 - 8015 - TPH DRO/ORO

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|-------|-----|------|---|----------|----------------|---------|
| DIESEL | ND | U | 0.029 | | mg/L | | | 11/11/22 17:50 | 1 |
| JP5 | ND | U | 0.058 | | mg/L | | | 11/11/22 17:50 | 1 |
| JP8 | ND | U | 0.058 | | mg/L | | | 11/11/22 17:50 | 1 |
| MOTOR OIL | ND | U | 0.058 | | mg/L | | | 11/11/22 17:50 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|--------------|-----------|-----------|----------|----------|----------------|---------|
| BROMOBENZENE | 113 | | 60 - 130 | | 11/11/22 17:50 | 1 |
| HEXACOSANE | 99 | | 60 - 130 | | 11/11/22 17:50 | 1 |

Client Sample ID: AIEA WELLS PUMPS 1&2 (260)

Lab Sample ID: 380-26568-2

Date Collected: 10/31/22 10:03

Matrix: Drinking Water

Date Received: 11/01/22 10:00

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------|--------|-----------|-------|------|---|----------------|----------------|---------|
| 2,4'-DDD | ND | ^3+ | 0.098 | ug/L | | 11/03/22 12:55 | 11/07/22 13:49 | 1 |
| 2,4'-DDE | ND | | 0.098 | ug/L | | 11/03/22 12:55 | 11/07/22 13:49 | 1 |
| 2,4'-DDT | ND | | 0.098 | ug/L | | 11/03/22 12:55 | 11/07/22 13:49 | 1 |
| 2,4-Dinitrotoluene | ND | | 0.098 | ug/L | | 11/03/22 12:55 | 11/07/22 13:49 | 1 |
| 2,6-Dinitrotoluene | ND | | 0.098 | ug/L | | 11/03/22 12:55 | 11/07/22 13:49 | 1 |
| 4,4'-DDD | ND | | 0.098 | ug/L | | 11/03/22 12:55 | 11/07/22 13:49 | 1 |
| 4,4'-DDE | ND | | 0.098 | ug/L | | 11/03/22 12:55 | 11/07/22 13:49 | 1 |
| 4,4'-DDT | ND | | 0.098 | ug/L | | 11/03/22 12:55 | 11/07/22 13:49 | 1 |
| Acenaphthene | ND | | 0.098 | ug/L | | 11/03/22 12:55 | 11/07/22 13:49 | 1 |
| Acenaphthylene | ND | | 0.098 | ug/L | | 11/03/22 12:55 | 11/07/22 13:49 | 1 |
| Acetochlor | ND | | 0.098 | ug/L | | 11/03/22 12:55 | 11/07/22 13:49 | 1 |
| Alachlor | ND | | 0.049 | ug/L | | 11/03/22 12:55 | 11/07/22 13:49 | 1 |
| alpha-BHC | ND | | 0.098 | ug/L | | 11/03/22 12:55 | 11/07/22 13:49 | 1 |
| alpha-Chlordane | ND | | 0.049 | ug/L | | 11/03/22 12:55 | 11/07/22 13:49 | 1 |
| Anthracene | ND | | 0.020 | ug/L | | 11/03/22 12:55 | 11/07/22 13:49 | 1 |
| Atrazine | ND | ^3+ | 0.049 | ug/L | | 11/03/22 12:55 | 11/07/22 13:49 | 1 |

Eurofins Eaton Monrovia

Client Sample Results

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

Job ID: 380-26568-1

Client Sample ID: AIEA WELLS PUMPS 1&2 (260)

Lab Sample ID: 380-26568-2

Date Collected: 10/31/22 10:03

Matrix: Drinking Water

Date Received: 11/01/22 10:00

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------------|--------|-----------|-------|------|---|----------------|----------------|---------|
| Benz(a)anthracene | ND | | 0.049 | ug/L | | 11/03/22 12:55 | 11/07/22 13:49 | 1 |
| Benzo[a]pyrene | ND | | 0.020 | ug/L | | 11/03/22 12:55 | 11/07/22 13:49 | 1 |
| Benzo[b]fluoranthene | ND | | 0.020 | ug/L | | 11/03/22 12:55 | 11/07/22 13:49 | 1 |
| Benzo[g,h,i]perylene | ND | | 0.049 | ug/L | | 11/03/22 12:55 | 11/07/22 13:49 | 1 |
| Benzo[k]fluoranthene | ND | | 0.020 | ug/L | | 11/03/22 12:55 | 11/07/22 13:49 | 1 |
| beta-BHC | ND | ^3+ | 0.098 | ug/L | | 11/03/22 12:55 | 11/07/22 13:49 | 1 |
| Bromacil | ND | | 0.098 | ug/L | | 11/03/22 12:55 | 11/07/22 13:49 | 1 |
| Butachlor | ND | | 0.049 | ug/L | | 11/03/22 12:55 | 11/07/22 13:49 | 1 |
| Butylbenzylphthalate | ND | | 0.49 | ug/L | | 11/03/22 12:55 | 11/07/22 13:49 | 1 |
| Caffeine | ND | | 0.049 | ug/L | | 11/03/22 12:55 | 11/07/22 13:49 | 1 |
| Chlorobenzilate | ND | | 0.098 | ug/L | | 11/03/22 12:55 | 11/07/22 13:49 | 1 |
| Chloroneb | ND | | 0.098 | ug/L | | 11/03/22 12:55 | 11/07/22 13:49 | 1 |
| Chlorothalonil (Draconil, Bravo) | ND | | 0.098 | ug/L | | 11/03/22 12:55 | 11/07/22 13:49 | 1 |
| Chlorpyrifos | ND | | 0.049 | ug/L | | 11/03/22 12:55 | 11/07/22 13:49 | 1 |
| Chrysene | ND | | 0.020 | ug/L | | 11/03/22 12:55 | 11/07/22 13:49 | 1 |
| delta-BHC | ND | | 0.098 | ug/L | | 11/03/22 12:55 | 11/07/22 13:49 | 1 |
| Di(2-ethylhexyl)adipate | ND | | 0.59 | ug/L | | 11/03/22 12:55 | 11/07/22 13:49 | 1 |
| Bis(2-ethylhexyl) phthalate | ND | | 0.59 | ug/L | | 11/03/22 12:55 | 11/07/22 13:49 | 1 |
| Diazinon (Qualitative) | ND | ^3+ | 0.098 | ug/L | | 11/03/22 12:55 | 11/07/22 13:49 | 1 |
| Dibenz(a,h)anthracene | ND | | 0.049 | ug/L | | 11/03/22 12:55 | 11/07/22 13:49 | 1 |
| Diclorvos (DDVP) | ND | | 0.049 | ug/L | | 11/03/22 12:55 | 11/07/22 13:49 | 1 |
| Dieldrin | ND | | 0.20 | ug/L | | 11/03/22 12:55 | 11/07/22 13:49 | 1 |
| Diethylphthalate | ND | | 0.49 | ug/L | | 11/03/22 12:55 | 11/07/22 13:49 | 1 |
| Dimethoate | ND | | 0.098 | ug/L | | 11/03/22 12:55 | 11/07/22 13:49 | 1 |
| Dimethylphthalate | ND | | 0.49 | ug/L | | 11/03/22 12:55 | 11/07/22 13:49 | 1 |
| Di-n-butyl phthalate | ND | | 0.98 | ug/L | | 11/03/22 12:55 | 11/07/22 13:49 | 1 |
| Di-n-octyl phthalate | ND | | 0.098 | ug/L | | 11/03/22 12:55 | 11/07/22 13:49 | 1 |
| Endosulfan I (Alpha) | ND | | 0.098 | ug/L | | 11/03/22 12:55 | 11/07/22 13:49 | 1 |
| Endosulfan II (Beta) | ND | | 0.098 | ug/L | | 11/03/22 12:55 | 11/07/22 13:49 | 1 |
| Endosulfan sulfate | ND | | 0.098 | ug/L | | 11/03/22 12:55 | 11/07/22 13:49 | 1 |
| Endrin | ND | | 0.098 | ug/L | | 11/03/22 12:55 | 11/07/22 13:49 | 1 |
| Endrin aldehyde | ND | | 0.098 | ug/L | | 11/03/22 12:55 | 11/07/22 13:49 | 1 |
| EPTC | ND | | 0.098 | ug/L | | 11/03/22 12:55 | 11/07/22 13:49 | 1 |
| Fluoranthene | ND | *1 | 0.098 | ug/L | | 11/03/22 12:55 | 11/07/22 13:49 | 1 |
| Fluorene | ND | | 0.049 | ug/L | | 11/03/22 12:55 | 11/07/22 13:49 | 1 |
| gamma-Chlordane | ND | | 0.049 | ug/L | | 11/03/22 12:55 | 11/07/22 13:49 | 1 |
| Heptachlor | ND | | 0.039 | ug/L | | 11/03/22 12:55 | 11/07/22 13:49 | 1 |
| Heptachlor epoxide (isomer B) | ND | | 0.049 | ug/L | | 11/03/22 12:55 | 11/07/22 13:49 | 1 |
| Hexachlorobenzene | ND | | 0.049 | ug/L | | 11/03/22 12:55 | 11/07/22 13:49 | 1 |
| Hexachlorocyclopentadiene | ND | | 0.049 | ug/L | | 11/03/22 12:55 | 11/07/22 13:49 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 0.049 | ug/L | | 11/03/22 12:55 | 11/07/22 13:49 | 1 |
| Isophorone | ND | | 0.49 | ug/L | | 11/03/22 12:55 | 11/07/22 13:49 | 1 |
| Lindane | ND | | 0.039 | ug/L | | 11/03/22 12:55 | 11/07/22 13:49 | 1 |
| Malathion | ND | | 0.098 | ug/L | | 11/03/22 12:55 | 11/07/22 13:49 | 1 |
| Methoxychlor | ND | | 0.098 | ug/L | | 11/03/22 12:55 | 11/07/22 13:49 | 1 |
| Metolachlor | ND | | 0.049 | ug/L | | 11/03/22 12:55 | 11/07/22 13:49 | 1 |
| Metribuzin | ND | ^3+ | 0.049 | ug/L | | 11/03/22 12:55 | 11/07/22 13:49 | 1 |
| Molinatate | ND | | 0.098 | ug/L | | 11/03/22 12:55 | 11/07/22 13:49 | 1 |
| Naphthalene | ND | | 0.29 | ug/L | | 11/03/22 12:55 | 11/07/22 13:49 | 1 |

Eurofins Eaton Monrovia

Client Sample Results

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

Job ID: 380-26568-1

Client Sample ID: AIEA WELLS PUMPS 1&2 (260)

Lab Sample ID: 380-26568-2

Date Collected: 10/31/22 10:03

Matrix: Drinking Water

Date Received: 11/01/22 10:00

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------------|--------|-----------|-------|------|---|----------------|----------------|---------|
| Parathion | ND | | 0.098 | ug/L | | 11/03/22 12:55 | 11/07/22 13:49 | 1 |
| Pendimethalin (Penoxaline) | ND | | 0.098 | ug/L | | 11/03/22 12:55 | 11/07/22 13:49 | 1 |
| Total Permethrin (mixed isomers) | ND | | 0.20 | ug/L | | 11/03/22 12:55 | 11/07/22 13:49 | 1 |
| Phenanthrene | ND | | 0.039 | ug/L | | 11/03/22 12:55 | 11/07/22 13:49 | 1 |
| Propachlor | ND | ^3+ | 0.049 | ug/L | | 11/03/22 12:55 | 11/07/22 13:49 | 1 |
| Pyrene | ND | | 0.049 | ug/L | | 11/03/22 12:55 | 11/07/22 13:49 | 1 |
| Simazine | ND | ^3+ | 0.049 | ug/L | | 11/03/22 12:55 | 11/07/22 13:49 | 1 |
| Terbacil | ND | | 0.098 | ug/L | | 11/03/22 12:55 | 11/07/22 13:49 | 1 |
| Terbutylazine | ND | ^3+ | 0.098 | ug/L | | 11/03/22 12:55 | 11/07/22 13:49 | 1 |
| Thiobencarb | ND | | 0.20 | ug/L | | 11/03/22 12:55 | 11/07/22 13:49 | 1 |
| trans-Nonachlor | ND | | 0.049 | ug/L | | 11/03/22 12:55 | 11/07/22 13:49 | 1 |
| Trifluralin | ND | | 0.098 | ug/L | | 11/03/22 12:55 | 11/07/22 13:49 | 1 |

| Tentatively Identified Compound | Est. Result | Qualifier | Unit | D | RT | CAS No. | Prepared | Analyzed | Dil Fac |
|----------------------------------|-------------|-----------|------|---|------|----------|----------------|----------------|---------|
| Cyclotetrasiloxane, octamethyl- | 0.60 | T J N | ug/L | | 2.30 | 556-67-2 | 11/03/22 12:55 | 11/07/22 13:49 | 1 |
| Decane | 1.6 | T J N | ug/L | | 2.44 | 124-18-5 | 11/03/22 12:55 | 11/07/22 13:49 | 1 |
| Cyclopentasiloxane, decamethyl- | 0.79 | T J N | ug/L | | 2.73 | 541-02-6 | 11/03/22 12:55 | 11/07/22 13:49 | 1 |
| Cyclohexasiloxane, dodecamethyl- | 0.58 | T J N | ug/L | | 3.29 | 540-97-6 | 11/03/22 12:55 | 11/07/22 13:49 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|--------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2-Nitro-m-xylene | 100 | | 70 - 130 | 11/03/22 12:55 | 11/07/22 13:49 | 1 |
| Triphenylphosphate | 96 | | 70 - 130 | 11/03/22 12:55 | 11/07/22 13:49 | 1 |
| Perylene-d12 | 91 | | 70 - 130 | 11/03/22 12:55 | 11/07/22 13:49 | 1 |

Method: 625 PAH Physis LL (EAL) + TICs - EPA 625 Base/Neutral and Acid Organics I

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-------|-------|------|---|----------------|----------------|---------|
| 1-Methylnaphthalene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/16/22 08:14 | 1 |
| 1-Methylphenanthrene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/16/22 08:14 | 1 |
| 2,3,5-Trimethylnaphthalene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/16/22 08:14 | 1 |
| 2,6-Dimethylnaphthalene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/16/22 08:14 | 1 |
| 2-Methylnaphthalene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/16/22 08:14 | 1 |
| Acenaphthene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/16/22 08:14 | 1 |
| Acenaphthylene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/16/22 08:14 | 1 |
| Anthracene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/16/22 08:14 | 1 |
| Benz[a]anthracene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/16/22 08:14 | 1 |
| Benzo[a]pyrene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/16/22 08:14 | 1 |
| Benzo[b]fluoranthene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/16/22 08:14 | 1 |
| Benzo[e]pyrene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/16/22 08:14 | 1 |
| Benzo[g,h,i]perylene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/16/22 08:14 | 1 |
| Benzo[k]fluoranthene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/16/22 08:14 | 1 |
| Biphenyl | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/16/22 08:14 | 1 |
| Chrysene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/16/22 08:14 | 1 |
| Dibenz[a,h]anthracene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/16/22 08:14 | 1 |
| Dibenzo[a,l]pyrene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/16/22 08:14 | 1 |
| Dibenzothiophene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/16/22 08:14 | 1 |
| Disalicylidenepropanediamine | ND | | 0.1 | 0.05 | µg/L | | 11/03/22 00:00 | 11/16/22 08:14 | 1 |
| Fluoranthene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/16/22 08:14 | 1 |
| Fluorene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/16/22 08:14 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/16/22 08:14 | 1 |
| Naphthalene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/16/22 08:14 | 1 |

Eurofins Eaton Monrovia

Client Sample Results

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

Job ID: 380-26568-1

Client Sample ID: AIEA WELLS PUMPS 1&2 (260)

Lab Sample ID: 380-26568-2

Date Collected: 10/31/22 10:03

Matrix: Drinking Water

Date Received: 11/01/22 10:00

Method: 625 PAH Physis LL (EAL) + TICs - EPA 625 Base/Neutral and Acid Organics i (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------|-----------|-----------|----------|-------|------|---|----------------|----------------|---------|
| Perylene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/16/22 08:14 | 1 |
| Phenanthrene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/16/22 08:14 | 1 |
| Pyrene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/16/22 08:14 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| (d10-Acenaphthene) | 80 | | 45 - 118 | | | | 11/03/22 00:00 | 11/16/22 08:14 | 1 |
| (d10-Phenanthrene) | 86 | | 56 - 123 | | | | 11/03/22 00:00 | 11/16/22 08:14 | 1 |
| (d12-Chrysene) | 92 | | 36 - 142 | | | | 11/03/22 00:00 | 11/16/22 08:14 | 1 |
| (d12-Perylene) | 78 | | 36 - 161 | | | | 11/03/22 00:00 | 11/16/22 08:14 | 1 |
| (d8-Naphthalene) | 69 | | 20 - 112 | | | | 11/03/22 00:00 | 11/16/22 08:14 | 1 |

Method: 8015 Gas (Purgeable) LL (EAL) - SW846 8015B Gasoline Range Organics

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------|-----------|-----------|----------|-----|------|---|----------|----------------|---------|
| GASOLINE | ND | U | 0.020 | | mg/L | | | 11/03/22 18:06 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| BROMOFLUOROBENZENE | 94 | | 60 - 140 | | | | | 11/03/22 18:06 | 1 |

Method: 8015 LL DRO/MRO/JP5/JP8 - 8015 - TPH DRO/ORO

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------|-----------|-----------|----------|-----|------|---|----------|----------------|---------|
| DIESEL | ND | U | 0.027 | | mg/L | | | 11/11/22 18:08 | 1 |
| JP5 | ND | U | 0.055 | | mg/L | | | 11/11/22 18:08 | 1 |
| JP8 | ND | U | 0.055 | | mg/L | | | 11/11/22 18:08 | 1 |
| MOTOR OIL | ND | U | 0.055 | | mg/L | | | 11/11/22 18:08 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| BROMOBENZENE | 123 | | 60 - 130 | | | | | 11/11/22 18:08 | 1 |
| HEXACOSANE | 108 | | 60 - 130 | | | | | 11/11/22 18:08 | 1 |

Client Sample ID: AIEA GULCH WELLS PUMP 2

Lab Sample ID: 380-26568-3

Date Collected: 10/31/22 10:38

Matrix: Drinking Water

Date Received: 11/01/22 10:00

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------|--------|-----------|-------|------|---|----------------|----------------|---------|
| 2,4'-DDD | ND | ^3+ *3 | 0.098 | ug/L | | 11/03/22 12:55 | 11/07/22 14:09 | 1 |
| 2,4'-DDE | ND | *3 | 0.098 | ug/L | | 11/03/22 12:55 | 11/07/22 14:09 | 1 |
| 2,4'-DDT | ND | *3 | 0.098 | ug/L | | 11/03/22 12:55 | 11/07/22 14:09 | 1 |
| 2,4-Dinitrotoluene | ND | *3 | 0.098 | ug/L | | 11/03/22 12:55 | 11/07/22 14:09 | 1 |
| 2,6-Dinitrotoluene | ND | *3 | 0.098 | ug/L | | 11/03/22 12:55 | 11/07/22 14:09 | 1 |
| 4,4'-DDD | ND | *3 | 0.098 | ug/L | | 11/03/22 12:55 | 11/07/22 14:09 | 1 |
| 4,4'-DDE | ND | *3 | 0.098 | ug/L | | 11/03/22 12:55 | 11/07/22 14:09 | 1 |
| 4,4'-DDT | ND | *3 | 0.098 | ug/L | | 11/03/22 12:55 | 11/07/22 14:09 | 1 |
| Acenaphthene | ND | *3 | 0.098 | ug/L | | 11/03/22 12:55 | 11/07/22 14:09 | 1 |
| Acenaphthylene | ND | *3 | 0.098 | ug/L | | 11/03/22 12:55 | 11/07/22 14:09 | 1 |
| Acetochlor | ND | *3 | 0.098 | ug/L | | 11/03/22 12:55 | 11/07/22 14:09 | 1 |
| Alachlor | ND | *3 | 0.049 | ug/L | | 11/03/22 12:55 | 11/07/22 14:09 | 1 |
| alpha-BHC | ND | *3 | 0.098 | ug/L | | 11/03/22 12:55 | 11/07/22 14:09 | 1 |
| alpha-Chlordane | ND | *3 | 0.049 | ug/L | | 11/03/22 12:55 | 11/07/22 14:09 | 1 |
| Anthracene | ND | *3 | 0.020 | ug/L | | 11/03/22 12:55 | 11/07/22 14:09 | 1 |
| Atrazine | ND | ^3+ *3 | 0.049 | ug/L | | 11/03/22 12:55 | 11/07/22 14:09 | 1 |

Eurofins Eaton Monrovia

Client Sample Results

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

Job ID: 380-26568-1

Client Sample ID: AIEA GULCH WELLS PUMP 2

Lab Sample ID: 380-26568-3

Date Collected: 10/31/22 10:38

Matrix: Drinking Water

Date Received: 11/01/22 10:00

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------------|--------|-----------|-------|------|---|----------------|----------------|---------|
| Benz(a)anthracene | ND | *3 | 0.049 | ug/L | | 11/03/22 12:55 | 11/07/22 14:09 | 1 |
| Benzo[a]pyrene | ND | *3 | 0.020 | ug/L | | 11/03/22 12:55 | 11/07/22 14:09 | 1 |
| Benzo[b]fluoranthene | ND | *3 | 0.020 | ug/L | | 11/03/22 12:55 | 11/07/22 14:09 | 1 |
| Benzo[g,h,i]perylene | ND | *3 | 0.049 | ug/L | | 11/03/22 12:55 | 11/07/22 14:09 | 1 |
| Benzo[k]fluoranthene | ND | *3 | 0.020 | ug/L | | 11/03/22 12:55 | 11/07/22 14:09 | 1 |
| beta-BHC | ND | ^3+ *3 | 0.098 | ug/L | | 11/03/22 12:55 | 11/07/22 14:09 | 1 |
| Bromacil | ND | *3 | 0.098 | ug/L | | 11/03/22 12:55 | 11/07/22 14:09 | 1 |
| Butachlor | ND | *3 | 0.049 | ug/L | | 11/03/22 12:55 | 11/07/22 14:09 | 1 |
| Butylbenzylphthalate | ND | *3 | 0.49 | ug/L | | 11/03/22 12:55 | 11/07/22 14:09 | 1 |
| Caffeine | ND | *3 | 0.049 | ug/L | | 11/03/22 12:55 | 11/07/22 14:09 | 1 |
| Chlorobenzilate | ND | *3 | 0.098 | ug/L | | 11/03/22 12:55 | 11/07/22 14:09 | 1 |
| Chloroneb | ND | *3 | 0.098 | ug/L | | 11/03/22 12:55 | 11/07/22 14:09 | 1 |
| Chlorothalonil (Draconil, Bravo) | ND | *3 | 0.098 | ug/L | | 11/03/22 12:55 | 11/07/22 14:09 | 1 |
| Chlorpyrifos | ND | *3 | 0.049 | ug/L | | 11/03/22 12:55 | 11/07/22 14:09 | 1 |
| Chrysene | ND | *3 | 0.020 | ug/L | | 11/03/22 12:55 | 11/07/22 14:09 | 1 |
| delta-BHC | ND | *3 | 0.098 | ug/L | | 11/03/22 12:55 | 11/07/22 14:09 | 1 |
| Di(2-ethylhexyl)adipate | ND | *3 | 0.59 | ug/L | | 11/03/22 12:55 | 11/07/22 14:09 | 1 |
| Bis(2-ethylhexyl) phthalate | ND | *3 | 0.59 | ug/L | | 11/03/22 12:55 | 11/07/22 14:09 | 1 |
| Diazinon (Qualitative) | ND | ^3+ *3 | 0.098 | ug/L | | 11/03/22 12:55 | 11/07/22 14:09 | 1 |
| Dibenz(a,h)anthracene | ND | *3 | 0.049 | ug/L | | 11/03/22 12:55 | 11/07/22 14:09 | 1 |
| Diclorvos (DDVP) | ND | *3 | 0.049 | ug/L | | 11/03/22 12:55 | 11/07/22 14:09 | 1 |
| Dieldrin | ND | *3 | 0.20 | ug/L | | 11/03/22 12:55 | 11/07/22 14:09 | 1 |
| Diethylphthalate | ND | *3 | 0.49 | ug/L | | 11/03/22 12:55 | 11/07/22 14:09 | 1 |
| Dimethoate | ND | *3 | 0.098 | ug/L | | 11/03/22 12:55 | 11/07/22 14:09 | 1 |
| Dimethylphthalate | ND | *3 | 0.49 | ug/L | | 11/03/22 12:55 | 11/07/22 14:09 | 1 |
| Di-n-butyl phthalate | ND | *3 | 0.98 | ug/L | | 11/03/22 12:55 | 11/07/22 14:09 | 1 |
| Di-n-octyl phthalate | ND | *3 | 0.098 | ug/L | | 11/03/22 12:55 | 11/07/22 14:09 | 1 |
| Endosulfan I (Alpha) | ND | *3 | 0.098 | ug/L | | 11/03/22 12:55 | 11/07/22 14:09 | 1 |
| Endosulfan II (Beta) | ND | *3 | 0.098 | ug/L | | 11/03/22 12:55 | 11/07/22 14:09 | 1 |
| Endosulfan sulfate | ND | *3 | 0.098 | ug/L | | 11/03/22 12:55 | 11/07/22 14:09 | 1 |
| Endrin | ND | *3 | 0.098 | ug/L | | 11/03/22 12:55 | 11/07/22 14:09 | 1 |
| Endrin aldehyde | ND | *3 | 0.098 | ug/L | | 11/03/22 12:55 | 11/07/22 14:09 | 1 |
| EPTC | ND | *3 | 0.098 | ug/L | | 11/03/22 12:55 | 11/07/22 14:09 | 1 |
| Fluoranthene | ND | *1 *3 | 0.098 | ug/L | | 11/03/22 12:55 | 11/07/22 14:09 | 1 |
| Fluorene | ND | *3 | 0.049 | ug/L | | 11/03/22 12:55 | 11/07/22 14:09 | 1 |
| gamma-Chlordane | ND | *3 | 0.049 | ug/L | | 11/03/22 12:55 | 11/07/22 14:09 | 1 |
| Heptachlor | ND | *3 | 0.039 | ug/L | | 11/03/22 12:55 | 11/07/22 14:09 | 1 |
| Heptachlor epoxide (isomer B) | ND | *3 | 0.049 | ug/L | | 11/03/22 12:55 | 11/07/22 14:09 | 1 |
| Hexachlorobenzene | ND | *3 | 0.049 | ug/L | | 11/03/22 12:55 | 11/07/22 14:09 | 1 |
| Hexachlorocyclopentadiene | ND | *3 | 0.049 | ug/L | | 11/03/22 12:55 | 11/07/22 14:09 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | *3 | 0.049 | ug/L | | 11/03/22 12:55 | 11/07/22 14:09 | 1 |
| Isophorone | ND | *3 | 0.49 | ug/L | | 11/03/22 12:55 | 11/07/22 14:09 | 1 |
| Lindane | ND | *3 | 0.039 | ug/L | | 11/03/22 12:55 | 11/07/22 14:09 | 1 |
| Malathion | ND | *3 | 0.098 | ug/L | | 11/03/22 12:55 | 11/07/22 14:09 | 1 |
| Methoxychlor | ND | *3 | 0.098 | ug/L | | 11/03/22 12:55 | 11/07/22 14:09 | 1 |
| Metolachlor | ND | *3 | 0.049 | ug/L | | 11/03/22 12:55 | 11/07/22 14:09 | 1 |
| Metribuzin | ND | ^3+ *3 | 0.049 | ug/L | | 11/03/22 12:55 | 11/07/22 14:09 | 1 |
| Molinatate | ND | *3 | 0.098 | ug/L | | 11/03/22 12:55 | 11/07/22 14:09 | 1 |
| Naphthalene | ND | *3 | 0.29 | ug/L | | 11/03/22 12:55 | 11/07/22 14:09 | 1 |

Eurofins Eaton Monrovia

Client Sample Results

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

Job ID: 380-26568-1

Client Sample ID: AIEA GULCH WELLS PUMP 2

Lab Sample ID: 380-26568-3

Date Collected: 10/31/22 10:38

Matrix: Drinking Water

Date Received: 11/01/22 10:00

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------------|-----------|-----------|----------|------|---|----------------|----------------|---------|
| Parathion | ND | *3 | 0.098 | ug/L | | 11/03/22 12:55 | 11/07/22 14:09 | 1 |
| Pendimethalin (Penoxaline) | ND | *3 | 0.098 | ug/L | | 11/03/22 12:55 | 11/07/22 14:09 | 1 |
| Total Permethrin (mixed isomers) | ND | | 0.20 | ug/L | | 11/03/22 12:55 | 11/07/22 14:09 | 1 |
| Phenanthrene | ND | *3 | 0.039 | ug/L | | 11/03/22 12:55 | 11/07/22 14:09 | 1 |
| Propachlor | ND | ^3+ *3 | 0.049 | ug/L | | 11/03/22 12:55 | 11/07/22 14:09 | 1 |
| Pyrene | ND | *3 | 0.049 | ug/L | | 11/03/22 12:55 | 11/07/22 14:09 | 1 |
| Simazine | ND | ^3+ *3 | 0.049 | ug/L | | 11/03/22 12:55 | 11/07/22 14:09 | 1 |
| Terbacil | ND | *3 | 0.098 | ug/L | | 11/03/22 12:55 | 11/07/22 14:09 | 1 |
| Terbutylazine | ND | ^3+ *3 | 0.098 | ug/L | | 11/03/22 12:55 | 11/07/22 14:09 | 1 |
| Thiobencarb | ND | *3 | 0.20 | ug/L | | 11/03/22 12:55 | 11/07/22 14:09 | 1 |
| trans-Nonachlor | ND | *3 | 0.049 | ug/L | | 11/03/22 12:55 | 11/07/22 14:09 | 1 |
| Trifluralin | ND | *3 | 0.098 | ug/L | | 11/03/22 12:55 | 11/07/22 14:09 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 2-Nitro-m-xylene | 87522 | S1+ *3 | 70 - 130 | | | 11/03/22 12:55 | 11/07/22 14:09 | 1 |
| Triphenylphosphate | 4544 | S1+ *3 | 70 - 130 | | | 11/03/22 12:55 | 11/07/22 14:09 | 1 |
| Perylene-d12 | 103 | *3 | 70 - 130 | | | 11/03/22 12:55 | 11/07/22 14:09 | 1 |

Method: 625 PAH Physis LL (EAL) + TICs - EPA 625 Base/Neutral and Acid Organics i

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------|--------|-----------|-------|-------|------|---|----------------|----------------|---------|
| 1-Methylnaphthalene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/15/22 14:12 | 1 |
| 1-Methylnaphthalene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/16/22 09:57 | 1 |
| 1-Methylphenanthrene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/15/22 14:12 | 1 |
| 1-Methylphenanthrene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/16/22 09:57 | 1 |
| 2,3,5-Trimethylnaphthalene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/15/22 14:12 | 1 |
| 2,3,5-Trimethylnaphthalene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/16/22 09:57 | 1 |
| 2,6-Dimethylnaphthalene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/15/22 14:12 | 1 |
| 2,6-Dimethylnaphthalene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/16/22 09:57 | 1 |
| 2-Methylnaphthalene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/15/22 14:12 | 1 |
| 2-Methylnaphthalene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/16/22 09:57 | 1 |
| Acenaphthene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/15/22 14:12 | 1 |
| Acenaphthene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/16/22 09:57 | 1 |
| Acenaphthylene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/15/22 14:12 | 1 |
| Acenaphthylene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/16/22 09:57 | 1 |
| Anthracene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/15/22 14:12 | 1 |
| Anthracene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/16/22 09:57 | 1 |
| Benz[a]anthracene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/15/22 14:12 | 1 |
| Benz[a]anthracene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/16/22 09:57 | 1 |
| Benzo[a]pyrene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/15/22 14:12 | 1 |
| Benzo[a]pyrene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/16/22 09:57 | 1 |
| Benzo[b]fluoranthene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/15/22 14:12 | 1 |
| Benzo[b]fluoranthene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/16/22 09:57 | 1 |
| Benzo[e]pyrene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/15/22 14:12 | 1 |
| Benzo[e]pyrene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/16/22 09:57 | 1 |
| Benzo[g,h,i]perylene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/15/22 14:12 | 1 |
| Benzo[g,h,i]perylene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/16/22 09:57 | 1 |
| Benzo[k]fluoranthene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/15/22 14:12 | 1 |
| Benzo[k]fluoranthene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/16/22 09:57 | 1 |
| Biphenyl | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/15/22 14:12 | 1 |
| Biphenyl | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/16/22 09:57 | 1 |

Eurofins Eaton Monrovia

Client Sample Results

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

Job ID: 380-26568-1

Client Sample ID: AIEA GULCH WELLS PUMP 2

Lab Sample ID: 380-26568-3

Date Collected: 10/31/22 10:38

Matrix: Drinking Water

Date Received: 11/01/22 10:00

Method: 625 PAH Physis LL (EAL) + TICs - EPA 625 Base/Neutral and Acid Organics i (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-------|-------|------|---|----------------|----------------|---------|
| Chrysene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/15/22 14:12 | 1 |
| Chrysene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/16/22 09:57 | 1 |
| Dibenz[a,h]anthracene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/15/22 14:12 | 1 |
| Dibenz[a,h]anthracene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/16/22 09:57 | 1 |
| Dibenzo[a,l]pyrene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/15/22 14:12 | 1 |
| Dibenzo[a,l]pyrene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/16/22 09:57 | 1 |
| Dibenzothiophene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/15/22 14:12 | 1 |
| Dibenzothiophene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/16/22 09:57 | 1 |
| Disalicylidenepropanediamine | ND | | 0.1 | 0.05 | µg/L | | 11/03/22 00:00 | 11/15/22 14:12 | 1 |
| Disalicylidenepropanediamine | ND | | 0.1 | 0.05 | µg/L | | 11/03/22 00:00 | 11/16/22 09:57 | 1 |
| Fluoranthene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/15/22 14:12 | 1 |
| Fluoranthene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/16/22 09:57 | 1 |
| Fluorene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/15/22 14:12 | 1 |
| Fluorene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/16/22 09:57 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/15/22 14:12 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/16/22 09:57 | 1 |
| Naphthalene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/15/22 14:12 | 1 |
| Naphthalene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/16/22 09:57 | 1 |
| Perylene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/15/22 14:12 | 1 |
| Perylene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/16/22 09:57 | 1 |
| Phenanthrene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/15/22 14:12 | 1 |
| Phenanthrene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/16/22 09:57 | 1 |
| Pyrene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/15/22 14:12 | 1 |
| Pyrene | ND | | 0.005 | 0.001 | µg/L | | 11/03/22 00:00 | 11/16/22 09:57 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|--------------------|-----------|-----------|----------|----------------|----------------|---------|
| (d10-Acenaphthene) | 75 | | 45 - 118 | 11/03/22 00:00 | 11/15/22 14:12 | 1 |
| (d10-Acenaphthene) | 61 | | 45 - 118 | 11/03/22 00:00 | 11/16/22 09:57 | 1 |
| (d10-Phenanthrene) | 88 | | 56 - 123 | 11/03/22 00:00 | 11/15/22 14:12 | 1 |
| (d10-Phenanthrene) | 69 | | 56 - 123 | 11/03/22 00:00 | 11/16/22 09:57 | 1 |
| (d12-Chrysene) | 103 | | 36 - 142 | 11/03/22 00:00 | 11/15/22 14:12 | 1 |
| (d12-Chrysene) | 92 | | 36 - 142 | 11/03/22 00:00 | 11/16/22 09:57 | 1 |
| (d12-Perylene) | 82 | | 36 - 161 | 11/03/22 00:00 | 11/15/22 14:12 | 1 |
| (d12-Perylene) | 81 | | 36 - 161 | 11/03/22 00:00 | 11/16/22 09:57 | 1 |
| (d8-Naphthalene) | 65 | | 20 - 112 | 11/03/22 00:00 | 11/15/22 14:12 | 1 |
| (d8-Naphthalene) | 39 | | 20 - 112 | 11/03/22 00:00 | 11/16/22 09:57 | 1 |

Method: 8015 Gas (Purgeable) LL (EAL) - SW846 8015B Gasoline Range Organics

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-------|-----|------|---|----------|----------------|---------|
| GASOLINE | ND | U | 0.020 | | mg/L | | | 11/03/22 18:42 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|--------------------|-----------|-----------|----------|----------|----------------|---------|
| BROMOFLUOROBENZENE | 97 | | 60 - 140 | | 11/03/22 18:42 | 1 |

Method: 8015 LL DRO/MRO/JP5/JP8 - 8015 - TPH DRO/ORO

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|-------|-----|------|---|----------|----------------|---------|
| DIESEL | ND | U | 0.025 | | mg/L | | | 11/11/22 18:27 | 1 |
| JP5 | ND | U | 0.050 | | mg/L | | | 11/11/22 18:27 | 1 |
| JP8 | ND | U | 0.050 | | mg/L | | | 11/11/22 18:27 | 1 |
| MOTOR OIL | ND | U | 0.050 | | mg/L | | | 11/11/22 18:27 | 1 |

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Client Sample Results

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

Job ID: 380-26568-1

Client Sample ID: AIEA GULCH WELLS PUMP 2

Lab Sample ID: 380-26568-3

Date Collected: 10/31/22 10:38

Matrix: Drinking Water

Date Received: 11/01/22 10:00

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|--------------|-----------|-----------|----------|----------|----------------|---------|
| BROMOBENZENE | 116 | | 60 - 130 | | 11/11/22 18:27 | 1 |
| HEXACOSANE | 97 | | 60 - 130 | | 11/11/22 18:27 | 1 |

Client Sample ID: TB AIEA GULCH WELLS PUMP1

Lab Sample ID: 380-26568-4

Date Collected: 10/31/22 10:24

Matrix: Drinking Water

Date Received: 11/01/22 10:00

Method: 8015 Gas (Purgeable) LL (EAL) - SW846 8015B Gasoline Range Organics

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-------|-----|------|---|----------|----------------|---------|
| GASOLINE | ND | U | 0.020 | | mg/L | | | 11/03/22 19:18 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|--------------------|-----------|-----------|----------|----------|----------------|---------|
| BROMOFLUOROBENZENE | 91 | | 60 - 140 | | 11/03/22 19:18 | 1 |

Client Sample ID: TB AIEA GULCH WELLS PUMP2

Lab Sample ID: 380-26568-5

Date Collected: 10/31/22 10:38

Matrix: Drinking Water

Date Received: 11/01/22 10:00

Method: 8015 Gas (Purgeable) LL (EAL) - SW846 8015B Gasoline Range Organics

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-------|-----|------|---|----------|----------------|---------|
| GASOLINE | ND | U | 0.020 | | mg/L | | | 11/03/22 19:55 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|--------------------|-----------|-----------|----------|----------|----------------|---------|
| BROMOFLUOROBENZENE | 95 | | 60 - 140 | | 11/03/22 19:55 | 1 |

Client Sample ID: TB AIEA WELLS PUMP 1&2 (260)

Lab Sample ID: 380-26568-6

Date Collected: 10/31/22 10:03

Matrix: Drinking Water

Date Received: 11/01/22 10:00

Method: 8015 Gas (Purgeable) LL (EAL) - SW846 8015B Gasoline Range Organics

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-------|-----|------|---|----------|----------------|---------|
| GASOLINE | ND | U | 0.020 | | mg/L | | | 11/03/22 20:31 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|--------------------|-----------|-----------|----------|----------|----------------|---------|
| BROMOFLUOROBENZENE | 94 | | 60 - 140 | | 11/03/22 20:31 | 1 |

Action Limit Summary

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

Job ID: 380-26568-1

Client Sample ID: AIEA GULCH WELLS PUMP 1

Lab Sample ID: 380-26568-1

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 | Limit | RL | Method | Prep Type |
|-------------------------------|--------|-----------|------|-------|-------|--------|-----------|
| Alachlor | ND | | ug/L | 2 | 0.049 | 525.2 | Total/NA |
| Atrazine | ND | | ug/L | 3 | 0.049 | 525.2 | Total/NA |
| Benzo[a]pyrene | ND | | ug/L | 0.2 | 0.020 | 525.2 | Total/NA |
| Di(2-ethylhexyl)adipate | ND | B | ug/L | 400 | 0.59 | 525.2 | Total/NA |
| Bis(2-ethylhexyl) phthalate | ND | | ug/L | 6 | 0.59 | 525.2 | Total/NA |
| Endrin | ND | | ug/L | 2 | 0.098 | 525.2 | Total/NA |
| Heptachlor | ND | | ug/L | 0.4 | 0.039 | 525.2 | Total/NA |
| Heptachlor epoxide (isomer B) | ND | | ug/L | 0.2 | 0.049 | 525.2 | Total/NA |
| Hexachlorobenzene | ND | | ug/L | 1 | 0.049 | 525.2 | Total/NA |
| Hexachlorocyclopentadiene | ND | | ug/L | 50 | 0.049 | 525.2 | Total/NA |
| Lindane | ND | | ug/L | 0.2 | 0.039 | 525.2 | Total/NA |
| Methoxychlor | ND | | ug/L | 40 | 0.098 | 525.2 | Total/NA |
| Simazine | ND | | ug/L | 4 | 0.049 | 525.2 | Total/NA |

Client Sample ID: AIEA WELLS PUMPS 1&2 (260)

Lab Sample ID: 380-26568-2

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 | Limit | RL | Method | Prep Type |
|-------------------------------|--------|-----------|------|-------|-------|--------|-----------|
| Alachlor | ND | | ug/L | 2 | 0.049 | 525.2 | Total/NA |
| Atrazine | ND | ^3+ | ug/L | 3 | 0.049 | 525.2 | Total/NA |
| Benzo[a]pyrene | ND | | ug/L | 0.2 | 0.020 | 525.2 | Total/NA |
| Di(2-ethylhexyl)adipate | ND | | ug/L | 400 | 0.59 | 525.2 | Total/NA |
| Bis(2-ethylhexyl) phthalate | ND | | ug/L | 6 | 0.59 | 525.2 | Total/NA |
| Endrin | ND | | ug/L | 2 | 0.098 | 525.2 | Total/NA |
| Heptachlor | ND | | ug/L | 0.4 | 0.039 | 525.2 | Total/NA |
| Heptachlor epoxide (isomer B) | ND | | ug/L | 0.2 | 0.049 | 525.2 | Total/NA |
| Hexachlorobenzene | ND | | ug/L | 1 | 0.049 | 525.2 | Total/NA |
| Hexachlorocyclopentadiene | ND | | ug/L | 50 | 0.049 | 525.2 | Total/NA |
| Lindane | ND | | ug/L | 0.2 | 0.039 | 525.2 | Total/NA |
| Methoxychlor | ND | | ug/L | 40 | 0.098 | 525.2 | Total/NA |
| Simazine | ND | ^3+ | ug/L | 4 | 0.049 | 525.2 | Total/NA |

Client Sample ID: AIEA GULCH WELLS PUMP 2

Lab Sample ID: 380-26568-3

Compliance Check

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

| Analyte | Result | Qualifier | Unit | Limit | RL | Method | Prep Type |
|-----------------------------|--------|-----------|------|-------|-------|--------|-----------|
| Alachlor | ND | *3 | ug/L | 2 | 0.049 | 525.2 | Total/NA |
| Atrazine | ND | ^3+ *3 | ug/L | 3 | 0.049 | 525.2 | Total/NA |
| Benzo[a]pyrene | ND | *3 | ug/L | 0.2 | 0.020 | 525.2 | Total/NA |
| Di(2-ethylhexyl)adipate | ND | *3 | ug/L | 400 | 0.59 | 525.2 | Total/NA |
| Bis(2-ethylhexyl) phthalate | ND | *3 | ug/L | 6 | 0.59 | 525.2 | Total/NA |

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Action Limit Summary

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

Job ID: 380-26568-1

Client Sample ID: AIEA GULCH WELLS PUMP 2 (Continued)

Lab Sample ID: 380-26568-3

Compliance Check

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

| Analyte | Result | Qualifier | Unit | Limit | RL | Method | Prep Type |
|-------------------------------|--------|-----------|------|-------|-------|--------|-----------|
| Endrin | ND | *3 | ug/L | 2 | 0.098 | 525.2 | Total/NA |
| Heptachlor | ND | *3 | ug/L | 0.4 | 0.039 | 525.2 | Total/NA |
| Heptachlor epoxide (isomer B) | ND | *3 | ug/L | 0.2 | 0.049 | 525.2 | Total/NA |
| Hexachlorobenzene | ND | *3 | ug/L | 1 | 0.049 | 525.2 | Total/NA |
| Hexachlorocyclopentadiene | ND | *3 | ug/L | 50 | 0.049 | 525.2 | Total/NA |
| Lindane | ND | *3 | ug/L | 0.2 | 0.039 | 525.2 | Total/NA |
| Methoxychlor | ND | *3 | ug/L | 40 | 0.098 | 525.2 | Total/NA |
| Simazine | ND | ^3+ *3 | ug/L | 4 | 0.049 | 525.2 | Total/NA |

Surrogate Summary

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

Job ID: 380-26568-1

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

Matrix: Drinking Water

Prep Type: Total/NA

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) | | |
|----------------|----------------------------|--|-----------------|-----------------|
| | | 2NMX (70-130) | TPP (70-130) | PRY (70-130) |
| 380-26568-1 | AIEA GULCH WELLS PUMP 1 | 98 | 93 | 97 |
| 380-26568-2 | AIEA WELLS PUMPS 1&2 (260) | 100 | 96 | 91 |
| 380-26568-3 | AIEA GULCH WELLS PUMP 2 | 87522 S1+ *3 | 4544 S1+ *3 | 103 *3 |
| 380-26568-3 DU | AIEA GULCH WELLS PUMP 2 | 92911 S1+ *3 | 4997 S1+ *3 | 107 *3 |

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

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

Matrix: Water

Prep Type: Total/NA

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) | | |
|---------------------|------------------------|--|-----------------|-----------------|
| | | 2NMX (70-130) | TPP (70-130) | PRY (70-130) |
| 380-26984-B-1-A MS | Matrix Spike | 97 | 102 | 97 |
| 380-26984-B-3-A DU | Duplicate | 97 | 97 | 97 |
| 380-26348-AS-1-A MS | Matrix Spike | 98 | 96 | 92 |
| LCS 380-23097/3-A | Lab Control Sample | 96 | 93 | 93 |
| LCS 380-23750/3-A | Lab Control Sample | 97 | 101 | 94 |
| LCSD 380-23097/4-A | Lab Control Sample Dup | 101 | 98 | 92 |
| LCSD 380-23750/4-A | Lab Control Sample Dup | 97 | 99 | 87 |
| MB 380-23097/1-A | Method Blank | 98 | 90 | 85 |
| MB 380-23750/1-A | Method Blank | 97 | 98 | 94 |
| MRL 380-23097/2-A | Lab Control Sample | 94 | 104 | 103 |
| MRL 380-23750/2-A | Lab Control Sample | 97 | 99 | 93 |

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

Method: 625 PAH Physis LL (EAL) + TICs - EPA 625 Base/Neutral and Acid Organics i

Matrix: BlankMatrix

Prep Type: Total/NA

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) | | | | |
|---------------|------------------------|--|----------------------|-----------------|-----------------|-----------------|
| | | Acenaphtl (27-133) | Phenanth (43-129) | CRY (52-144) | NPT (25-125) | PRY (36-161) |
| 101199-B1 | Method Blank | 84 | 85 | 111 | 59 | 87 |
| 101199-BS1 | Lab Control Sample | 86 | 94 | 89 | 69 | 90 |
| 101199-BS2 | Lab Control Sample Dup | 81 | 91 | 89 | 72 | 88 |

Surrogate Legend
 (d10-Acenaphthene) = (d10-Acenaphthene)
 (d10-Phenanthrene) = (d10-Phenanthrene)
 CRY = (d12-Chrysene)
 NPT = (d8-Naphthalene)
 PRY = (d12-Perylene)

Surrogate Summary

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

Job ID: 380-26568-1

Method: 625 PAH Physis LL (EAL) + TICs - EPA 625 Base/Neutral and Acid Organics i

Matrix: Drinking Water

Prep Type: Total/NA

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) | | | | |
|---------------|----------------------------|--|----------------------|-----------------|-----------------|-----------------|
| | | Acenaphtl (45-118) | Phenanth (56-123) | CRY (36-142) | NPT (20-112) | PRY (36-161) |
| 380-26568-1 | AIEA GULCH WELLS PUMP 1 | 75 | 88 | 103 | 65 | 82 |
| 380-26568-1 | AIEA GULCH WELLS PUMP 1 | 61 | 69 | 92 | 39 | 81 |
| 380-26568-2 | AIEA WELLS PUMPS 1&2 (260) | 80 | 86 | 92 | 69 | 78 |
| 380-26568-3 | AIEA GULCH WELLS PUMP 2 | 75 | 88 | 103 | 65 | 82 |
| 380-26568-3 | AIEA GULCH WELLS PUMP 2 | 61 | 69 | 92 | 39 | 81 |

Surrogate Legend

(d10-Acenaphthene) = (d10-Acenaphthene)

(d10-Phenanthrene) = (d10-Phenanthrene)

CRY = (d12-Chrysene)

NPT = (d8-Naphthalene)

PRY = (d12-Perylene)

Method: 8015 Gas (Purgeable) LL (EAL) - SW846 8015B Gasoline Range Organics

Matrix: Drinking Water

Prep Type: Total/NA

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) |
|---------------|---------------------------------|--|
| | | BFB (60-140) |
| 380-26568-1 | AIEA GULCH WELLS PUMP 1 | 83 |
| 380-26568-2 | AIEA WELLS PUMPS 1&2 (260) | 94 |
| 380-26568-3 | AIEA GULCH WELLS PUMP 2 | 97 |
| 380-26568-4 | TB AIEA GULCH WELLS PUMP | 91 |
| 380-26568-5 | TB AIEA GULCH WELLS PUMP | 95 |
| 380-26568-6 | TB AIEA WELLS PUMP 1&2 (260) | 94 |

Surrogate Legend

BFB = BROMOFLUOROBENZENE

Method: 8015 Gas (Purgeable) LL (EAL) - SW846 8015B Gasoline Range Organics

Matrix: WATER

Prep Type: Total/NA

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) |
|---------------|------------------|--|
| | | BFB |
| 22VGH7K03B | Method Blank | |

Surrogate Legend

BFB = BROMOFLUOROBENZENE

Method: 8015 Gas (Purgeable) LL (EAL) - SW846 8015B Gasoline Range Organics

Matrix: WATER

Prep Type: Total/NA

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) |
|---------------|--------------------|--|
| | | BFB (70-130) |
| 22VGH7K03C | LCD | 118 |
| 22VGH7K03L | Lab Control Sample | 119 |

Surrogate Legend

BFB = BROMOFLUOROBENZENE

Surrogate Summary

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

Job ID: 380-26568-1

Method: 8015 Gas (Purgeable) LL (EAL) - SW846 8015B Gasoline Range Organics

Matrix: WATER

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

| Lab Sample ID | Client Sample ID | BFB (60-140) |
|---------------|------------------------|-----------------|
| 22K032-01M | Matrix Spike | 101 |
| 22K032-01S | Matrix Spike Duplicate | 110 |

Surrogate Legend

BFB = BROMOFLUOROBENZENE

Method: 8015 LL DRO/MRO/JP5/JP8 - 8015 - TPH DRO/ORO

Matrix: Drinking Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

| Lab Sample ID | Client Sample ID | BB (60-130) | XACOSAI (60-130) |
|---------------|----------------------------|----------------|---------------------|
| 380-26568-1 | AIEA GULCH WELLS PUMP 1 | 113 | 99 |
| 380-26568-2 | AIEA WELLS PUMPS 1&2 (260) | 123 | 108 |
| 380-26568-3 | AIEA GULCH WELLS PUMP 2 | 116 | 97 |

Surrogate Legend

BB = BROMOBENZENE

HEXACOSANE = HEXACOSANE

Method: 8015 LL DRO/MRO/JP5/JP8 - 8015 - TPH DRO/ORO

Matrix: WATER

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

| Lab Sample ID | Client Sample ID | BB | XACOSAI |
|---------------|------------------|----|---------|
| 22DSK016WB | Method Blank | | |

Surrogate Legend

BB = BROMOBENZENE

HEXACOSANE = HEXACOSANE

Method: 8015 LL DRO/MRO/JP5/JP8 - 8015 - TPH DRO/ORO

Matrix: WATER

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

| Lab Sample ID | Client Sample ID | BB (60-130) | XACOSAI (60-130) |
|---------------|--------------------|----------------|---------------------|
| 22DSK016WC | LCD | 101 | 103 |
| 22DSK016WL | Lab Control Sample | 101 | 105 |
| 22J5K016WC | LCD | 97 | 94 |
| 22J5K016WL | Lab Control Sample | 99 | 106 |
| 22J8K016WC | LCD | 93 | 88 |
| 22J8K016WL | Lab Control Sample | 95 | 105 |

Surrogate Legend

BB = BROMOBENZENE

HEXACOSANE = HEXACOSANE

QC Sample Results

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

Job ID: 380-26568-1

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

Lab Sample ID: MB 380-23097/1-A
Matrix: Water
Analysis Batch: 23432

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 23097

| Analyte | MB Result | MB Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------------|--------------|-----------------|-------|------|---|----------------|----------------|---------|
| 2,4'-DDD | ND | | 0.099 | ug/L | | 11/03/22 12:55 | 11/07/22 12:09 | 1 |
| 2,4'-DDE | ND | | 0.099 | ug/L | | 11/03/22 12:55 | 11/07/22 12:09 | 1 |
| 2,4'-DDT | ND | | 0.099 | ug/L | | 11/03/22 12:55 | 11/07/22 12:09 | 1 |
| 2,4-Dinitrotoluene | ND | | 0.099 | ug/L | | 11/03/22 12:55 | 11/07/22 12:09 | 1 |
| 2,6-Dinitrotoluene | ND | | 0.099 | ug/L | | 11/03/22 12:55 | 11/07/22 12:09 | 1 |
| 4,4'-DDD | ND | | 0.099 | ug/L | | 11/03/22 12:55 | 11/07/22 12:09 | 1 |
| 4,4'-DDE | ND | | 0.099 | ug/L | | 11/03/22 12:55 | 11/07/22 12:09 | 1 |
| 4,4'-DDT | ND | | 0.099 | ug/L | | 11/03/22 12:55 | 11/07/22 12:09 | 1 |
| Acenaphthene | ND | | 0.099 | ug/L | | 11/03/22 12:55 | 11/07/22 12:09 | 1 |
| Acenaphthylene | ND | | 0.099 | ug/L | | 11/03/22 12:55 | 11/07/22 12:09 | 1 |
| Acetochlor | ND | | 0.099 | ug/L | | 11/03/22 12:55 | 11/07/22 12:09 | 1 |
| Alachlor | ND | | 0.049 | ug/L | | 11/03/22 12:55 | 11/07/22 12:09 | 1 |
| alpha-BHC | ND | | 0.099 | ug/L | | 11/03/22 12:55 | 11/07/22 12:09 | 1 |
| alpha-Chlordane | ND | | 0.049 | ug/L | | 11/03/22 12:55 | 11/07/22 12:09 | 1 |
| Anthracene | ND | | 0.020 | ug/L | | 11/03/22 12:55 | 11/07/22 12:09 | 1 |
| Atrazine | ND | | 0.049 | ug/L | | 11/03/22 12:55 | 11/07/22 12:09 | 1 |
| Benz(a)anthracene | ND | | 0.049 | ug/L | | 11/03/22 12:55 | 11/07/22 12:09 | 1 |
| Benzo[a]pyrene | ND | | 0.020 | ug/L | | 11/03/22 12:55 | 11/07/22 12:09 | 1 |
| Benzo[b]fluoranthene | ND | | 0.020 | ug/L | | 11/03/22 12:55 | 11/07/22 12:09 | 1 |
| Benzo[g,h,i]perylene | ND | | 0.049 | ug/L | | 11/03/22 12:55 | 11/07/22 12:09 | 1 |
| Benzo[k]fluoranthene | ND | | 0.020 | ug/L | | 11/03/22 12:55 | 11/07/22 12:09 | 1 |
| beta-BHC | ND | | 0.099 | ug/L | | 11/03/22 12:55 | 11/07/22 12:09 | 1 |
| Bromacil | ND | | 0.099 | ug/L | | 11/03/22 12:55 | 11/07/22 12:09 | 1 |
| Butachlor | ND | | 0.049 | ug/L | | 11/03/22 12:55 | 11/07/22 12:09 | 1 |
| Butylbenzylphthalate | ND | | 0.49 | ug/L | | 11/03/22 12:55 | 11/07/22 12:09 | 1 |
| Caffeine | ND | | 0.049 | ug/L | | 11/03/22 12:55 | 11/07/22 12:09 | 1 |
| Chlorobenzilate | ND | | 0.099 | ug/L | | 11/03/22 12:55 | 11/07/22 12:09 | 1 |
| Chloroneb | ND | | 0.099 | ug/L | | 11/03/22 12:55 | 11/07/22 12:09 | 1 |
| Chlorothalonil (Draconil, Bravo) | ND | | 0.099 | ug/L | | 11/03/22 12:55 | 11/07/22 12:09 | 1 |
| Chlorpyrifos | ND | | 0.049 | ug/L | | 11/03/22 12:55 | 11/07/22 12:09 | 1 |
| Chrysene | ND | | 0.020 | ug/L | | 11/03/22 12:55 | 11/07/22 12:09 | 1 |
| delta-BHC | ND | | 0.099 | ug/L | | 11/03/22 12:55 | 11/07/22 12:09 | 1 |
| Di(2-ethylhexyl)adipate | ND | | 0.59 | ug/L | | 11/03/22 12:55 | 11/07/22 12:09 | 1 |
| Bis(2-ethylhexyl) phthalate | ND | | 0.59 | ug/L | | 11/03/22 12:55 | 11/07/22 12:09 | 1 |
| Diazinon (Qualitative) | ND | | 0.099 | ug/L | | 11/03/22 12:55 | 11/07/22 12:09 | 1 |
| Dibenz(a,h)anthracene | ND | | 0.049 | ug/L | | 11/03/22 12:55 | 11/07/22 12:09 | 1 |
| Diclorvos (DDVP) | ND | | 0.049 | ug/L | | 11/03/22 12:55 | 11/07/22 12:09 | 1 |
| Dieldrin | ND | | 0.20 | ug/L | | 11/03/22 12:55 | 11/07/22 12:09 | 1 |
| Diethylphthalate | ND | | 0.49 | ug/L | | 11/03/22 12:55 | 11/07/22 12:09 | 1 |
| Dimethoate | ND | | 0.099 | ug/L | | 11/03/22 12:55 | 11/07/22 12:09 | 1 |
| Dimethylphthalate | ND | | 0.49 | ug/L | | 11/03/22 12:55 | 11/07/22 12:09 | 1 |
| Di-n-butyl phthalate | ND | | 0.99 | ug/L | | 11/03/22 12:55 | 11/07/22 12:09 | 1 |
| Di-n-octyl phthalate | ND | | 0.099 | ug/L | | 11/03/22 12:55 | 11/07/22 12:09 | 1 |
| Endosulfan I (Alpha) | ND | | 0.099 | ug/L | | 11/03/22 12:55 | 11/07/22 12:09 | 1 |
| Endosulfan II (Beta) | ND | | 0.099 | ug/L | | 11/03/22 12:55 | 11/07/22 12:09 | 1 |
| Endosulfan sulfate | ND | | 0.099 | ug/L | | 11/03/22 12:55 | 11/07/22 12:09 | 1 |
| Endrin | ND | | 0.099 | ug/L | | 11/03/22 12:55 | 11/07/22 12:09 | 1 |
| Endrin aldehyde | ND | | 0.099 | ug/L | | 11/03/22 12:55 | 11/07/22 12:09 | 1 |

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QC Sample Results

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

Job ID: 380-26568-1

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

Lab Sample ID: MB 380-23097/1-A
Matrix: Water
Analysis Batch: 23432

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 23097

| Analyte | MB Result | MB Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------------|-----------|--------------|-------|------|---|----------------|----------------|---------|
| EPTC | ND | | 0.099 | ug/L | | 11/03/22 12:55 | 11/07/22 12:09 | 1 |
| Fluoranthene | ND | | 0.099 | ug/L | | 11/03/22 12:55 | 11/07/22 12:09 | 1 |
| Fluorene | ND | | 0.049 | ug/L | | 11/03/22 12:55 | 11/07/22 12:09 | 1 |
| gamma-Chlordane | ND | | 0.049 | ug/L | | 11/03/22 12:55 | 11/07/22 12:09 | 1 |
| Heptachlor | ND | | 0.039 | ug/L | | 11/03/22 12:55 | 11/07/22 12:09 | 1 |
| Heptachlor epoxide (isomer B) | ND | | 0.049 | ug/L | | 11/03/22 12:55 | 11/07/22 12:09 | 1 |
| Hexachlorobenzene | ND | | 0.049 | ug/L | | 11/03/22 12:55 | 11/07/22 12:09 | 1 |
| Hexachlorocyclopentadiene | ND | | 0.049 | ug/L | | 11/03/22 12:55 | 11/07/22 12:09 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 0.049 | ug/L | | 11/03/22 12:55 | 11/07/22 12:09 | 1 |
| Isophorone | ND | | 0.49 | ug/L | | 11/03/22 12:55 | 11/07/22 12:09 | 1 |
| Lindane | ND | | 0.039 | ug/L | | 11/03/22 12:55 | 11/07/22 12:09 | 1 |
| Malathion | ND | | 0.099 | ug/L | | 11/03/22 12:55 | 11/07/22 12:09 | 1 |
| Methoxychlor | ND | | 0.099 | ug/L | | 11/03/22 12:55 | 11/07/22 12:09 | 1 |
| Metolachlor | ND | | 0.049 | ug/L | | 11/03/22 12:55 | 11/07/22 12:09 | 1 |
| Metribuzin | ND | | 0.049 | ug/L | | 11/03/22 12:55 | 11/07/22 12:09 | 1 |
| Molinate | ND | | 0.099 | ug/L | | 11/03/22 12:55 | 11/07/22 12:09 | 1 |
| Naphthalene | ND | | 0.30 | ug/L | | 11/03/22 12:55 | 11/07/22 12:09 | 1 |
| Parathion | ND | | 0.099 | ug/L | | 11/03/22 12:55 | 11/07/22 12:09 | 1 |
| Pendimethalin (Penoxaline) | ND | | 0.099 | ug/L | | 11/03/22 12:55 | 11/07/22 12:09 | 1 |
| Total Permethrin (mixed isomers) | ND | | 0.20 | ug/L | | 11/03/22 12:55 | 11/07/22 12:09 | 1 |
| Phenanthrene | ND | | 0.039 | ug/L | | 11/03/22 12:55 | 11/07/22 12:09 | 1 |
| Propachlor | ND | | 0.049 | ug/L | | 11/03/22 12:55 | 11/07/22 12:09 | 1 |
| Pyrene | ND | | 0.049 | ug/L | | 11/03/22 12:55 | 11/07/22 12:09 | 1 |
| Simazine | ND | | 0.049 | ug/L | | 11/03/22 12:55 | 11/07/22 12:09 | 1 |
| Terbacil | ND | | 0.099 | ug/L | | 11/03/22 12:55 | 11/07/22 12:09 | 1 |
| Terbutylazine | ND | | 0.099 | ug/L | | 11/03/22 12:55 | 11/07/22 12:09 | 1 |
| Thiobencarb | ND | | 0.20 | ug/L | | 11/03/22 12:55 | 11/07/22 12:09 | 1 |
| trans-Nonachlor | ND | | 0.049 | ug/L | | 11/03/22 12:55 | 11/07/22 12:09 | 1 |
| Trifluralin | ND | | 0.099 | ug/L | | 11/03/22 12:55 | 11/07/22 12:09 | 1 |

| <i>Tentatively Identified Compound</i> | MB Est. Result | MB Qualifier | Unit | D | RT | CAS No. | Prepared | Analyzed | Dil Fac |
|--|----------------|--------------|------|---|----|---------|----------------|----------------|---------|
| <i>Tentatively Identified Compound</i> | None | | ug/L | | | | 11/03/22 12:55 | 11/07/22 12:09 | 1 |

| <i>Surrogate</i> | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---------------------------|--------------|--------------|----------|----------------|----------------|---------|
| <i>2-Nitro-m-xylene</i> | 98 | | 70 - 130 | 11/03/22 12:55 | 11/07/22 12:09 | 1 |
| <i>Triphenylphosphate</i> | 90 | | 70 - 130 | 11/03/22 12:55 | 11/07/22 12:09 | 1 |
| <i>Perylene-d12</i> | 85 | | 70 - 130 | 11/03/22 12:55 | 11/07/22 12:09 | 1 |

Lab Sample ID: LCS 380-23097/3-A
Matrix: Water
Analysis Batch: 23432

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 23097

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|--------------------|-------------|------------|---------------|------|---|------|-------------|
| 2,4'-DDD | 1.97 | 2.22 | | ug/L | | 113 | 70 - 130 |
| 2,4'-DDE | 1.97 | 2.15 | | ug/L | | 109 | 70 - 130 |
| 2,4'-DDT | 1.97 | 2.31 | | ug/L | | 117 | 70 - 130 |
| 2,4-Dinitrotoluene | 1.97 | 1.99 | | ug/L | | 101 | 70 - 130 |
| 2,6-Dinitrotoluene | 1.97 | 1.85 | | ug/L | | 94 | 70 - 130 |

Eurofins Eaton Monrovia

QC Sample Results

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

Job ID: 380-26568-1

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

Lab Sample ID: LCS 380-23097/3-A

Matrix: Water

Analysis Batch: 23432

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 23097

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------------------------------|-------------|------------|---------------|------|---|------|-------------|
| 4,4'-DDD | 1.97 | 2.31 | | ug/L | | 117 | 70 - 130 |
| 4,4'-DDE | 1.97 | 1.99 | | ug/L | | 101 | 70 - 130 |
| 4,4'-DDT | 1.97 | 2.06 | | ug/L | | 105 | 70 - 130 |
| Acenaphthene | 1.97 | 1.90 | | ug/L | | 96 | 70 - 130 |
| Acenaphthylene | 1.97 | 1.78 | | ug/L | | 90 | 70 - 130 |
| Acetochlor | 1.97 | 1.96 | | ug/L | | 99 | 70 - 130 |
| Alachlor | 1.97 | 1.99 | | ug/L | | 101 | 70 - 130 |
| alpha-BHC | 1.97 | 2.22 | | ug/L | | 113 | 70 - 130 |
| alpha-Chlordane | 1.97 | 1.92 | | ug/L | | 97 | 70 - 130 |
| Anthracene | 1.97 | 2.18 | | ug/L | | 111 | 70 - 130 |
| Atrazine | 1.97 | 2.27 | | ug/L | | 115 | 70 - 130 |
| Benz(a)anthracene | 1.97 | 2.31 | | ug/L | | 117 | 70 - 130 |
| Benzo[a]pyrene | 1.97 | 2.26 | | ug/L | | 115 | 70 - 130 |
| Benzo[b]fluoranthene | 1.97 | 2.28 | | ug/L | | 116 | 70 - 130 |
| Benzo[g,h,i]perylene | 1.97 | 2.24 | | ug/L | | 114 | 70 - 130 |
| Benzo[k]fluoranthene | 1.97 | 2.36 | | ug/L | | 120 | 70 - 130 |
| beta-BHC | 1.97 | 2.33 | | ug/L | | 118 | 70 - 130 |
| Bromacil | 1.97 | 2.11 | | ug/L | | 107 | 70 - 130 |
| Butachlor | 1.97 | 2.22 | | ug/L | | 113 | 70 - 130 |
| Butylbenzylphthalate | 1.97 | 2.32 | | ug/L | | 118 | 70 - 130 |
| Caffeine | 1.97 | 1.72 | | ug/L | | 87 | 45 - 137 |
| Chlorobenzilate | 1.97 | 2.16 | | ug/L | | 110 | 70 - 130 |
| Chloroneb | 1.97 | 2.24 | | ug/L | | 114 | 70 - 130 |
| Chlorothalonil (Draconil, Bravo) | 1.97 | 2.00 | | ug/L | | 102 | 70 - 130 |
| Chlorpyrifos | 1.97 | 2.47 | | ug/L | | 125 | 70 - 130 |
| Chrysene | 1.97 | 2.20 | | ug/L | | 112 | 70 - 130 |
| delta-BHC | 1.97 | 2.13 | | ug/L | | 108 | 70 - 130 |
| Di(2-ethylhexyl)adipate | 1.97 | 2.18 | | ug/L | | 111 | 70 - 130 |
| Bis(2-ethylhexyl) phthalate | 1.97 | 1.80 | | ug/L | | 91 | 70 - 130 |
| Diazinon (Qualitative) | 1.97 | 2.00 | | ug/L | | 102 | 15 - 132 |
| Dibenz(a,h)anthracene | 1.97 | 2.34 | | ug/L | | 119 | 70 - 130 |
| Diclorvos (DDVP) | 1.97 | 2.16 | | ug/L | | 110 | 70 - 130 |
| Dieldrin | 1.97 | 2.02 | | ug/L | | 103 | 70 - 130 |
| Diethylphthalate | 1.97 | 1.99 | | ug/L | | 101 | 70 - 130 |
| Dimethoate | 1.97 | 1.41 | | ug/L | | 72 | 35 - 100 |
| Dimethylphthalate | 1.97 | 2.02 | | ug/L | | 102 | 70 - 130 |
| Di-n-butyl phthalate | 3.94 | 4.42 | | ug/L | | 112 | 70 - 130 |
| Di-n-octyl phthalate | 1.97 | 1.62 | | ug/L | | 82 | 70 - 130 |
| Endosulfan I (Alpha) | 1.97 | 2.17 | | ug/L | | 110 | 70 - 130 |
| Endosulfan II (Beta) | 1.97 | 2.32 | | ug/L | | 118 | 70 - 130 |
| Endosulfan sulfate | 1.97 | 2.18 | | ug/L | | 110 | 70 - 130 |
| Endrin | 1.97 | 2.18 | | ug/L | | 111 | 70 - 130 |
| Endrin aldehyde | 1.97 | 1.68 | | ug/L | | 86 | 70 - 130 |
| EPTC | 1.97 | 1.99 | | ug/L | | 101 | 70 - 130 |
| Fluoranthene | 1.97 | 2.37 | | ug/L | | 120 | 70 - 130 |
| Fluorene | 1.97 | 2.14 | | ug/L | | 109 | 70 - 130 |
| gamma-Chlordane | 1.97 | 1.96 | | ug/L | | 99 | 70 - 130 |
| Heptachlor | 1.97 | 2.09 | | ug/L | | 106 | 70 - 130 |
| Heptachlor epoxide (isomer B) | 1.97 | 1.84 | | ug/L | | 93 | 70 - 130 |

Eurofins Eaton Monrovia

QC Sample Results

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

Job ID: 380-26568-1

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

Lab Sample ID: LCS 380-23097/3-A
Matrix: Water
Analysis Batch: 23432

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 23097

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------------------------|-------------|------------|---------------|------|---|------|-------------|
| Hexachlorobenzene | 1.97 | 1.99 | | ug/L | | 101 | 70 - 130 |
| Hexachlorocyclopentadiene | 1.97 | 2.08 | | ug/L | | 106 | 70 - 130 |
| Indeno[1,2,3-cd]pyrene | 1.97 | 2.28 | | ug/L | | 116 | 70 - 130 |
| Isophorone | 1.97 | 1.93 | | ug/L | | 98 | 70 - 130 |
| Lindane | 1.97 | 2.29 | | ug/L | | 117 | 70 - 130 |
| Malathion | 1.97 | 2.30 | | ug/L | | 117 | 70 - 130 |
| Methoxychlor | 1.97 | 2.03 | | ug/L | | 103 | 70 - 130 |
| Metolachlor | 1.97 | 2.25 | | ug/L | | 114 | 70 - 130 |
| Metribuzin | 1.97 | 2.06 | | ug/L | | 105 | 70 - 130 |
| Molinate | 1.97 | 2.10 | | ug/L | | 107 | 70 - 130 |
| Naphthalene | 1.97 | 1.97 | | ug/L | | 100 | 70 - 130 |
| Parathion | 1.97 | 2.11 | | ug/L | | 107 | 70 - 130 |
| Pendimethalin (Penoxaline) | 1.97 | 1.97 | | ug/L | | 100 | 70 - 130 |
| Phenanthrene | 1.97 | 2.14 | | ug/L | | 109 | 70 - 130 |
| Propachlor | 1.97 | 2.24 | | ug/L | | 114 | 70 - 130 |
| Pyrene | 1.97 | 2.52 | | ug/L | | 128 | 70 - 130 |
| Simazine | 1.97 | 2.41 | | ug/L | | 122 | 70 - 130 |
| Terbacil | 1.97 | 2.15 | | ug/L | | 109 | 70 - 130 |
| Terbutylazine | 1.97 | 2.27 | | ug/L | | 115 | 70 - 130 |
| Thiobencarb | 1.97 | 2.30 | | ug/L | | 117 | 70 - 130 |
| trans-Nonachlor | 1.97 | 2.50 | | ug/L | | 127 | 70 - 130 |
| Trifluralin | 1.97 | 1.94 | | ug/L | | 98 | 70 - 130 |

| Surrogate | LCS LCS | | Limits |
|--------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 2-Nitro-m-xylene | 96 | | 70 - 130 |
| Triphenylphosphate | 93 | | 70 - 130 |
| Perylene-d12 | 93 | | 70 - 130 |

Lab Sample ID: LCSD 380-23097/4-A
Matrix: Water
Analysis Batch: 23432

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 23097

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec | | RPD |
|--------------------|-------------|-------------|----------------|------|---|------|----------|-----|-----|
| | | | | | | | Limits | RPD | |
| 2,4'-DDD | 1.97 | 2.13 | | ug/L | | 108 | 70 - 130 | 4 | 20 |
| 2,4'-DDE | 1.97 | 1.86 | | ug/L | | 94 | 70 - 130 | 15 | 20 |
| 2,4'-DDT | 1.97 | 2.25 | | ug/L | | 114 | 70 - 130 | 2 | 20 |
| 2,4-Dinitrotoluene | 1.97 | 1.98 | | ug/L | | 100 | 70 - 130 | 1 | 20 |
| 2,6-Dinitrotoluene | 1.97 | 1.87 | | ug/L | | 95 | 70 - 130 | 1 | 20 |
| 4,4'-DDD | 1.97 | 2.29 | | ug/L | | 116 | 70 - 130 | 1 | 20 |
| 4,4'-DDE | 1.97 | 1.92 | | ug/L | | 98 | 70 - 130 | 3 | 20 |
| 4,4'-DDT | 1.97 | 2.01 | | ug/L | | 102 | 70 - 130 | 3 | 20 |
| Acenaphthene | 1.97 | 1.93 | | ug/L | | 98 | 70 - 130 | 2 | 20 |
| Acenaphthylene | 1.97 | 1.85 | | ug/L | | 94 | 70 - 130 | 4 | 20 |
| Acetochlor | 1.97 | 1.93 | | ug/L | | 98 | 70 - 130 | 1 | 20 |
| Alachlor | 1.97 | 2.03 | | ug/L | | 103 | 70 - 130 | 2 | 20 |
| alpha-BHC | 1.97 | 2.22 | | ug/L | | 113 | 70 - 130 | 0 | 20 |
| alpha-Chlordane | 1.97 | 1.76 | | ug/L | | 90 | 70 - 130 | 9 | 20 |
| Anthracene | 1.97 | 2.23 | | ug/L | | 113 | 70 - 130 | 2 | 20 |

Eurofins Eaton Monrovia

QC Sample Results

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

Job ID: 380-26568-1

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

Lab Sample ID: LCSD 380-23097/4-A
Matrix: Water
Analysis Batch: 23432

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 23097

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec | | RPD | RPD Limit |
|----------------------------------|-------------|-------------|----------------|------|---|------|----------|-----|-----|-----------|
| | | | | | | | Limits | RPD | | |
| Atrazine | 1.97 | 2.23 | | ug/L | | 113 | 70 - 130 | 2 | 20 | |
| Benz(a)anthracene | 1.97 | 2.24 | | ug/L | | 114 | 70 - 130 | 3 | 20 | |
| Benzo[a]pyrene | 1.97 | 2.24 | | ug/L | | 114 | 70 - 130 | 1 | 20 | |
| Benzo[b]fluoranthene | 1.97 | 2.26 | | ug/L | | 115 | 70 - 130 | 1 | 20 | |
| Benzo[g,h,i]perylene | 1.97 | 2.27 | | ug/L | | 115 | 70 - 130 | 1 | 20 | |
| Benzo[k]fluoranthene | 1.97 | 2.41 | | ug/L | | 122 | 70 - 130 | 2 | 20 | |
| beta-BHC | 1.97 | 2.28 | | ug/L | | 116 | 70 - 130 | 2 | 20 | |
| Bromacil | 1.97 | 2.14 | | ug/L | | 109 | 70 - 130 | 2 | 20 | |
| Butachlor | 1.97 | 2.14 | | ug/L | | 109 | 70 - 130 | 3 | 20 | |
| Butylbenzylphthalate | 1.97 | 2.31 | | ug/L | | 118 | 70 - 130 | 0 | 20 | |
| Caffeine | 1.97 | 1.51 | | ug/L | | 77 | 45 - 137 | 13 | 20 | |
| Chlorobenzilate | 1.97 | 2.15 | | ug/L | | 109 | 70 - 130 | 0 | 20 | |
| Chloroneb | 1.97 | 2.23 | | ug/L | | 113 | 70 - 130 | 1 | 20 | |
| Chlorothalonil (Draconil, Bravo) | 1.97 | 1.98 | | ug/L | | 101 | 70 - 130 | 1 | 20 | |
| Chlorpyrifos | 1.97 | 2.37 | | ug/L | | 120 | 70 - 130 | 4 | 20 | |
| Chrysene | 1.97 | 2.22 | | ug/L | | 113 | 70 - 130 | 1 | 20 | |
| delta-BHC | 1.97 | 2.09 | | ug/L | | 106 | 70 - 130 | 2 | 20 | |
| Di(2-ethylhexyl)adipate | 1.97 | 2.13 | | ug/L | | 108 | 70 - 130 | 3 | 20 | |
| Bis(2-ethylhexyl) phthalate | 1.97 | 1.84 | | ug/L | | 94 | 70 - 130 | 2 | 20 | |
| Diazinon (Qualitative) | 1.97 | 1.96 | | ug/L | | 100 | 15 - 132 | 2 | 20 | |
| Dibenz(a,h)anthracene | 1.97 | 2.36 | | ug/L | | 120 | 70 - 130 | 1 | 20 | |
| Diclorvos (DDVP) | 1.97 | 2.26 | | ug/L | | 115 | 70 - 130 | 5 | 20 | |
| Dieldrin | 1.97 | 1.92 | | ug/L | | 97 | 70 - 130 | 6 | 20 | |
| Diethylphthalate | 1.97 | 2.03 | | ug/L | | 103 | 70 - 130 | 2 | 20 | |
| Dimethoate | 1.97 | 1.19 | | ug/L | | 61 | 35 - 100 | 17 | 20 | |
| Dimethylphthalate | 1.97 | 2.17 | | ug/L | | 110 | 70 - 130 | 7 | 20 | |
| Di-n-butyl phthalate | 3.94 | 4.45 | | ug/L | | 113 | 70 - 130 | 1 | 20 | |
| Di-n-octyl phthalate | 1.97 | 1.62 | | ug/L | | 82 | 70 - 130 | 0 | 20 | |
| Endosulfan I (Alpha) | 1.97 | 1.97 | | ug/L | | 100 | 70 - 130 | 9 | 20 | |
| Endosulfan II (Beta) | 1.97 | 2.26 | | ug/L | | 115 | 70 - 130 | 3 | 20 | |
| Endosulfan sulfate | 1.97 | 2.12 | | ug/L | | 108 | 70 - 130 | 3 | 20 | |
| Endrin | 1.97 | 2.18 | | ug/L | | 111 | 70 - 130 | 0 | 20 | |
| Endrin aldehyde | 1.97 | 1.72 | | ug/L | | 87 | 70 - 130 | 2 | 20 | |
| EPTC | 1.97 | 1.99 | | ug/L | | 101 | 70 - 130 | 0 | 20 | |
| Fluoranthene | 1.97 | 1.86 | *1 | ug/L | | 95 | 70 - 130 | 24 | 20 | |
| Fluorene | 1.97 | 2.17 | | ug/L | | 110 | 70 - 130 | 1 | 20 | |
| gamma-Chlordane | 1.97 | 1.69 | | ug/L | | 86 | 70 - 130 | 15 | 20 | |
| Heptachlor | 1.97 | 2.02 | | ug/L | | 103 | 70 - 130 | 4 | 20 | |
| Heptachlor epoxide (isomer B) | 1.97 | 1.88 | | ug/L | | 95 | 70 - 130 | 2 | 20 | |
| Hexachlorobenzene | 1.97 | 1.94 | | ug/L | | 98 | 70 - 130 | 3 | 20 | |
| Hexachlorocyclopentadiene | 1.97 | 2.10 | | ug/L | | 107 | 70 - 130 | 1 | 20 | |
| Indeno[1,2,3-cd]pyrene | 1.97 | 2.30 | | ug/L | | 117 | 70 - 130 | 1 | 20 | |
| Isophorone | 1.97 | 2.02 | | ug/L | | 103 | 70 - 130 | 5 | 20 | |
| Lindane | 1.97 | 2.24 | | ug/L | | 114 | 70 - 130 | 2 | 20 | |
| Malathion | 1.97 | 2.33 | | ug/L | | 118 | 70 - 130 | 1 | 20 | |
| Methoxychlor | 1.97 | 2.14 | | ug/L | | 109 | 70 - 130 | 5 | 20 | |
| Metolachlor | 1.97 | 2.25 | | ug/L | | 114 | 70 - 130 | 0 | 20 | |
| Metribuzin | 1.97 | 2.03 | | ug/L | | 103 | 70 - 130 | 2 | 20 | |
| Molinate | 1.97 | 2.01 | | ug/L | | 102 | 70 - 130 | 4 | 20 | |

Eurofins Eaton Monrovia

QC Sample Results

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

Job ID: 380-26568-1

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

Lab Sample ID: LCSD 380-23097/4-A
Matrix: Water
Analysis Batch: 23432

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 23097

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------------------------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| Naphthalene | 1.97 | 2.02 | | ug/L | | 103 | 70 - 130 | 3 | 20 |
| Parathion | 1.97 | 2.07 | | ug/L | | 105 | 70 - 130 | 2 | 20 |
| Pendimethalin (Penoxaline) | 1.97 | 1.73 | | ug/L | | 88 | 70 - 130 | 13 | 20 |
| Phenanthrene | 1.97 | 2.22 | | ug/L | | 113 | 70 - 130 | 3 | 20 |
| Propachlor | 1.97 | 2.19 | | ug/L | | 111 | 70 - 130 | 2 | 20 |
| Pyrene | 1.97 | 2.36 | | ug/L | | 120 | 70 - 130 | 6 | 20 |
| Simazine | 1.97 | 2.38 | | ug/L | | 121 | 70 - 130 | 1 | 20 |
| Terbacil | 1.97 | 2.09 | | ug/L | | 106 | 70 - 130 | 3 | 20 |
| Terbutylazine | 1.97 | 2.18 | | ug/L | | 111 | 70 - 130 | 4 | 20 |
| Thiobencarb | 1.97 | 2.20 | | ug/L | | 112 | 70 - 130 | 5 | 20 |
| trans-Nonachlor | 1.97 | 2.09 | | ug/L | | 106 | 70 - 130 | 18 | 20 |
| Trifluralin | 1.97 | 1.81 | | ug/L | | 92 | 70 - 130 | 7 | 20 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | LCSD Limits |
|--------------------|----------------|----------------|-------------|
| 2-Nitro-m-xylene | 101 | | 70 - 130 |
| Triphenylphosphate | 98 | | 70 - 130 |
| Perylene-d12 | 92 | | 70 - 130 |

Lab Sample ID: MRL 380-23097/2-A
Matrix: Water
Analysis Batch: 23432

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 23097

| Analyte | Spike Added | MRL Result | MRL Qualifier | Unit | D | %Rec | %Rec Limits |
|----------------------|-------------|------------|---------------|------|---|------|-------------|
| 2,4'-DDD | 0.0987 | 0.161 | ^3+ | ug/L | | 164 | 50 - 150 |
| 2,4'-DDE | 0.0987 | 0.110 | | ug/L | | 111 | 50 - 150 |
| 2,4'-DDT | 0.0987 | 0.107 | | ug/L | | 109 | 50 - 150 |
| 2,4-Dinitrotoluene | 0.0987 | 0.0844 | J | ug/L | | 85 | 50 - 150 |
| 2,6-Dinitrotoluene | 0.0987 | 0.0827 | J | ug/L | | 84 | 50 - 150 |
| 4,4'-DDD | 0.0987 | 0.118 | | ug/L | | 120 | 50 - 150 |
| 4,4'-DDE | 0.0987 | 0.102 | | ug/L | | 103 | 50 - 150 |
| 4,4'-DDT | 0.0987 | 0.144 | | ug/L | | 146 | 50 - 150 |
| Acenaphthene | 0.0987 | 0.0920 | J | ug/L | | 93 | 50 - 150 |
| Acenaphthylene | 0.0987 | 0.0801 | J | ug/L | | 81 | 50 - 150 |
| Acetochlor | 0.0494 | 0.0424 | J | ug/L | | 86 | 50 - 150 |
| Alachlor | 0.0494 | 0.0483 | J | ug/L | | 98 | 50 - 150 |
| alpha-BHC | 0.0987 | 0.126 | | ug/L | | 128 | 50 - 150 |
| alpha-Chlordane | 0.0247 | ND | | ug/L | | 75 | 50 - 150 |
| Anthracene | 0.0197 | 0.0202 | | ug/L | | 102 | 50 - 150 |
| Atrazine | 0.0494 | 0.0836 | ^3+ | ug/L | | 169 | 50 - 150 |
| Benz(a)anthracene | 0.0494 | 0.0555 | | ug/L | | 112 | 50 - 150 |
| Benzo[a]pyrene | 0.0197 | 0.0226 | | ug/L | | 114 | 50 - 150 |
| Benzo[b]fluoranthene | 0.0197 | 0.0237 | | ug/L | | 120 | 50 - 150 |
| Benzo[g,h,i]perylene | 0.0494 | 0.0587 | | ug/L | | 119 | 50 - 150 |
| Benzo[k]fluoranthene | 0.0197 | 0.0236 | | ug/L | | 119 | 50 - 150 |
| beta-BHC | 0.0987 | 0.150 | ^3+ | ug/L | | 152 | 50 - 150 |
| Bromacil | 0.0987 | 0.148 | | ug/L | | 150 | 50 - 150 |
| Butachlor | 0.0494 | 0.0583 | | ug/L | | 118 | 50 - 150 |
| Butylbenzylphthalate | 0.148 | 0.200 | J | ug/L | | 135 | 50 - 150 |

Eurofins Eaton Monrovia

QC Sample Results

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

Job ID: 380-26568-1

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

Lab Sample ID: MRL 380-23097/2-A
Matrix: Water
Analysis Batch: 23432

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 23097

| Analyte | Spike Added | MRL Result | MRL Qualifier | Unit | D | %Rec | %Rec Limits |
|----------------------------------|-------------|------------|---------------|------|---|------|-------------|
| Caffeine | 0.0494 | 0.0339 | J | ug/L | | 69 | 50 - 150 |
| Chlorobenzilate | 0.0987 | 0.129 | | ug/L | | 130 | 50 - 150 |
| Chloroneb | 0.0987 | 0.114 | | ug/L | | 115 | 50 - 150 |
| Chlorothalonil (Draconil, Bravo) | 0.0987 | 0.146 | | ug/L | | 148 | 50 - 150 |
| Chlorpyrifos | 0.0494 | 0.0546 | | ug/L | | 111 | 50 - 150 |
| Chrysene | 0.0197 | 0.0181 | J | ug/L | | 92 | 50 - 150 |
| delta-BHC | 0.0987 | 0.131 | | ug/L | | 132 | 50 - 150 |
| Di(2-ethylhexyl)adipate | 0.296 | 0.426 | J | ug/L | | 144 | 50 - 150 |
| Bis(2-ethylhexyl) phthalate | 0.592 | 0.773 | | ug/L | | 131 | 50 - 150 |
| Diazinon (Qualitative) | 0.0987 | 0.145 | ^3+ | ug/L | | 147 | 15 - 132 |
| Dibenz(a,h)anthracene | 0.0494 | 0.0536 | | ug/L | | 109 | 50 - 150 |
| Diclorvos (DDVP) | 0.0494 | 0.0520 | | ug/L | | 105 | 50 - 150 |
| Dieldrin | 0.0987 | 0.113 | J | ug/L | | 115 | 50 - 150 |
| Diethylphthalate | 0.148 | 0.198 | J | ug/L | | 134 | 50 - 150 |
| Dimethoate | 0.0987 | 0.0832 | J | ug/L | | 84 | 35 - 100 |
| Dimethylphthalate | 0.296 | 0.293 | J | ug/L | | 99 | 50 - 150 |
| Di-n-butyl phthalate | 0.296 | 0.440 | J | ug/L | | 149 | 49 - 243 |
| Di-n-octyl phthalate | 0.0987 | 0.124 | | ug/L | | 126 | 50 - 150 |
| Endosulfan I (Alpha) | 0.0987 | 0.102 | | ug/L | | 103 | 50 - 150 |
| Endosulfan II (Beta) | 0.0987 | 0.147 | | ug/L | | 149 | 50 - 150 |
| Endosulfan sulfate | 0.0987 | 0.121 | | ug/L | | 122 | 50 - 150 |
| Endrin | 0.0987 | 0.127 | | ug/L | | 129 | 50 - 150 |
| Endrin aldehyde | 0.0987 | ND | | ug/L | | 83 | 50 - 150 |
| EPTC | 0.0987 | 0.105 | | ug/L | | 106 | 50 - 150 |
| Fluoranthene | 0.0494 | 0.0553 | J | ug/L | | 112 | 50 - 150 |
| Fluorene | 0.0494 | ND | | ug/L | | 98 | 50 - 150 |
| gamma-Chlordane | 0.0247 | 0.0227 | J | ug/L | | 92 | 50 - 150 |
| Heptachlor | 0.0395 | 0.0535 | | ug/L | | 136 | 50 - 150 |
| Heptachlor epoxide (isomer B) | 0.0494 | 0.0392 | J | ug/L | | 79 | 50 - 150 |
| Hexachlorobenzene | 0.0494 | 0.0587 | | ug/L | | 119 | 50 - 150 |
| Hexachlorocyclopentadiene | 0.0494 | 0.0424 | J | ug/L | | 86 | 50 - 150 |
| Indeno[1,2,3-cd]pyrene | 0.0494 | 0.0519 | | ug/L | | 105 | 50 - 150 |
| Isophorone | 0.0987 | 0.0999 | J | ug/L | | 101 | 50 - 150 |
| Lindane | 0.0395 | 0.0463 | | ug/L | | 117 | 50 - 150 |
| Malathion | 0.0987 | 0.0950 | J | ug/L | | 96 | 50 - 150 |
| Methoxychlor | 0.0987 | 0.144 | | ug/L | | 145 | 50 - 150 |
| Metolachlor | 0.0494 | 0.0565 | | ug/L | | 115 | 50 - 150 |
| Metribuzin | 0.0494 | 0.0884 | ^3+ | ug/L | | 179 | 50 - 150 |
| Molinate | 0.0987 | 0.111 | | ug/L | | 112 | 50 - 150 |
| Naphthalene | 0.0987 | 0.104 | J | ug/L | | 105 | 50 - 150 |
| Parathion | 0.0987 | 0.123 | | ug/L | | 124 | 50 - 150 |
| Pendimethalin (Penoxaline) | 0.0987 | 0.136 | | ug/L | | 137 | 50 - 150 |
| Phenanthrene | 0.0197 | 0.0222 | J | ug/L | | 112 | 50 - 150 |
| Propachlor | 0.0494 | 0.0923 | ^3+ | ug/L | | 187 | 50 - 150 |
| Pyrene | 0.0494 | 0.0579 | | ug/L | | 117 | 50 - 150 |
| Simazine | 0.0494 | 0.0801 | ^3+ | ug/L | | 162 | 50 - 150 |
| Terbacil | 0.0987 | 0.126 | | ug/L | | 128 | 50 - 150 |
| Terbutylazine | 0.0987 | 0.156 | ^3+ | ug/L | | 158 | 50 - 150 |
| Thiobencarb | 0.0987 | 0.133 | J | ug/L | | 135 | 50 - 150 |

Eurofins Eaton Monrovia

QC Sample Results

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

Job ID: 380-26568-1

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

Lab Sample ID: MRL 380-23097/2-A
Matrix: Water
Analysis Batch: 23432

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 23097

| Analyte | Spike Added | MRL Result | MRL Qualifier | Unit | D | %Rec | %Rec Limits |
|-----------------|-------------|------------|---------------|------|---|------|-------------|
| trans-Nonachlor | 0.0247 | ND | | ug/L | | 68 | 50 - 150 |
| Trifluralin | 0.0987 | 0.131 | | ug/L | | 133 | 50 - 150 |

| Surrogate | MRL %Recovery | MRL Qualifier | Limits |
|--------------------|---------------|---------------|----------|
| 2-Nitro-m-xylene | 94 | | 70 - 130 |
| Triphenylphosphate | 104 | | 70 - 130 |
| Perylene-d12 | 103 | | 70 - 130 |

Lab Sample ID: 380-26348-AS-1-A MS
Matrix: Water
Analysis Batch: 23432

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 23097

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------------------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| 2,4'-DDD | ND | ^3+ | 2.00 | 1.93 | | ug/L | | 96 | 70 - 130 |
| 2,4'-DDE | ND | | 2.00 | 1.91 | | ug/L | | 96 | 70 - 130 |
| 2,4'-DDT | ND | | 2.00 | 2.28 | | ug/L | | 114 | 70 - 130 |
| 2,4-Dinitrotoluene | ND | | 2.00 | 2.02 | | ug/L | | 101 | 70 - 130 |
| 2,6-Dinitrotoluene | ND | | 2.00 | 1.93 | | ug/L | | 97 | 70 - 130 |
| 4,4'-DDD | ND | | 2.00 | 2.30 | | ug/L | | 115 | 70 - 130 |
| 4,4'-DDE | ND | | 2.00 | 1.72 | | ug/L | | 86 | 70 - 130 |
| 4,4'-DDT | ND | | 2.00 | 2.06 | | ug/L | | 103 | 70 - 130 |
| Acenaphthene | ND | | 2.00 | 1.95 | | ug/L | | 98 | 70 - 130 |
| Acenaphthylene | ND | | 2.00 | 1.89 | | ug/L | | 95 | 70 - 130 |
| Acetochlor | ND | | 2.00 | 1.96 | | ug/L | | 98 | 70 - 130 |
| Alachlor | ND | | 2.00 | 2.01 | | ug/L | | 101 | 70 - 130 |
| alpha-BHC | ND | | 2.00 | 2.22 | | ug/L | | 111 | 70 - 130 |
| alpha-Chlordane | ND | | 2.00 | 1.75 | | ug/L | | 88 | 70 - 130 |
| Anthracene | ND | | 2.00 | 2.23 | | ug/L | | 112 | 70 - 130 |
| Atrazine | ND | ^3+ | 2.00 | 2.18 | | ug/L | | 109 | 70 - 130 |
| Benz(a)anthracene | ND | | 2.00 | 2.22 | | ug/L | | 111 | 70 - 130 |
| Benzo[a]pyrene | ND | | 2.00 | 2.36 | | ug/L | | 118 | 70 - 130 |
| Benzo[b]fluoranthene | ND | | 2.00 | 2.38 | | ug/L | | 119 | 70 - 130 |
| Benzo[g,h,i]perylene | ND | | 2.00 | 2.37 | | ug/L | | 119 | 70 - 130 |
| Benzo[k]fluoranthene | ND | | 2.00 | 2.45 | | ug/L | | 123 | 70 - 130 |
| beta-BHC | ND | ^3+ | 2.00 | 2.28 | | ug/L | | 114 | 70 - 130 |
| Bromacil | ND | | 2.00 | 2.17 | | ug/L | | 109 | 70 - 130 |
| Butachlor | ND | | 2.00 | 2.10 | | ug/L | | 105 | 70 - 130 |
| Butylbenzylphthalate | ND | | 2.00 | 2.33 | | ug/L | | 117 | 70 - 130 |
| Caffeine | ND | | 2.00 | 1.79 | | ug/L | | 90 | 46 - 144 |
| Chlorobenzilate | ND | | 2.00 | 2.12 | | ug/L | | 106 | 70 - 130 |
| Chloroneb | ND | | 2.00 | 2.26 | | ug/L | | 113 | 70 - 130 |
| Chlorothalonil (Draconil, Bravo) | ND | | 2.00 | 1.86 | | ug/L | | 93 | 70 - 130 |
| Chlorpyrifos | ND | | 2.00 | 2.35 | | ug/L | | 118 | 70 - 130 |
| Chrysene | ND | | 2.00 | 2.31 | | ug/L | | 116 | 70 - 130 |
| delta-BHC | ND | | 2.00 | 2.11 | | ug/L | | 105 | 70 - 130 |
| Di(2-ethylhexyl)adipate | ND | | 2.00 | 2.20 | | ug/L | | 110 | 70 - 130 |
| Bis(2-ethylhexyl) phthalate | ND | | 2.00 | 1.95 | | ug/L | | 98 | 70 - 130 |
| Diazinon (Qualitative) | ND | ^3+ | 2.00 | 2.00 | | ug/L | | 100 | 15 - 132 |

QC Sample Results

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

Job ID: 380-26568-1

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

Lab Sample ID: 380-26348-AS-1-A MS
Matrix: Water
Analysis Batch: 23432

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 23097

| Analyte | Sample | Sample | Spike | MS | MS | Unit | D | %Rec | %Rec Limits |
|-------------------------------|--------|------------------|------------------|---------------|-----------|------|---|------|----------------|
| | Result | Qualifier | Added | Result | Qualifier | | | | |
| Dibenz(a,h)anthracene | ND | | 2.00 | 2.36 | | ug/L | | 118 | 70 - 130 |
| Diclorvos (DDVP) | ND | | 2.00 | 2.22 | | ug/L | | 111 | 70 - 130 |
| Dieldrin | ND | | 2.00 | 2.01 | | ug/L | | 101 | 70 - 130 |
| Diethylphthalate | ND | | 2.00 | 1.99 | | ug/L | | 99 | 70 - 130 |
| Dimethoate | ND | | 2.00 | 1.37 | | ug/L | | 69 | 34 - 111 |
| Dimethylphthalate | ND | | 2.00 | 2.14 | | ug/L | | 107 | 70 - 130 |
| Di-n-butyl phthalate | ND | | 3.99 | 4.25 | | ug/L | | 106 | 70 - 130 |
| Di-n-octyl phthalate | ND | | 2.00 | 1.74 | | ug/L | | 87 | 70 - 130 |
| Endosulfan I (Alpha) | ND | | 2.00 | 1.88 | | ug/L | | 94 | 70 - 130 |
| Endosulfan II (Beta) | ND | | 2.00 | 2.27 | | ug/L | | 114 | 70 - 130 |
| Endosulfan sulfate | ND | | 2.00 | 2.09 | | ug/L | | 104 | 70 - 130 |
| Endrin | ND | | 2.00 | 2.23 | | ug/L | | 112 | 70 - 130 |
| Endrin aldehyde | ND | | 2.00 | 1.78 | | ug/L | | 89 | 70 - 130 |
| EPTC | ND | | 2.00 | 1.96 | | ug/L | | 98 | 70 - 130 |
| Fluoranthene | ND | *1 | 2.00 | 1.82 | | ug/L | | 91 | 70 - 130 |
| Fluorene | ND | | 2.00 | 2.17 | | ug/L | | 109 | 70 - 130 |
| gamma-Chlordane | ND | | 2.00 | 1.85 | | ug/L | | 93 | 70 - 130 |
| Heptachlor | ND | | 2.00 | 2.00 | | ug/L | | 100 | 70 - 130 |
| Heptachlor epoxide (isomer B) | ND | | 2.00 | 1.87 | | ug/L | | 93 | 70 - 130 |
| Hexachlorobenzene | ND | | 2.00 | 1.99 | | ug/L | | 99 | 70 - 130 |
| Hexachlorocyclopentadiene | ND | | 2.00 | 2.10 | | ug/L | | 105 | 70 - 130 |
| Indeno[1,2,3-cd]pyrene | ND | | 2.00 | 2.34 | | ug/L | | 117 | 70 - 130 |
| Isophorone | ND | | 2.00 | 1.99 | | ug/L | | 100 | 70 - 130 |
| Lindane | ND | | 2.00 | 2.23 | | ug/L | | 111 | 70 - 130 |
| Malathion | ND | | 2.00 | 2.31 | | ug/L | | 116 | 70 - 130 |
| Methoxychlor | ND | | 2.00 | 2.19 | | ug/L | | 110 | 70 - 130 |
| Metolachlor | ND | | 2.00 | 2.28 | | ug/L | | 114 | 70 - 130 |
| Metribuzin | ND | ^3+ | 2.00 | 1.98 | | ug/L | | 99 | 70 - 130 |
| Molinate | ND | | 2.00 | 1.98 | | ug/L | | 99 | 70 - 130 |
| Naphthalene | ND | | 2.00 | 2.02 | | ug/L | | 101 | 70 - 130 |
| Parathion | ND | | 2.00 | 2.01 | | ug/L | | 101 | 70 - 130 |
| Pendimethalin (Penoxaline) | ND | | 2.00 | 1.65 | | ug/L | | 82 | 70 - 130 |
| Phenanthrene | ND | | 2.00 | 2.21 | | ug/L | | 111 | 70 - 130 |
| Propachlor | ND | ^3+ | 2.00 | 2.19 | | ug/L | | 110 | 70 - 130 |
| Pyrene | ND | | 2.00 | 1.93 | | ug/L | | 97 | 70 - 130 |
| Simazine | ND | ^3+ | 2.00 | 2.36 | | ug/L | | 118 | 70 - 130 |
| Terbacil | ND | | 2.00 | 2.13 | | ug/L | | 107 | 70 - 130 |
| Terbutylazine | ND | ^3+ | 2.00 | 2.11 | | ug/L | | 106 | 70 - 130 |
| Thiobencarb | ND | | 2.00 | 2.15 | | ug/L | | 107 | 70 - 130 |
| trans-Nonachlor | ND | | 2.00 | 2.04 | | ug/L | | 102 | 70 - 130 |
| Trifluralin | ND | | 2.00 | 1.82 | | ug/L | | 91 | 70 - 130 |
| | | MS MS | | | | | | | |
| Surrogate | | %Recovery | Qualifier | Limits | | | | | |
| 2-Nitro-m-xylene | | 98 | | 70 - 130 | | | | | |
| Triphenylphosphate | | 96 | | 70 - 130 | | | | | |
| Perylene-d12 | | 92 | | 70 - 130 | | | | | |

QC Sample Results

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

Job ID: 380-26568-1

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

Lab Sample ID: 380-26568-3 DU
Matrix: Drinking Water
Analysis Batch: 23432

Client Sample ID: AIEA GULCH WELLS PUMP 2
Prep Type: Total/NA
Prep Batch: 23097

| Analyte | Sample | Sample | DU | DU | Unit | D | RPD | Limit |
|----------------------------------|--------|-----------|--------|-----------|------|---|-----|-------|
| | Result | Qualifier | Result | Qualifier | | | | |
| 2,4'-DDD | ND | ^3+ *3 | ND | *3 | ug/L | | NC | 20 |
| 2,4'-DDE | ND | *3 | ND | *3 | ug/L | | NC | 20 |
| 2,4'-DDT | ND | *3 | ND | *3 | ug/L | | NC | 20 |
| 2,4-Dinitrotoluene | ND | *3 | ND | *3 | ug/L | | NC | 20 |
| 2,6-Dinitrotoluene | ND | *3 | ND | *3 | ug/L | | NC | 20 |
| 4,4'-DDD | ND | *3 | ND | *3 | ug/L | | NC | 20 |
| 4,4'-DDE | ND | *3 | ND | *3 | ug/L | | NC | 20 |
| 4,4'-DDT | ND | *3 | ND | *3 | ug/L | | NC | 20 |
| Acenaphthene | ND | *3 | ND | *3 | ug/L | | NC | 20 |
| Acenaphthylene | ND | *3 | ND | *3 | ug/L | | NC | 20 |
| Acetochlor | ND | *3 | ND | *3 | ug/L | | NC | 20 |
| Alachlor | ND | *3 | ND | *3 | ug/L | | NC | 20 |
| alpha-BHC | ND | *3 | ND | *3 | ug/L | | NC | 20 |
| alpha-Chlordane | ND | *3 | ND | *3 | ug/L | | NC | 20 |
| Anthracene | ND | *3 | ND | *3 | ug/L | | NC | 20 |
| Atrazine | ND | ^3+ *3 | ND | *3 | ug/L | | NC | 20 |
| Benz(a)anthracene | ND | *3 | ND | *3 | ug/L | | NC | 20 |
| Benzo[a]pyrene | ND | *3 | ND | *3 | ug/L | | NC | 20 |
| Benzo[b]fluoranthene | ND | *3 | ND | *3 | ug/L | | NC | 20 |
| Benzo[g,h,i]perylene | ND | *3 | ND | *3 | ug/L | | NC | 20 |
| Benzo[k]fluoranthene | ND | *3 | ND | *3 | ug/L | | NC | 20 |
| beta-BHC | ND | ^3+ *3 | ND | *3 | ug/L | | NC | 20 |
| Bromacil | ND | *3 | ND | *3 | ug/L | | NC | 20 |
| Butachlor | ND | *3 | ND | *3 | ug/L | | NC | 20 |
| Butylbenzylphthalate | ND | *3 | ND | *3 | ug/L | | NC | 20 |
| Caffeine | ND | *3 | ND | *3 | ug/L | | NC | 20 |
| Chlorobenzilate | ND | *3 | ND | *3 | ug/L | | NC | 20 |
| Chloroneb | ND | *3 | ND | *3 | ug/L | | NC | 20 |
| Chlorothalonil (Draconil, Bravo) | ND | *3 | ND | *3 | ug/L | | NC | 20 |
| Chlorpyrifos | ND | *3 | ND | *3 | ug/L | | NC | 20 |
| Chrysene | ND | *3 | ND | *3 | ug/L | | NC | 20 |
| delta-BHC | ND | *3 | ND | *3 | ug/L | | NC | 20 |
| Di(2-ethylhexyl)adipate | ND | *3 | ND | *3 | ug/L | | NC | 20 |
| Bis(2-ethylhexyl) phthalate | ND | *3 | ND | *3 | ug/L | | NC | 20 |
| Diazinon (Qualitative) | ND | ^3+ *3 | ND | *3 | ug/L | | NC | 20 |
| Dibenz(a,h)anthracene | ND | *3 | ND | *3 | ug/L | | NC | 20 |
| Diclorvos (DDVP) | ND | *3 | ND | *3 | ug/L | | NC | 20 |
| Dieldrin | ND | *3 | ND | *3 | ug/L | | NC | 20 |
| Diethylphthalate | ND | *3 | ND | *3 | ug/L | | NC | 20 |
| Dimethoate | ND | *3 | ND | *3 | ug/L | | NC | 20 |
| Dimethylphthalate | ND | *3 | ND | *3 | ug/L | | NC | 20 |
| Di-n-butyl phthalate | ND | *3 | ND | *3 | ug/L | | NC | 20 |
| Di-n-octyl phthalate | ND | *3 | ND | *3 | ug/L | | NC | 20 |
| Endosulfan I (Alpha) | ND | *3 | ND | *3 | ug/L | | NC | 20 |
| Endosulfan II (Beta) | ND | *3 | ND | *3 | ug/L | | NC | 20 |
| Endosulfan sulfate | ND | *3 | ND | *3 | ug/L | | NC | 20 |
| Endrin | ND | *3 | ND | *3 | ug/L | | NC | 20 |
| Endrin aldehyde | ND | *3 | ND | *3 | ug/L | | NC | 20 |

QC Sample Results

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

Job ID: 380-26568-1

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

Lab Sample ID: 380-26568-3 DU
Matrix: Drinking Water
Analysis Batch: 23432

Client Sample ID: AIEA GULCH WELLS PUMP 2
Prep Type: Total/NA
Prep Batch: 23097

| Analyte | Sample | Sample | DU | DU | Unit | D | RPD | Limit |
|----------------------------------|--------|-----------|--------|-----------|------|---|-----|-------|
| | Result | Qualifier | Result | Qualifier | | | | |
| EPTC | ND | *3 | ND | *3 | ug/L | | NC | 20 |
| Fluoranthene | ND | *1 *3 | ND | *1 *3 | ug/L | | NC | 20 |
| Fluorene | ND | *3 | ND | *3 | ug/L | | NC | 20 |
| gamma-Chlordane | ND | *3 | ND | *3 | ug/L | | NC | 20 |
| Heptachlor | ND | *3 | ND | *3 | ug/L | | NC | 20 |
| Heptachlor epoxide (isomer B) | ND | *3 | ND | *3 | ug/L | | NC | 20 |
| Hexachlorobenzene | ND | *3 | ND | *3 | ug/L | | NC | 20 |
| Hexachlorocyclopentadiene | ND | *3 | ND | *3 | ug/L | | NC | 20 |
| Indeno[1,2,3-cd]pyrene | ND | *3 | ND | *3 | ug/L | | NC | 20 |
| Isophorone | ND | *3 | ND | *3 | ug/L | | NC | 20 |
| Lindane | ND | *3 | ND | *3 | ug/L | | NC | 20 |
| Malathion | ND | *3 | ND | *3 | ug/L | | NC | 20 |
| Methoxychlor | ND | *3 | ND | *3 | ug/L | | NC | 20 |
| Metolachlor | ND | *3 | ND | *3 | ug/L | | NC | 20 |
| Metribuzin | ND | ^3+ *3 | ND | *3 | ug/L | | NC | 20 |
| Molinate | ND | *3 | ND | *3 | ug/L | | NC | 20 |
| Naphthalene | ND | *3 | ND | *3 | ug/L | | NC | 20 |
| Parathion | ND | *3 | ND | *3 | ug/L | | NC | 20 |
| Pendimethalin (Penoxaline) | ND | *3 | ND | *3 | ug/L | | NC | 20 |
| Total Permethrin (mixed isomers) | ND | | ND | | ug/L | | NC | 20 |
| Phenanthrene | ND | *3 | ND | *3 | ug/L | | NC | 20 |
| Propachlor | ND | ^3+ *3 | ND | *3 | ug/L | | NC | 20 |
| Pyrene | ND | *3 | ND | *3 | ug/L | | NC | 20 |
| Simazine | ND | ^3+ *3 | ND | *3 | ug/L | | NC | 20 |
| Terbacil | ND | *3 | ND | *3 | ug/L | | NC | 20 |
| Terbutylazine | ND | ^3+ *3 | ND | *3 | ug/L | | NC | 20 |
| Thiobencarb | ND | *3 | ND | *3 | ug/L | | NC | 20 |
| trans-Nonachlor | ND | *3 | ND | *3 | ug/L | | NC | 20 |
| Trifluralin | ND | *3 | ND | *3 | ug/L | | NC | 20 |

| Surrogate | %Recovery | DU DU Qualifier | Limits |
|--------------------|-----------|-----------------|----------|
| 2-Nitro-m-xylene | 92911 | S1+ *3 | 70 - 130 |
| Triphenylphosphate | 4997 | S1+ *3 | 70 - 130 |
| Perylene-d12 | 107 | *3 | 70 - 130 |

Lab Sample ID: MB 380-23750/1-A
Matrix: Water
Analysis Batch: 23898

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 23750

| Analyte | MB | MB | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------|--------|-----------|-------|------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | |
| 2,4'-DDD | ND | | 0.099 | ug/L | | 11/09/22 12:19 | 11/10/22 15:45 | 1 |
| 2,4'-DDE | ND | | 0.099 | ug/L | | 11/09/22 12:19 | 11/10/22 15:45 | 1 |
| 2,4'-DDT | ND | | 0.099 | ug/L | | 11/09/22 12:19 | 11/10/22 15:45 | 1 |
| 2,4-Dinitrotoluene | ND | | 0.099 | ug/L | | 11/09/22 12:19 | 11/10/22 15:45 | 1 |
| 2,6-Dinitrotoluene | ND | | 0.099 | ug/L | | 11/09/22 12:19 | 11/10/22 15:45 | 1 |
| 4,4'-DDD | ND | | 0.099 | ug/L | | 11/09/22 12:19 | 11/10/22 15:45 | 1 |
| 4,4'-DDE | ND | | 0.099 | ug/L | | 11/09/22 12:19 | 11/10/22 15:45 | 1 |
| 4,4'-DDT | ND | | 0.099 | ug/L | | 11/09/22 12:19 | 11/10/22 15:45 | 1 |

Eurofins Eaton Monrovia

QC Sample Results

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

Job ID: 380-26568-1

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

Lab Sample ID: MB 380-23750/1-A
Matrix: Water
Analysis Batch: 23898

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 23750

| Analyte | MB Result | MB Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------------|-----------|--------------|-------|------|---|----------------|----------------|---------|
| Acenaphthene | ND | | 0.099 | ug/L | | 11/09/22 12:19 | 11/10/22 15:45 | 1 |
| Acenaphthylene | ND | | 0.099 | ug/L | | 11/09/22 12:19 | 11/10/22 15:45 | 1 |
| Acetochlor | ND | | 0.099 | ug/L | | 11/09/22 12:19 | 11/10/22 15:45 | 1 |
| Alachlor | ND | | 0.049 | ug/L | | 11/09/22 12:19 | 11/10/22 15:45 | 1 |
| alpha-BHC | ND | | 0.099 | ug/L | | 11/09/22 12:19 | 11/10/22 15:45 | 1 |
| alpha-Chlordane | ND | | 0.049 | ug/L | | 11/09/22 12:19 | 11/10/22 15:45 | 1 |
| Anthracene | ND | | 0.020 | ug/L | | 11/09/22 12:19 | 11/10/22 15:45 | 1 |
| Atrazine | ND | | 0.049 | ug/L | | 11/09/22 12:19 | 11/10/22 15:45 | 1 |
| Benz(a)anthracene | ND | | 0.049 | ug/L | | 11/09/22 12:19 | 11/10/22 15:45 | 1 |
| Benzo[a]pyrene | ND | | 0.020 | ug/L | | 11/09/22 12:19 | 11/10/22 15:45 | 1 |
| Benzo[b]fluoranthene | ND | | 0.020 | ug/L | | 11/09/22 12:19 | 11/10/22 15:45 | 1 |
| Benzo[g,h,i]perylene | ND | | 0.049 | ug/L | | 11/09/22 12:19 | 11/10/22 15:45 | 1 |
| Benzo[k]fluoranthene | ND | | 0.020 | ug/L | | 11/09/22 12:19 | 11/10/22 15:45 | 1 |
| beta-BHC | ND | | 0.099 | ug/L | | 11/09/22 12:19 | 11/10/22 15:45 | 1 |
| Bromacil | ND | | 0.099 | ug/L | | 11/09/22 12:19 | 11/10/22 15:45 | 1 |
| Butachlor | ND | | 0.049 | ug/L | | 11/09/22 12:19 | 11/10/22 15:45 | 1 |
| Butylbenzylphthalate | ND | | 0.49 | ug/L | | 11/09/22 12:19 | 11/10/22 15:45 | 1 |
| Caffeine | ND | | 0.049 | ug/L | | 11/09/22 12:19 | 11/10/22 15:45 | 1 |
| Chlorobenzilate | ND | | 0.099 | ug/L | | 11/09/22 12:19 | 11/10/22 15:45 | 1 |
| Chloroneb | ND | | 0.099 | ug/L | | 11/09/22 12:19 | 11/10/22 15:45 | 1 |
| Chlorothalonil (Draconil, Bravo) | ND | | 0.099 | ug/L | | 11/09/22 12:19 | 11/10/22 15:45 | 1 |
| Chlorpyrifos | ND | | 0.049 | ug/L | | 11/09/22 12:19 | 11/10/22 15:45 | 1 |
| Chrysene | ND | | 0.020 | ug/L | | 11/09/22 12:19 | 11/10/22 15:45 | 1 |
| delta-BHC | ND | | 0.099 | ug/L | | 11/09/22 12:19 | 11/10/22 15:45 | 1 |
| Di(2-ethylhexyl)adipate | 6.28 | B | 0.59 | ug/L | | 11/09/22 12:19 | 11/10/22 15:45 | 1 |
| Bis(2-ethylhexyl) phthalate | ND | | 0.59 | ug/L | | 11/09/22 12:19 | 11/10/22 15:45 | 1 |
| Diazinon (Qualitative) | ND | | 0.099 | ug/L | | 11/09/22 12:19 | 11/10/22 15:45 | 1 |
| Dibenz(a,h)anthracene | ND | | 0.049 | ug/L | | 11/09/22 12:19 | 11/10/22 15:45 | 1 |
| Diclorvos (DDVP) | ND | | 0.049 | ug/L | | 11/09/22 12:19 | 11/10/22 15:45 | 1 |
| Dieldrin | ND | | 0.20 | ug/L | | 11/09/22 12:19 | 11/10/22 15:45 | 1 |
| Diethylphthalate | ND | | 0.49 | ug/L | | 11/09/22 12:19 | 11/10/22 15:45 | 1 |
| Dimethoate | ND | | 0.099 | ug/L | | 11/09/22 12:19 | 11/10/22 15:45 | 1 |
| Dimethylphthalate | ND | | 0.49 | ug/L | | 11/09/22 12:19 | 11/10/22 15:45 | 1 |
| Di-n-butyl phthalate | ND | | 0.99 | ug/L | | 11/09/22 12:19 | 11/10/22 15:45 | 1 |
| Di-n-octyl phthalate | ND | | 0.099 | ug/L | | 11/09/22 12:19 | 11/10/22 15:45 | 1 |
| Endosulfan I (Alpha) | ND | | 0.099 | ug/L | | 11/09/22 12:19 | 11/10/22 15:45 | 1 |
| Endosulfan II (Beta) | ND | | 0.099 | ug/L | | 11/09/22 12:19 | 11/10/22 15:45 | 1 |
| Endosulfan sulfate | ND | | 0.099 | ug/L | | 11/09/22 12:19 | 11/10/22 15:45 | 1 |
| Endrin | ND | | 0.099 | ug/L | | 11/09/22 12:19 | 11/10/22 15:45 | 1 |
| Endrin aldehyde | ND | | 0.099 | ug/L | | 11/09/22 12:19 | 11/10/22 15:45 | 1 |
| EPTC | ND | | 0.099 | ug/L | | 11/09/22 12:19 | 11/10/22 15:45 | 1 |
| Fluoranthene | ND | | 0.099 | ug/L | | 11/09/22 12:19 | 11/10/22 15:45 | 1 |
| Fluorene | ND | | 0.049 | ug/L | | 11/09/22 12:19 | 11/10/22 15:45 | 1 |
| gamma-Chlordane | ND | | 0.049 | ug/L | | 11/09/22 12:19 | 11/10/22 15:45 | 1 |
| Heptachlor | ND | | 0.039 | ug/L | | 11/09/22 12:19 | 11/10/22 15:45 | 1 |
| Heptachlor epoxide (isomer B) | ND | | 0.049 | ug/L | | 11/09/22 12:19 | 11/10/22 15:45 | 1 |
| Hexachlorobenzene | ND | | 0.049 | ug/L | | 11/09/22 12:19 | 11/10/22 15:45 | 1 |
| Hexachlorocyclopentadiene | ND | | 0.049 | ug/L | | 11/09/22 12:19 | 11/10/22 15:45 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 0.049 | ug/L | | 11/09/22 12:19 | 11/10/22 15:45 | 1 |

Eurofins Eaton Monrovia

QC Sample Results

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

Job ID: 380-26568-1

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

Lab Sample ID: MB 380-23750/1-A
Matrix: Water
Analysis Batch: 23898

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 23750

| Analyte | MB Result | MB Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------------|-----------|--------------|-------|------|---|----------------|----------------|---------|
| Isophorone | ND | | 0.49 | ug/L | | 11/09/22 12:19 | 11/10/22 15:45 | 1 |
| Lindane | ND | | 0.039 | ug/L | | 11/09/22 12:19 | 11/10/22 15:45 | 1 |
| Malathion | ND | | 0.099 | ug/L | | 11/09/22 12:19 | 11/10/22 15:45 | 1 |
| Methoxychlor | ND | | 0.099 | ug/L | | 11/09/22 12:19 | 11/10/22 15:45 | 1 |
| Metolachlor | ND | | 0.049 | ug/L | | 11/09/22 12:19 | 11/10/22 15:45 | 1 |
| Metribuzin | ND | | 0.049 | ug/L | | 11/09/22 12:19 | 11/10/22 15:45 | 1 |
| Molinate | ND | | 0.099 | ug/L | | 11/09/22 12:19 | 11/10/22 15:45 | 1 |
| Naphthalene | ND | | 0.30 | ug/L | | 11/09/22 12:19 | 11/10/22 15:45 | 1 |
| Parathion | ND | | 0.099 | ug/L | | 11/09/22 12:19 | 11/10/22 15:45 | 1 |
| Pendimethalin (Penoxaline) | ND | | 0.099 | ug/L | | 11/09/22 12:19 | 11/10/22 15:45 | 1 |
| Total Permethrin (mixed isomers) | ND | | 0.20 | ug/L | | 11/09/22 12:19 | 11/10/22 15:45 | 1 |
| Phenanthrene | ND | | 0.039 | ug/L | | 11/09/22 12:19 | 11/10/22 15:45 | 1 |
| Propachlor | ND | | 0.049 | ug/L | | 11/09/22 12:19 | 11/10/22 15:45 | 1 |
| Pyrene | ND | | 0.049 | ug/L | | 11/09/22 12:19 | 11/10/22 15:45 | 1 |
| Simazine | ND | | 0.049 | ug/L | | 11/09/22 12:19 | 11/10/22 15:45 | 1 |
| Terbacil | ND | | 0.099 | ug/L | | 11/09/22 12:19 | 11/10/22 15:45 | 1 |
| Terbutylazine | ND | | 0.099 | ug/L | | 11/09/22 12:19 | 11/10/22 15:45 | 1 |
| Thiobencarb | ND | | 0.20 | ug/L | | 11/09/22 12:19 | 11/10/22 15:45 | 1 |
| trans-Nonachlor | ND | | 0.049 | ug/L | | 11/09/22 12:19 | 11/10/22 15:45 | 1 |
| Trifluralin | ND | | 0.099 | ug/L | | 11/09/22 12:19 | 11/10/22 15:45 | 1 |

| Tentatively Identified Compound | MB Est. Result | MB Qualifier | Unit | D | RT | CAS No. | Prepared | Analyzed | Dil Fac |
|--|----------------|--------------|------|---|------|--------------|----------------|----------------|---------|
| 1,3-Propanediol, trimethylsilyl ether | 0.619 | T J N | ug/L | | 2.25 | 1000333-05-2 | 11/09/22 12:19 | 11/10/22 15:45 | 1 |
| Cyclotetrasiloxane, octamethyl- | 0.503 | T J N | ug/L | | 2.33 | 556-67-2 | 11/09/22 12:19 | 11/10/22 15:45 | 1 |
| Decane | 1.99 | T J N | ug/L | | 2.47 | 124-18-5 | 11/09/22 12:19 | 11/10/22 15:45 | 1 |
| 2-Pyrrolidinone, 1-methyl- | 1.24 | T J N | ug/L | | 2.72 | 872-50-4 | 11/09/22 12:19 | 11/10/22 15:45 | 1 |
| Cyclohexasiloxane, dodecamethyl- | 0.654 | T J N | ug/L | | 3.33 | 540-97-6 | 11/09/22 12:19 | 11/10/22 15:45 | 1 |
| Pentanoic acid, 2,2,4-trimethyl-3-carboxyisopropyl, isobutyl | 0.649 | T J N | ug/L | | 4.62 | 1000140-77-5 | 11/09/22 12:19 | 11/10/22 15:45 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|--------------------|--------------|--------------|----------|----------------|----------------|---------|
| 2-Nitro-m-xylene | 97 | | 70 - 130 | 11/09/22 12:19 | 11/10/22 15:45 | 1 |
| Triphenylphosphate | 98 | | 70 - 130 | 11/09/22 12:19 | 11/10/22 15:45 | 1 |
| Perylene-d12 | 94 | | 70 - 130 | 11/09/22 12:19 | 11/10/22 15:45 | 1 |

Lab Sample ID: LCS 380-23750/3-A
Matrix: Water
Analysis Batch: 23898

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 23750

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|--------------------|-------------|------------|---------------|------|---|------|-------------|
| 2,4'-DDD | 1.97 | 2.02 | | ug/L | | 103 | 70 - 130 |
| 2,4'-DDE | 1.97 | 1.76 | | ug/L | | 90 | 70 - 130 |
| 2,4'-DDT | 1.97 | 1.92 | | ug/L | | 97 | 70 - 130 |
| 2,4-Dinitrotoluene | 1.97 | 1.75 | | ug/L | | 89 | 70 - 130 |
| 2,6-Dinitrotoluene | 1.97 | 1.97 | | ug/L | | 100 | 70 - 130 |
| 4,4'-DDD | 1.97 | 1.93 | | ug/L | | 98 | 70 - 130 |
| 4,4'-DDE | 1.97 | 1.93 | | ug/L | | 98 | 70 - 130 |

Eurofins Eaton Monrovia

QC Sample Results

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

Job ID: 380-26568-1

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

Lab Sample ID: LCS 380-23750/3-A
Matrix: Water
Analysis Batch: 23898

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 23750

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------------------------------|-------------|------------|---------------|------|---|------|-------------|
| 4,4'-DDT | 1.97 | 1.81 | | ug/L | | 92 | 70 - 130 |
| Acenaphthene | 1.97 | 1.95 | | ug/L | | 99 | 70 - 130 |
| Acenaphthylene | 1.97 | 2.12 | | ug/L | | 107 | 70 - 130 |
| Acetochlor | 1.97 | 2.07 | | ug/L | | 105 | 70 - 130 |
| Alachlor | 1.97 | 2.07 | | ug/L | | 105 | 70 - 130 |
| alpha-BHC | 1.97 | 1.98 | | ug/L | | 100 | 70 - 130 |
| alpha-Chlordane | 1.97 | 2.15 | | ug/L | | 109 | 70 - 130 |
| Anthracene | 1.97 | 2.00 | | ug/L | | 101 | 70 - 130 |
| Atrazine | 1.97 | 2.22 | | ug/L | | 113 | 70 - 130 |
| Benz(a)anthracene | 1.97 | 2.08 | | ug/L | | 105 | 70 - 130 |
| Benzo[a]pyrene | 1.97 | 2.16 | | ug/L | | 110 | 70 - 130 |
| Benzo[b]fluoranthene | 1.97 | 2.26 | | ug/L | | 115 | 70 - 130 |
| Benzo[g,h,i]perylene | 1.97 | 2.15 | | ug/L | | 109 | 70 - 130 |
| Benzo[k]fluoranthene | 1.97 | 2.18 | | ug/L | | 111 | 70 - 130 |
| beta-BHC | 1.97 | 1.90 | | ug/L | | 97 | 70 - 130 |
| Bromacil | 1.97 | 2.40 | | ug/L | | 122 | 70 - 130 |
| Butachlor | 1.97 | 2.04 | | ug/L | | 104 | 70 - 130 |
| Butylbenzylphthalate | 1.97 | 2.20 | | ug/L | | 112 | 70 - 130 |
| Caffeine | 1.97 | 1.47 | | ug/L | | 75 | 45 - 137 |
| Chlorobenzilate | 1.97 | 2.30 | | ug/L | | 117 | 70 - 130 |
| Chloroneb | 1.97 | 2.04 | | ug/L | | 103 | 70 - 130 |
| Chlorothalonil (Draconil, Bravo) | 1.97 | 1.95 | | ug/L | | 99 | 70 - 130 |
| Chlorpyrifos | 1.97 | 2.15 | | ug/L | | 109 | 70 - 130 |
| Chrysene | 1.97 | 2.17 | | ug/L | | 110 | 70 - 130 |
| delta-BHC | 1.97 | 1.89 | | ug/L | | 96 | 70 - 130 |
| Di(2-ethylhexyl)adipate | 1.97 | 2.16 | | ug/L | | 109 | 70 - 130 |
| Bis(2-ethylhexyl) phthalate | 1.97 | 1.98 | | ug/L | | 100 | 70 - 130 |
| Diazinon (Qualitative) | 1.97 | 2.11 | | ug/L | | 107 | 15 - 132 |
| Dibenz(a,h)anthracene | 1.97 | 2.27 | | ug/L | | 115 | 70 - 130 |
| Diclorvos (DDVP) | 1.97 | 2.26 | | ug/L | | 115 | 70 - 130 |
| Dieldrin | 1.97 | 1.90 | | ug/L | | 96 | 70 - 130 |
| Diethylphthalate | 1.97 | 2.16 | | ug/L | | 110 | 70 - 130 |
| Dimethoate | 1.97 | 1.42 | | ug/L | | 72 | 35 - 100 |
| Dimethylphthalate | 1.97 | 2.09 | | ug/L | | 106 | 70 - 130 |
| Di-n-butyl phthalate | 3.94 | 3.99 | | ug/L | | 101 | 70 - 130 |
| Di-n-octyl phthalate | 1.97 | 1.84 | | ug/L | | 93 | 70 - 130 |
| Endosulfan I (Alpha) | 1.97 | 2.00 | | ug/L | | 102 | 70 - 130 |
| Endosulfan II (Beta) | 1.97 | 2.03 | | ug/L | | 103 | 70 - 130 |
| Endosulfan sulfate | 1.97 | 1.88 | | ug/L | | 95 | 70 - 130 |
| Endrin | 1.97 | 2.29 | | ug/L | | 116 | 70 - 130 |
| Endrin aldehyde | 1.97 | 1.98 | | ug/L | | 101 | 70 - 130 |
| EPTC | 1.97 | 2.13 | | ug/L | | 108 | 70 - 130 |
| Fluoranthene | 1.97 | 2.10 | | ug/L | | 107 | 70 - 130 |
| Fluorene | 1.97 | 1.99 | | ug/L | | 101 | 70 - 130 |
| gamma-Chlordane | 1.97 | 2.16 | | ug/L | | 109 | 70 - 130 |
| Heptachlor | 1.97 | 1.92 | | ug/L | | 97 | 70 - 130 |
| Heptachlor epoxide (isomer B) | 1.97 | 2.11 | | ug/L | | 107 | 70 - 130 |
| Hexachlorobenzene | 1.97 | 2.00 | | ug/L | | 101 | 70 - 130 |
| Hexachlorocyclopentadiene | 1.97 | 1.88 | | ug/L | | 95 | 70 - 130 |

Eurofins Eaton Monrovia

QC Sample Results

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

Job ID: 380-26568-1

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

Lab Sample ID: LCS 380-23750/3-A
Matrix: Water
Analysis Batch: 23898

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 23750

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------------------------|----------------|---------------|------------------|------|---|------|----------------|
| Indeno[1,2,3-cd]pyrene | 1.97 | 2.19 | | ug/L | | 111 | 70 - 130 |
| Isophorone | 1.97 | 2.10 | | ug/L | | 107 | 70 - 130 |
| Lindane | 1.97 | 1.94 | | ug/L | | 98 | 70 - 130 |
| Malathion | 1.97 | 2.32 | | ug/L | | 118 | 70 - 130 |
| Methoxychlor | 1.97 | 2.18 | | ug/L | | 111 | 70 - 130 |
| Metolachlor | 1.97 | 2.06 | | ug/L | | 104 | 70 - 130 |
| Metribuzin | 1.97 | 2.00 | | ug/L | | 101 | 70 - 130 |
| Molinate | 1.97 | 2.13 | | ug/L | | 108 | 70 - 130 |
| Naphthalene | 1.97 | 1.91 | | ug/L | | 97 | 70 - 130 |
| Parathion | 1.97 | 2.40 | | ug/L | | 122 | 70 - 130 |
| Pendimethalin (Penoxaline) | 1.97 | 1.79 | | ug/L | | 91 | 70 - 130 |
| Phenanthrene | 1.97 | 2.05 | | ug/L | | 104 | 70 - 130 |
| Propachlor | 1.97 | 2.01 | | ug/L | | 102 | 70 - 130 |
| Pyrene | 1.97 | 2.10 | | ug/L | | 106 | 70 - 130 |
| Simazine | 1.97 | 2.32 | | ug/L | | 118 | 70 - 130 |
| Terbacil | 1.97 | 2.22 | | ug/L | | 112 | 70 - 130 |
| Terbutylazine | 1.97 | 2.21 | | ug/L | | 112 | 70 - 130 |
| Thiobencarb | 1.97 | 2.17 | | ug/L | | 110 | 70 - 130 |
| trans-Nonachlor | 1.97 | 2.08 | | ug/L | | 106 | 70 - 130 |
| Trifluralin | 1.97 | 1.70 | | ug/L | | 86 | 70 - 130 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|--------------------|------------------|------------------|----------|
| 2-Nitro-m-xylene | 97 | | 70 - 130 |
| Triphenylphosphate | 101 | | 70 - 130 |
| Perylene-d12 | 94 | | 70 - 130 |

Lab Sample ID: LCSD 380-23750/4-A
Matrix: Water
Analysis Batch: 23898

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 23750

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------------|----------------|----------------|-------------------|------|---|------|----------------|-----|--------------|
| 2,4'-DDD | 1.97 | 1.99 | | ug/L | | 101 | 70 - 130 | 2 | 20 |
| 2,4'-DDE | 1.97 | 1.76 | | ug/L | | 89 | 70 - 130 | 0 | 20 |
| 2,4'-DDT | 1.97 | 1.90 | | ug/L | | 96 | 70 - 130 | 1 | 20 |
| 2,4-Dinitrotoluene | 1.97 | 1.77 | | ug/L | | 90 | 70 - 130 | 1 | 20 |
| 2,6-Dinitrotoluene | 1.97 | 2.01 | | ug/L | | 102 | 70 - 130 | 2 | 20 |
| 4,4'-DDD | 1.97 | 1.92 | | ug/L | | 97 | 70 - 130 | 1 | 20 |
| 4,4'-DDE | 1.97 | 1.98 | | ug/L | | 100 | 70 - 130 | 2 | 20 |
| 4,4'-DDT | 1.97 | 1.81 | | ug/L | | 92 | 70 - 130 | 0 | 20 |
| Acenaphthene | 1.97 | 1.98 | | ug/L | | 101 | 70 - 130 | 2 | 20 |
| Acenaphthylene | 1.97 | 2.09 | | ug/L | | 106 | 70 - 130 | 1 | 20 |
| Acetochlor | 1.97 | 2.00 | | ug/L | | 101 | 70 - 130 | 3 | 20 |
| Alachlor | 1.97 | 2.01 | | ug/L | | 102 | 70 - 130 | 3 | 20 |
| alpha-BHC | 1.97 | 2.00 | | ug/L | | 102 | 70 - 130 | 1 | 20 |
| alpha-Chlordane | 1.97 | 2.15 | | ug/L | | 109 | 70 - 130 | 0 | 20 |
| Anthracene | 1.97 | 1.97 | | ug/L | | 100 | 70 - 130 | 2 | 20 |
| Atrazine | 1.97 | 2.19 | | ug/L | | 111 | 70 - 130 | 1 | 20 |
| Benz(a)anthracene | 1.97 | 2.06 | | ug/L | | 104 | 70 - 130 | 1 | 20 |

Eurofins Eaton Monrovia

QC Sample Results

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

Job ID: 380-26568-1

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

Lab Sample ID: LCSD 380-23750/4-A
Matrix: Water
Analysis Batch: 23898

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 23750

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec | | RPD | RPD Limit |
|----------------------------------|-------------|-------------|----------------|------|---|------|----------|-----|-----|-----------|
| | | | | | | | Limits | RPD | | |
| Benzo[a]pyrene | 1.97 | 2.02 | | ug/L | | 102 | 70 - 130 | 7 | 20 | |
| Benzo[b]fluoranthene | 1.97 | 2.17 | | ug/L | | 110 | 70 - 130 | 4 | 20 | |
| Benzo[g,h,i]perylene | 1.97 | 1.97 | | ug/L | | 100 | 70 - 130 | 9 | 20 | |
| Benzo[k]fluoranthene | 1.97 | 2.11 | | ug/L | | 107 | 70 - 130 | 3 | 20 | |
| beta-BHC | 1.97 | 1.87 | | ug/L | | 95 | 70 - 130 | 2 | 20 | |
| Bromacil | 1.97 | 2.32 | | ug/L | | 117 | 70 - 130 | 3 | 20 | |
| Butachlor | 1.97 | 2.00 | | ug/L | | 101 | 70 - 130 | 2 | 20 | |
| Butylbenzylphthalate | 1.97 | 2.19 | | ug/L | | 111 | 70 - 130 | 0 | 20 | |
| Caffeine | 1.97 | 1.45 | | ug/L | | 73 | 45 - 137 | 2 | 20 | |
| Chlorobenzilate | 1.97 | 2.27 | | ug/L | | 115 | 70 - 130 | 1 | 20 | |
| Chloroneb | 1.97 | 2.08 | | ug/L | | 105 | 70 - 130 | 2 | 20 | |
| Chlorothalonil (Draconil, Bravo) | 1.97 | 1.95 | | ug/L | | 99 | 70 - 130 | 0 | 20 | |
| Chlorpyrifos | 1.97 | 2.12 | | ug/L | | 108 | 70 - 130 | 1 | 20 | |
| Chrysene | 1.97 | 2.14 | | ug/L | | 108 | 70 - 130 | 2 | 20 | |
| delta-BHC | 1.97 | 1.89 | | ug/L | | 96 | 70 - 130 | 0 | 20 | |
| Di(2-ethylhexyl)adipate | 1.97 | 2.22 | | ug/L | | 113 | 70 - 130 | 3 | 20 | |
| Bis(2-ethylhexyl) phthalate | 1.97 | 1.96 | | ug/L | | 100 | 70 - 130 | 1 | 20 | |
| Diazinon (Qualitative) | 1.97 | 2.07 | | ug/L | | 105 | 15 - 132 | 2 | 20 | |
| Dibenz(a,h)anthracene | 1.97 | 2.04 | | ug/L | | 104 | 70 - 130 | 10 | 20 | |
| Diclorvos (DDVP) | 1.97 | 2.25 | | ug/L | | 114 | 70 - 130 | 1 | 20 | |
| Dieldrin | 1.97 | 1.83 | | ug/L | | 93 | 70 - 130 | 4 | 20 | |
| Diethylphthalate | 1.97 | 2.14 | | ug/L | | 109 | 70 - 130 | 1 | 20 | |
| Dimethoate | 1.97 | 1.38 | | ug/L | | 70 | 35 - 100 | 3 | 20 | |
| Dimethylphthalate | 1.97 | 2.12 | | ug/L | | 107 | 70 - 130 | 1 | 20 | |
| Di-n-butyl phthalate | 3.94 | 3.94 | | ug/L | | 100 | 70 - 130 | 1 | 20 | |
| Di-n-octyl phthalate | 1.97 | 1.80 | | ug/L | | 92 | 70 - 130 | 2 | 20 | |
| Endosulfan I (Alpha) | 1.97 | 1.93 | | ug/L | | 98 | 70 - 130 | 3 | 20 | |
| Endosulfan II (Beta) | 1.97 | 1.98 | | ug/L | | 101 | 70 - 130 | 2 | 20 | |
| Endosulfan sulfate | 1.97 | 1.83 | | ug/L | | 93 | 70 - 130 | 3 | 20 | |
| Endrin | 1.97 | 2.24 | | ug/L | | 114 | 70 - 130 | 2 | 20 | |
| Endrin aldehyde | 1.97 | 1.94 | | ug/L | | 99 | 70 - 130 | 2 | 20 | |
| EPTC | 1.97 | 2.18 | | ug/L | | 110 | 70 - 130 | 2 | 20 | |
| Fluoranthene | 1.97 | 2.11 | | ug/L | | 107 | 70 - 130 | 0 | 20 | |
| Fluorene | 1.97 | 2.03 | | ug/L | | 103 | 70 - 130 | 2 | 20 | |
| gamma-Chlordane | 1.97 | 2.12 | | ug/L | | 107 | 70 - 130 | 2 | 20 | |
| Heptachlor | 1.97 | 1.91 | | ug/L | | 97 | 70 - 130 | 0 | 20 | |
| Heptachlor epoxide (isomer B) | 1.97 | 2.01 | | ug/L | | 102 | 70 - 130 | 5 | 20 | |
| Hexachlorobenzene | 1.97 | 2.11 | | ug/L | | 107 | 70 - 130 | 5 | 20 | |
| Hexachlorocyclopentadiene | 1.97 | 1.92 | | ug/L | | 97 | 70 - 130 | 2 | 20 | |
| Indeno[1,2,3-cd]pyrene | 1.97 | 1.99 | | ug/L | | 101 | 70 - 130 | 10 | 20 | |
| Isophorone | 1.97 | 2.10 | | ug/L | | 107 | 70 - 130 | 0 | 20 | |
| Lindane | 1.97 | 1.95 | | ug/L | | 99 | 70 - 130 | 1 | 20 | |
| Malathion | 1.97 | 2.27 | | ug/L | | 115 | 70 - 130 | 2 | 20 | |
| Methoxychlor | 1.97 | 2.16 | | ug/L | | 110 | 70 - 130 | 1 | 20 | |
| Metolachlor | 1.97 | 2.02 | | ug/L | | 103 | 70 - 130 | 2 | 20 | |
| Metribuzin | 1.97 | 1.89 | | ug/L | | 96 | 70 - 130 | 6 | 20 | |
| Molinate | 1.97 | 2.18 | | ug/L | | 111 | 70 - 130 | 2 | 20 | |
| Naphthalene | 1.97 | 1.90 | | ug/L | | 97 | 70 - 130 | 0 | 20 | |
| Parathion | 1.97 | 2.34 | | ug/L | | 119 | 70 - 130 | 3 | 20 | |

Eurofins Eaton Monrovia

QC Sample Results

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

Job ID: 380-26568-1

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

Lab Sample ID: LCSD 380-23750/4-A
Matrix: Water
Analysis Batch: 23898

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 23750

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------------------------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| Pendimethalin (Penoxaline) | 1.97 | 1.75 | | ug/L | | 89 | 70 - 130 | 2 | 20 |
| Phenanthrene | 1.97 | 2.08 | | ug/L | | 106 | 70 - 130 | 1 | 20 |
| Propachlor | 1.97 | 2.03 | | ug/L | | 103 | 70 - 130 | 1 | 20 |
| Pyrene | 1.97 | 2.10 | | ug/L | | 106 | 70 - 130 | 0 | 20 |
| Simazine | 1.97 | 2.29 | | ug/L | | 116 | 70 - 130 | 1 | 20 |
| Terbacil | 1.97 | 2.18 | | ug/L | | 111 | 70 - 130 | 2 | 20 |
| Terbutylazine | 1.97 | 2.22 | | ug/L | | 112 | 70 - 130 | 0 | 20 |
| Thiobencarb | 1.97 | 2.14 | | ug/L | | 109 | 70 - 130 | 1 | 20 |
| trans-Nonachlor | 1.97 | 2.03 | | ug/L | | 103 | 70 - 130 | 3 | 20 |
| Trifluralin | 1.97 | 1.74 | | ug/L | | 88 | 70 - 130 | 2 | 20 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | LCSD Limits |
|--------------------|----------------|----------------|-------------|
| 2-Nitro-m-xylene | 97 | | 70 - 130 |
| Triphenylphosphate | 99 | | 70 - 130 |
| Perylene-d12 | 87 | | 70 - 130 |

Lab Sample ID: MRL 380-23750/2-A
Matrix: Water
Analysis Batch: 23898

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 23750

| Analyte | Spike Added | MRL Result | MRL Qualifier | Unit | D | %Rec | %Rec Limits |
|----------------------|-------------|------------|---------------|------|---|------|-------------|
| 2,4'-DDD | 0.0985 | 0.0622 | J | ug/L | | 63 | 50 - 150 |
| 2,4'-DDE | 0.0985 | 0.0920 | J | ug/L | | 93 | 50 - 150 |
| 2,4'-DDT | 0.0985 | 0.0817 | J | ug/L | | 83 | 50 - 150 |
| 2,4-Dinitrotoluene | 0.0985 | 0.120 | | ug/L | | 122 | 50 - 150 |
| 2,6-Dinitrotoluene | 0.0985 | 0.0885 | J | ug/L | | 90 | 50 - 150 |
| 4,4'-DDD | 0.0985 | 0.0900 | J | ug/L | | 91 | 50 - 150 |
| 4,4'-DDE | 0.0985 | 0.0656 | J | ug/L | | 67 | 50 - 150 |
| 4,4'-DDT | 0.0985 | 0.0779 | J | ug/L | | 79 | 50 - 150 |
| Acenaphthene | 0.0985 | 0.0979 | J | ug/L | | 99 | 50 - 150 |
| Acenaphthylene | 0.0985 | 0.0966 | J | ug/L | | 98 | 50 - 150 |
| Acetochlor | 0.0493 | 0.0412 | J | ug/L | | 84 | 50 - 150 |
| Alachlor | 0.0493 | 0.0500 | | ug/L | | 101 | 50 - 150 |
| alpha-BHC | 0.0985 | 0.101 | | ug/L | | 103 | 50 - 150 |
| alpha-Chlordane | 0.0246 | ND | | ug/L | | 87 | 50 - 150 |
| Anthracene | 0.0197 | 0.0197 | J | ug/L | | 100 | 50 - 150 |
| Atrazine | 0.0493 | 0.0540 | | ug/L | | 110 | 50 - 150 |
| Benz(a)anthracene | 0.0493 | 0.0451 | J | ug/L | | 92 | 50 - 150 |
| Benzo[a]pyrene | 0.0197 | 0.0192 | J | ug/L | | 98 | 50 - 150 |
| Benzo[b]fluoranthene | 0.0197 | 0.0202 | | ug/L | | 102 | 50 - 150 |
| Benzo[g,h,i]perylene | 0.0493 | 0.0471 | J | ug/L | | 96 | 50 - 150 |
| Benzo[k]fluoranthene | 0.0197 | 0.0195 | J | ug/L | | 99 | 50 - 150 |
| beta-BHC | 0.0985 | 0.0964 | J | ug/L | | 98 | 50 - 150 |
| Bromacil | 0.0985 | 0.105 | | ug/L | | 107 | 50 - 150 |
| Butachlor | 0.0493 | 0.0491 | | ug/L | | 100 | 50 - 150 |
| Butylbenzylphthalate | 0.148 | 0.162 | J | ug/L | | 109 | 50 - 150 |
| Caffeine | 0.0493 | 0.0316 | J | ug/L | | 64 | 50 - 150 |
| Chlorobenzilate | 0.0985 | 0.138 | | ug/L | | 140 | 50 - 150 |

Eurofins Eaton Monrovia

QC Sample Results

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

Job ID: 380-26568-1

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

Lab Sample ID: MRL 380-23750/2-A
Matrix: Water
Analysis Batch: 23898

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 23750

| Analyte | Spike Added | MRL Result | MRL Qualifier | Unit | D | %Rec | %Rec Limits |
|----------------------------------|-------------|------------|---------------|------|---|------|-------------|
| Chloroneb | 0.0985 | 0.103 | | ug/L | | 104 | 50 - 150 |
| Chlorothalonil (Draconil, Bravo) | 0.0985 | 0.146 | | ug/L | | 148 | 50 - 150 |
| Chlorpyrifos | 0.0493 | 0.0533 | | ug/L | | 108 | 50 - 150 |
| Chrysene | 0.0197 | 0.0202 | | ug/L | | 102 | 50 - 150 |
| delta-BHC | 0.0985 | 0.107 | | ug/L | | 109 | 50 - 150 |
| Di(2-ethylhexyl)adipate | 0.296 | 0.429 | J | ug/L | | 145 | 50 - 150 |
| Bis(2-ethylhexyl) phthalate | 0.591 | 0.682 | | ug/L | | 115 | 50 - 150 |
| Diazinon (Qualitative) | 0.0985 | 0.0937 | J | ug/L | | 95 | 15 - 132 |
| Dibenz(a,h)anthracene | 0.0493 | 0.0486 | J | ug/L | | 99 | 50 - 150 |
| Diclorvos (DDVP) | 0.0493 | 0.0609 | | ug/L | | 124 | 50 - 150 |
| Dieldrin | 0.0985 | 0.0913 | J | ug/L | | 93 | 50 - 150 |
| Diethylphthalate | 0.148 | 0.204 | J | ug/L | | 138 | 50 - 150 |
| Dimethoate | 0.0985 | 0.0576 | J | ug/L | | 58 | 35 - 100 |
| Dimethylphthalate | 0.296 | 0.317 | J | ug/L | | 107 | 50 - 150 |
| Di-n-butyl phthalate | 0.296 | 0.441 | J | ug/L | | 149 | 49 - 243 |
| Di-n-octyl phthalate | 0.0985 | 0.117 | | ug/L | | 119 | 50 - 150 |
| Endosulfan I (Alpha) | 0.0985 | 0.0646 | J | ug/L | | 66 | 50 - 150 |
| Endosulfan II (Beta) | 0.0985 | 0.107 | | ug/L | | 108 | 50 - 150 |
| Endosulfan sulfate | 0.0985 | 0.0873 | J | ug/L | | 89 | 50 - 150 |
| Endrin | 0.0985 | 0.121 | | ug/L | | 123 | 50 - 150 |
| Endrin aldehyde | 0.0985 | ND | | ug/L | | 70 | 50 - 150 |
| EPTC | 0.0985 | 0.0922 | J | ug/L | | 94 | 50 - 150 |
| Fluoranthene | 0.0493 | 0.0489 | J | ug/L | | 99 | 50 - 150 |
| Fluorene | 0.0493 | 0.0500 | | ug/L | | 102 | 50 - 150 |
| gamma-Chlordane | 0.0246 | 0.0218 | J | ug/L | | 88 | 50 - 150 |
| Heptachlor | 0.0394 | 0.0564 | | ug/L | | 143 | 50 - 150 |
| Heptachlor epoxide (isomer B) | 0.0493 | 0.0393 | J | ug/L | | 80 | 50 - 150 |
| Hexachlorobenzene | 0.0493 | ND | | ug/L | | 80 | 50 - 150 |
| Hexachlorocyclopentadiene | 0.0493 | 0.0421 | J | ug/L | | 86 | 50 - 150 |
| Indeno[1,2,3-cd]pyrene | 0.0493 | 0.0442 | J | ug/L | | 90 | 50 - 150 |
| Isophorone | 0.0985 | 0.105 | J | ug/L | | 107 | 50 - 150 |
| Lindane | 0.0394 | 0.0434 | | ug/L | | 110 | 50 - 150 |
| Malathion | 0.0985 | 0.0978 | J | ug/L | | 99 | 50 - 150 |
| Methoxychlor | 0.0985 | 0.0853 | J | ug/L | | 87 | 50 - 150 |
| Metolachlor | 0.0493 | 0.0517 | | ug/L | | 105 | 50 - 150 |
| Metribuzin | 0.0493 | 0.0377 | J | ug/L | | 77 | 50 - 150 |
| Molinate | 0.0985 | 0.0973 | J | ug/L | | 99 | 50 - 150 |
| Naphthalene | 0.0985 | 0.0963 | J | ug/L | | 98 | 50 - 150 |
| Parathion | 0.0985 | 0.104 | | ug/L | | 106 | 50 - 150 |
| Pendimethalin (Penoxaline) | 0.0985 | 0.135 | | ug/L | | 137 | 50 - 150 |
| Phenanthrene | 0.0197 | 0.0257 | J | ug/L | | 130 | 50 - 150 |
| Propachlor | 0.0493 | 0.0458 | J | ug/L | | 93 | 50 - 150 |
| Pyrene | 0.0493 | 0.0462 | J | ug/L | | 94 | 50 - 150 |
| Simazine | 0.0493 | 0.0551 | | ug/L | | 112 | 50 - 150 |
| Terbacil | 0.0985 | 0.127 | | ug/L | | 129 | 50 - 150 |
| Terbutylazine | 0.0985 | 0.101 | | ug/L | | 102 | 50 - 150 |
| Thiobencarb | 0.0985 | 0.120 | J | ug/L | | 122 | 50 - 150 |
| trans-Nonachlor | 0.0246 | ND | | ug/L | | 85 | 50 - 150 |
| Trifluralin | 0.0985 | 0.122 | | ug/L | | 123 | 50 - 150 |

Eurofins Eaton Monrovia

QC Sample Results

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

Job ID: 380-26568-1

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

| <i>Surrogate</i> | <i>MRL %Recovery</i> | <i>MRL Qualifier</i> | <i>Limits</i> |
|--------------------|--------------------------|--------------------------|---------------|
| 2-Nitro-m-xylene | 97 | | 70 - 130 |
| Triphenylphosphate | 99 | | 70 - 130 |
| Perylene-d12 | 93 | | 70 - 130 |

Lab Sample ID: 380-26984-B-1-A MS
Matrix: Water
Analysis Batch: 23898

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 23750

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------------------------------|------------------|---------------------|----------------|--------------|-----------------|------|---|------|----------------|
| 2,4'-DDD | ND | | 2.01 | 2.08 | | ug/L | | 104 | 70 - 130 |
| 2,4'-DDE | ND | | 2.01 | 1.83 | | ug/L | | 91 | 70 - 130 |
| 2,4'-DDT | ND | | 2.01 | 1.98 | | ug/L | | 99 | 70 - 130 |
| 2,4-Dinitrotoluene | ND | | 2.01 | 1.88 | | ug/L | | 94 | 70 - 130 |
| 2,6-Dinitrotoluene | ND | | 2.01 | 2.10 | | ug/L | | 105 | 70 - 130 |
| 4,4'-DDD | ND | | 2.01 | 1.99 | | ug/L | | 99 | 70 - 130 |
| 4,4'-DDE | ND | | 2.01 | 2.01 | | ug/L | | 100 | 70 - 130 |
| 4,4'-DDT | ND | | 2.01 | 1.86 | | ug/L | | 93 | 70 - 130 |
| Acenaphthene | ND | | 2.01 | 1.99 | | ug/L | | 99 | 70 - 130 |
| Acenaphthylene | ND | | 2.01 | 2.18 | | ug/L | | 109 | 70 - 130 |
| Acetochlor | ND | | 2.01 | 2.12 | | ug/L | | 106 | 70 - 130 |
| Alachlor | ND | | 2.01 | 2.15 | | ug/L | | 107 | 70 - 130 |
| alpha-BHC | ND | | 2.01 | 2.00 | | ug/L | | 100 | 70 - 130 |
| alpha-Chlordane | ND | | 2.01 | 2.25 | | ug/L | | 112 | 70 - 130 |
| Anthracene | ND | F1 | 2.01 | 1.36 | F1 | ug/L | | 68 | 70 - 130 |
| Atrazine | ND | | 2.01 | 2.26 | | ug/L | | 113 | 70 - 130 |
| Benz(a)anthracene | ND | | 2.01 | 2.02 | | ug/L | | 101 | 70 - 130 |
| Benzo[a]pyrene | ND | | 2.01 | 1.93 | | ug/L | | 96 | 70 - 130 |
| Benzo[b]fluoranthene | ND | | 2.01 | 2.32 | | ug/L | | 116 | 70 - 130 |
| Benzo[g,h,i]perylene | ND | | 2.01 | 2.28 | | ug/L | | 114 | 70 - 130 |
| Benzo[k]fluoranthene | ND | | 2.01 | 2.26 | | ug/L | | 113 | 70 - 130 |
| beta-BHC | ND | | 2.01 | 1.93 | | ug/L | | 96 | 70 - 130 |
| Bromacil | ND | | 2.01 | 2.50 | | ug/L | | 124 | 70 - 130 |
| Butachlor | ND | | 2.01 | 2.14 | | ug/L | | 107 | 70 - 130 |
| Butylbenzylphthalate | ND | | 2.01 | 2.27 | | ug/L | | 113 | 70 - 130 |
| Caffeine | ND | | 2.01 | 1.79 | | ug/L | | 89 | 46 - 144 |
| Chlorobenzilate | ND | | 2.01 | 2.38 | | ug/L | | 119 | 70 - 130 |
| Chloroneb | ND | | 2.01 | 2.03 | | ug/L | | 101 | 70 - 130 |
| Chlorothalonil (Draconil, Bravo) | ND | | 2.01 | 2.05 | | ug/L | | 99 | 70 - 130 |
| Chlorpyrifos | ND | | 2.01 | 2.24 | | ug/L | | 112 | 70 - 130 |
| Chrysene | ND | | 2.01 | 2.22 | | ug/L | | 111 | 70 - 130 |
| delta-BHC | ND | | 2.01 | 1.96 | | ug/L | | 98 | 70 - 130 |
| Di(2-ethylhexyl)adipate | ND | B | 2.01 | 2.31 | | ug/L | | 104 | 70 - 130 |
| Bis(2-ethylhexyl) phthalate | ND | | 2.01 | 2.01 | | ug/L | | 100 | 70 - 130 |
| Diazinon (Qualitative) | ND | | 2.01 | 2.20 | | ug/L | | 110 | 15 - 132 |
| Dibenz(a,h)anthracene | ND | | 2.01 | 2.36 | | ug/L | | 118 | 70 - 130 |
| Diclorvos (DDVP) | ND | | 2.01 | 2.32 | | ug/L | | 116 | 70 - 130 |
| Dieldrin | ND | | 2.01 | 1.94 | | ug/L | | 97 | 70 - 130 |
| Diethylphthalate | ND | | 2.01 | 2.16 | | ug/L | | 104 | 70 - 130 |
| Dimethoate | ND | | 2.01 | 1.69 | | ug/L | | 84 | 34 - 111 |
| Dimethylphthalate | ND | F1 | 2.01 | 0.930 | F1 | ug/L | | 46 | 70 - 130 |
| Di-n-butyl phthalate | ND | | 4.01 | 4.06 | | ug/L | | 101 | 70 - 130 |

Eurofins Eaton Monrovia

QC Sample Results

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

Job ID: 380-26568-1

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

Lab Sample ID: 380-26984-B-1-A MS
Matrix: Water
Analysis Batch: 23898

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 23750

| Analyte | Sample | Sample | Spike | MS | MS | Unit | D | %Rec | %Rec |
|-------------------------------|--------|-----------|-------|------------------|------------------|------|---|------|---------------|
| | Result | Qualifier | Added | Result | Qualifier | | | | |
| Di-n-octyl phthalate | ND | | 2.01 | 1.85 | | ug/L | | 92 | 70 - 130 |
| Endosulfan I (Alpha) | ND | | 2.01 | 2.07 | | ug/L | | 103 | 70 - 130 |
| Endosulfan II (Beta) | ND | | 2.01 | 2.08 | | ug/L | | 104 | 70 - 130 |
| Endosulfan sulfate | ND | | 2.01 | 1.95 | | ug/L | | 97 | 70 - 130 |
| Endrin | ND | | 2.01 | 2.32 | | ug/L | | 116 | 70 - 130 |
| Endrin aldehyde | ND | | 2.01 | 1.83 | | ug/L | | 91 | 70 - 130 |
| EPTC | ND | | 2.01 | 2.26 | | ug/L | | 113 | 70 - 130 |
| Fluoranthene | ND | | 2.01 | 2.16 | | ug/L | | 108 | 70 - 130 |
| Fluorene | ND | | 2.01 | 1.99 | | ug/L | | 99 | 70 - 130 |
| gamma-Chlordane | ND | | 2.01 | 2.27 | | ug/L | | 113 | 70 - 130 |
| Heptachlor | ND | | 2.01 | 2.02 | | ug/L | | 99 | 70 - 130 |
| Heptachlor epoxide (isomer B) | ND | | 2.01 | 2.19 | | ug/L | | 109 | 70 - 130 |
| Hexachlorobenzene | ND | | 2.01 | 2.03 | | ug/L | | 101 | 70 - 130 |
| Hexachlorocyclopentadiene | ND | | 2.01 | 1.88 | | ug/L | | 94 | 70 - 130 |
| Indeno[1,2,3-cd]pyrene | ND | | 2.01 | 2.31 | | ug/L | | 115 | 70 - 130 |
| Isophorone | ND | | 2.01 | 2.15 | | ug/L | | 105 | 70 - 130 |
| Lindane | ND | | 2.01 | 1.99 | | ug/L | | 99 | 70 - 130 |
| Malathion | ND | | 2.01 | 2.39 | | ug/L | | 119 | 70 - 130 |
| Methoxychlor | ND | | 2.01 | 2.23 | | ug/L | | 111 | 70 - 130 |
| Metolachlor | ND | | 2.01 | 2.14 | | ug/L | | 107 | 70 - 130 |
| Metribuzin | ND | | 2.01 | 2.08 | | ug/L | | 104 | 70 - 130 |
| Molinate | ND | | 2.01 | 2.22 | | ug/L | | 111 | 70 - 130 |
| Naphthalene | ND | | 2.01 | 1.94 | | ug/L | | 97 | 70 - 130 |
| Parathion | ND | | 2.01 | 2.53 | | ug/L | | 126 | 70 - 130 |
| Pendimethalin (Penoxaline) | ND | | 2.01 | 1.91 | | ug/L | | 95 | 70 - 130 |
| Phenanthrene | ND | | 2.01 | 2.13 | | ug/L | | 106 | 70 - 130 |
| Propachlor | ND | | 2.01 | 2.05 | | ug/L | | 102 | 70 - 130 |
| Pyrene | ND | | 2.01 | 2.14 | | ug/L | | 107 | 70 - 130 |
| Simazine | ND | | 2.01 | 2.35 | | ug/L | | 117 | 70 - 130 |
| Terbacil | ND | | 2.01 | 2.32 | | ug/L | | 116 | 70 - 130 |
| Terbutylazine | ND | | 2.01 | 2.24 | | ug/L | | 112 | 70 - 130 |
| Thiobencarb | ND | | 2.01 | 2.22 | | ug/L | | 111 | 70 - 130 |
| trans-Nonachlor | ND | | 2.01 | 2.13 | | ug/L | | 106 | 70 - 130 |
| Trifluralin | ND | | 2.01 | 1.80 | | ug/L | | 90 | 70 - 130 |
| | | | | <i>MS</i> | <i>MS</i> | | | | |
| Surrogate | | | | %Recovery | Qualifier | | | | Limits |
| 2-Nitro-m-xylene | | | | 97 | | | | | 70 - 130 |
| Triphenylphosphate | | | | 102 | | | | | 70 - 130 |
| Perylene-d12 | | | | 97 | | | | | 70 - 130 |

Lab Sample ID: 380-26984-B-3-A DU
Matrix: Water
Analysis Batch: 23898

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 23750

| Analyte | Sample | Sample | DU | DU | Unit | D | RPD | RPD | Limit |
|----------|--------|-----------|--------|-----------|------|---|-----|-----|-------|
| | Result | Qualifier | Result | Qualifier | | | | | |
| 2,4'-DDD | ND | | ND | | ug/L | | | NC | 20 |
| 2,4'-DDE | ND | | ND | | ug/L | | | NC | 20 |
| 2,4'-DDT | ND | | ND | | ug/L | | | NC | 20 |

Eurofins Eaton Monrovia

QC Sample Results

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

Job ID: 380-26568-1

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

Lab Sample ID: 380-26984-B-3-A DU
Matrix: Water
Analysis Batch: 23898

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 23750

| Analyte | Sample | Sample | DU | DU | Unit | D | RPD | Limit |
|----------------------------------|--------|-----------|--------|-----------|------|---|-----|-------|
| | Result | Qualifier | Result | Qualifier | | | | |
| 2,4-Dinitrotoluene | ND | | ND | | ug/L | | NC | 20 |
| 2,6-Dinitrotoluene | ND | | 2.29 | | ug/L | | NC | 20 |
| 4,4'-DDD | ND | | ND | | ug/L | | NC | 20 |
| 4,4'-DDE | ND | | ND | | ug/L | | NC | 20 |
| 4,4'-DDT | ND | | ND | | ug/L | | NC | 20 |
| Acenaphthene | ND | | ND | | ug/L | | NC | 20 |
| Acenaphthylene | ND | | ND | | ug/L | | NC | 20 |
| Acetochlor | ND | | ND | | ug/L | | NC | 20 |
| Alachlor | ND | | ND | | ug/L | | NC | 20 |
| alpha-BHC | ND | | ND | | ug/L | | NC | 20 |
| alpha-Chlordane | ND | | ND | | ug/L | | NC | 20 |
| Anthracene | ND | | ND | | ug/L | | NC | 20 |
| Atrazine | ND | | ND | | ug/L | | NC | 20 |
| Benz(a)anthracene | ND | | ND | | ug/L | | NC | 20 |
| Benzo[a]pyrene | ND | | ND | | ug/L | | NC | 20 |
| Benzo[b]fluoranthene | ND | | ND | | ug/L | | NC | 20 |
| Benzo[g,h,i]perylene | ND | | ND | | ug/L | | NC | 20 |
| Benzo[k]fluoranthene | ND | | ND | | ug/L | | NC | 20 |
| beta-BHC | ND | | ND | | ug/L | | NC | 20 |
| Bromacil | ND | | ND | | ug/L | | NC | 20 |
| Butachlor | ND | | ND | | ug/L | | NC | 20 |
| Butylbenzylphthalate | ND | | ND | | ug/L | | NC | 20 |
| Caffeine | ND | | ND | | ug/L | | NC | 20 |
| Chlorobenzilate | ND | | ND | | ug/L | | NC | 20 |
| Chloroneb | ND | | ND | | ug/L | | NC | 20 |
| Chlorothalonil (Draconil, Bravo) | ND | | ND | | ug/L | | NC | 20 |
| Chlorpyrifos | ND | | ND | | ug/L | | NC | 20 |
| Chrysene | ND | | ND | | ug/L | | NC | 20 |
| delta-BHC | ND | | ND | | ug/L | | NC | 20 |
| Di(2-ethylhexyl)adipate | 1.2 | B | ND | B | ug/L | | NC | 20 |
| Bis(2-ethylhexyl) phthalate | ND | | ND | | ug/L | | NC | 20 |
| Diazinon (Qualitative) | ND | | ND | | ug/L | | NC | 20 |
| Dibenz(a,h)anthracene | ND | | ND | | ug/L | | NC | 20 |
| Diclorvos (DDVP) | ND | | ND | | ug/L | | NC | 20 |
| Dieldrin | ND | | ND | | ug/L | | NC | 20 |
| Diethylphthalate | ND | | ND | | ug/L | | NC | 20 |
| Dimethoate | ND | | ND | | ug/L | | NC | 20 |
| Dimethylphthalate | ND | | ND | | ug/L | | NC | 20 |
| Di-n-butyl phthalate | ND | | ND | | ug/L | | NC | 20 |
| Di-n-octyl phthalate | ND | | ND | | ug/L | | NC | 20 |
| Endosulfan I (Alpha) | ND | | ND | | ug/L | | NC | 20 |
| Endosulfan II (Beta) | ND | | ND | | ug/L | | NC | 20 |
| Endosulfan sulfate | ND | | ND | | ug/L | | NC | 20 |
| Endrin | ND | | ND | | ug/L | | NC | 20 |
| Endrin aldehyde | ND | | ND | | ug/L | | NC | 20 |
| EPTC | ND | | ND | | ug/L | | NC | 20 |
| Fluoranthene | ND | | ND | | ug/L | | NC | 20 |
| Fluorene | ND | | ND | | ug/L | | NC | 20 |
| gamma-Chlordane | ND | | ND | | ug/L | | NC | 20 |

Eurofins Eaton Monrovia

QC Sample Results

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

Job ID: 380-26568-1

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

Lab Sample ID: 380-26984-B-3-A DU
Matrix: Water
Analysis Batch: 23898

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 23750

| Analyte | Sample | Sample | DU | DU | Unit | D | RPD | Limit |
|----------------------------------|--------|-----------|--------|-----------|------|---|-----|-------|
| | Result | Qualifier | Result | Qualifier | | | | |
| Heptachlor | ND | | ND | | ug/L | | NC | 20 |
| Heptachlor epoxide (isomer B) | ND | | ND | | ug/L | | NC | 20 |
| Hexachlorobenzene | ND | | ND | | ug/L | | NC | 20 |
| Hexachlorocyclopentadiene | ND | | ND | | ug/L | | NC | 20 |
| Indeno[1,2,3-cd]pyrene | ND | | ND | | ug/L | | NC | 20 |
| Isophorone | ND | | ND | | ug/L | | NC | 20 |
| Lindane | ND | | ND | | ug/L | | NC | 20 |
| Malathion | ND | | ND | | ug/L | | NC | 20 |
| Methoxychlor | ND | | ND | | ug/L | | NC | 20 |
| Metolachlor | ND | | ND | | ug/L | | NC | 20 |
| Metribuzin | ND | | ND | | ug/L | | NC | 20 |
| Molinate | ND | | ND | | ug/L | | NC | 20 |
| Naphthalene | ND | | ND | | ug/L | | NC | 20 |
| Parathion | ND | | ND | | ug/L | | NC | 20 |
| Pendimethalin (Penoxaline) | ND | | ND | | ug/L | | NC | 20 |
| Total Permethrin (mixed isomers) | ND | | ND | | ug/L | | NC | 20 |
| Phenanthrene | ND | | ND | | ug/L | | NC | 20 |
| Propachlor | ND | | ND | | ug/L | | NC | 20 |
| Pyrene | ND | | ND | | ug/L | | NC | 20 |
| Simazine | ND | | ND | | ug/L | | NC | 20 |
| Terbacil | ND | | ND | | ug/L | | NC | 20 |
| Terbutylazine | ND | | ND | | ug/L | | NC | 20 |
| Thiobencarb | ND | | ND | | ug/L | | NC | 20 |
| trans-Nonachlor | ND | | ND | | ug/L | | NC | 20 |
| Trifluralin | ND | | ND | | ug/L | | NC | 20 |

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

Method: 625 PAH Physis LL (EAL) + TICs - EPA 625 Base/Neutral and Acid Organics i

Lab Sample ID: 101199-B1
Matrix: BlankMatrix
Analysis Batch: O-40010

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: O-40010_P

| Analyte | Blank | Blank | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------|--------|-----------|-------|-------|------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| 1-Methylnaphthalene | ND | | 0.005 | 0.001 | µg/L | | 10/31/22 00:00 | 11/15/22 00:32 | 1 |
| 1-Methylphenanthrene | ND | | 0.005 | 0.001 | µg/L | | 10/31/22 00:00 | 11/15/22 00:32 | 1 |
| 2,3,5-Trimethylnaphthalene | ND | | 0.005 | 0.001 | µg/L | | 10/31/22 00:00 | 11/15/22 00:32 | 1 |
| 2,6-Dimethylnaphthalene | ND | | 0.005 | 0.001 | µg/L | | 10/31/22 00:00 | 11/15/22 00:32 | 1 |
| 2-Methylnaphthalene | ND | | 0.005 | 0.001 | µg/L | | 10/31/22 00:00 | 11/15/22 00:32 | 1 |
| Acenaphthene | ND | | 0.005 | 0.001 | µg/L | | 10/31/22 00:00 | 11/15/22 00:32 | 1 |
| Acenaphthylene | ND | | 0.005 | 0.001 | µg/L | | 10/31/22 00:00 | 11/15/22 00:32 | 1 |
| Anthracene | ND | | 0.005 | 0.001 | µg/L | | 10/31/22 00:00 | 11/15/22 00:32 | 1 |
| Benz[a]anthracene | ND | | 0.005 | 0.001 | µg/L | | 10/31/22 00:00 | 11/15/22 00:32 | 1 |
| Benzo[a]pyrene | ND | | 0.005 | 0.001 | µg/L | | 10/31/22 00:00 | 11/15/22 00:32 | 1 |
| Benzo[b]fluoranthene | ND | | 0.005 | 0.001 | µg/L | | 10/31/22 00:00 | 11/15/22 00:32 | 1 |

Eurofins Eaton Monrovia

QC Sample Results

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

Job ID: 380-26568-1

Method: 625 PAH Physis LL (EAL) + TICs - EPA 625 Base/Neutral and Acid Organics i (Continued)

Lab Sample ID: 101199-B1
Matrix: BlankMatrix
Analysis Batch: O-40010

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: O-40010_P

| Analyte | Blank Result | Blank Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|--------------|-----------------|-------|-------|------|---|----------------|----------------|---------|
| Benzo[e]pyrene | ND | | 0.005 | 0.001 | µg/L | | 10/31/22 00:00 | 11/15/22 00:32 | 1 |
| Benzo[g,h,i]perylene | ND | | 0.005 | 0.001 | µg/L | | 10/31/22 00:00 | 11/15/22 00:32 | 1 |
| Benzo[k]fluoranthene | ND | | 0.005 | 0.001 | µg/L | | 10/31/22 00:00 | 11/15/22 00:32 | 1 |
| Biphenyl | ND | | 0.005 | 0.001 | µg/L | | 10/31/22 00:00 | 11/15/22 00:32 | 1 |
| Chrysene | ND | | 0.005 | 0.001 | µg/L | | 10/31/22 00:00 | 11/15/22 00:32 | 1 |
| Dibenz[a,h]anthracene | ND | | 0.005 | 0.001 | µg/L | | 10/31/22 00:00 | 11/15/22 00:32 | 1 |
| Dibenzo[a,l]pyrene | ND | | 0.005 | 0.001 | µg/L | | 10/31/22 00:00 | 11/15/22 00:32 | 1 |
| Dibenzothiophene | ND | | 0.005 | 0.001 | µg/L | | 10/31/22 00:00 | 11/15/22 00:32 | 1 |
| Disalicylidenepropanediamine | ND | | 0.1 | 0.05 | µg/L | | 10/31/22 00:00 | 11/15/22 00:32 | 1 |
| Fluoranthene | ND | | 0.005 | 0.001 | µg/L | | 10/31/22 00:00 | 11/15/22 00:32 | 1 |
| Fluorene | ND | | 0.005 | 0.001 | µg/L | | 10/31/22 00:00 | 11/15/22 00:32 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 0.005 | 0.001 | µg/L | | 10/31/22 00:00 | 11/15/22 00:32 | 1 |
| Naphthalene | ND | | 0.005 | 0.001 | µg/L | | 10/31/22 00:00 | 11/15/22 00:32 | 1 |
| Perylene | ND | | 0.005 | 0.001 | µg/L | | 10/31/22 00:00 | 11/15/22 00:32 | 1 |
| Phenanthrene | ND | | 0.005 | 0.001 | µg/L | | 10/31/22 00:00 | 11/15/22 00:32 | 1 |
| Pyrene | ND | | 0.005 | 0.001 | µg/L | | 10/31/22 00:00 | 11/15/22 00:32 | 1 |

| Surrogate | Blank %Recovery | Blank Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|--------------------|-----------------|-----------------|----------|----------------|----------------|---------|
| (d10-Acenaphthene) | 84 | | 27 - 133 | 10/31/22 00:00 | 11/15/22 00:32 | 1 |
| (d10-Phenanthrene) | 85 | | 43 - 129 | 10/31/22 00:00 | 11/15/22 00:32 | 1 |
| (d12-Chrysene) | 111 | | 52 - 144 | 10/31/22 00:00 | 11/15/22 00:32 | 1 |
| (d12-Perylene) | 87 | | 36 - 161 | 10/31/22 00:00 | 11/15/22 00:32 | 1 |
| (d8-Naphthalene) | 59 | | 25 - 125 | 10/31/22 00:00 | 11/15/22 00:32 | 1 |

Lab Sample ID: 101199-BS1
Matrix: BlankMatrix
Analysis Batch: O-40010

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: O-40010_P

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------------------------|-------------|------------|---------------|------|---|------|-------------|
| 1-Methylnaphthalene | 0.5 | 0.333 | | µg/L | | 67 | 31 - 128 |
| 1-Methylphenanthrene | 0.5 | 0.468 | | µg/L | | 94 | 66 - 127 |
| 2,3,5-Trimethylnaphthalene | 0.5 | 0.454 | | µg/L | | 91 | 55 - 122 |
| 2,6-Dimethylnaphthalene | 0.5 | 0.355 | | µg/L | | 71 | 48 - 120 |
| 2-Methylnaphthalene | 0.5 | 0.418 | | µg/L | | 84 | 47 - 130 |
| Acenaphthene | 0.5 | 0.436 | | µg/L | | 87 | 53 - 131 |
| Acenaphthylene | 0.5 | 0.377 | | µg/L | | 75 | 43 - 140 |
| Anthracene | 0.5 | 0.457 | | µg/L | | 91 | 58 - 135 |
| Benz[a]anthracene | 0.5 | 0.383 | | µg/L | | 77 | 55 - 145 |
| Benzo[a]pyrene | 0.5 | 0.418 | | µg/L | | 84 | 51 - 143 |
| Benzo[b]fluoranthene | 0.5 | 0.498 | | µg/L | | 100 | 46 - 165 |
| Benzo[e]pyrene | 0.5 | 0.488 | | µg/L | | 98 | 42 - 152 |
| Benzo[g,h,i]perylene | 0.5 | 0.449 | | µg/L | | 90 | 63 - 133 |
| Benzo[k]fluoranthene | 0.5 | 0.493 | | µg/L | | 99 | 56 - 145 |
| Biphenyl | 0.5 | 0.363 | | µg/L | | 73 | 56 - 119 |
| Chrysene | 0.5 | 0.409 | | µg/L | | 82 | 56 - 141 |
| Dibenz[a,h]anthracene | 0.5 | 0.471 | | µg/L | | 94 | 55 - 150 |
| Dibenzo[a,l]pyrene | 0.25 | 0.163 | | µg/L | | 65 | 50 - 150 |
| Dibenzothiophene | 0.5 | 0.452 | | µg/L | | 90 | 75 - 113 |

Eurofins Eaton Monrovia

QC Sample Results

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

Job ID: 380-26568-1

Method: 625 PAH Physis LL (EAL) + TICs - EPA 625 Base/Neutral and Acid Organics i (Continued)

Lab Sample ID: 101199-BS1
Matrix: BlankMatrix
Analysis Batch: O-40010

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: O-40010_P

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------------------------|-------------|------------|---------------|------|---|------|-------------|
| Disalicylidenepranediamine | 50 | 24.8 | | µg/L | | 50 | 50 - 150 |
| Fluoranthene | 0.5 | 0.394 | | µg/L | | 79 | 60 - 146 |
| Fluorene | 0.5 | 0.443 | | µg/L | | 89 | 58 - 131 |
| Indeno[1,2,3-cd]pyrene | 0.5 | 0.479 | | µg/L | | 96 | 50 - 151 |
| Naphthalene | 0.5 | 0.349 | | µg/L | | 70 | 41 - 126 |
| Perylene | 0.5 | 0.463 | | µg/L | | 93 | 48 - 141 |
| Phenanthrene | 0.5 | 0.478 | | µg/L | | 96 | 67 - 127 |
| Pyrene | 0.5 | 0.369 | | µg/L | | 74 | 54 - 156 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|--------------------|---------------|---------------|----------|
| (d10-Acenaphthene) | 86 | | 27 - 133 |
| (d10-Phenanthrene) | 94 | | 43 - 129 |
| (d12-Chrysene) | 89 | | 52 - 144 |
| (d12-Perylene) | 90 | | 36 - 161 |
| (d8-Naphthalene) | 69 | | 25 - 125 |

Lab Sample ID: 101199-BS2
Matrix: BlankMatrix
Analysis Batch: O-40010

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: O-40010_P

| Analyte | Spike Added | LCS DUP Result | LCS DUP Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------------------------|-------------|----------------|-------------------|------|---|------|-------------|-----|-----------|
| 1-Methylnaphthalene | 0.5 | 0.315 | | µg/L | | 63 | 31 - 128 | 6 | 30 |
| 1-Methylphenanthrene | 0.5 | 0.449 | | µg/L | | 90 | 66 - 127 | 4 | 30 |
| 2,3,5-Trimethylnaphthalene | 0.5 | 0.411 | | µg/L | | 82 | 55 - 122 | 10 | 30 |
| 2,6-Dimethylnaphthalene | 0.5 | 0.396 | | µg/L | | 79 | 48 - 120 | 11 | 30 |
| 2-Methylnaphthalene | 0.5 | 0.34 | | µg/L | | 68 | 47 - 130 | 21 | 30 |
| Acenaphthene | 0.5 | 0.404 | | µg/L | | 81 | 53 - 131 | 7 | 30 |
| Acenaphthylene | 0.5 | 0.408 | | µg/L | | 82 | 43 - 140 | 9 | 30 |
| Anthracene | 0.5 | 0.445 | | µg/L | | 89 | 58 - 135 | 2 | 30 |
| Benz[a]anthracene | 0.5 | 0.384 | | µg/L | | 77 | 55 - 145 | 0 | 30 |
| Benzo[a]pyrene | 0.5 | 0.41 | | µg/L | | 82 | 51 - 143 | 2 | 30 |
| Benzo[b]fluoranthene | 0.5 | 0.509 | | µg/L | | 102 | 46 - 165 | 2 | 30 |
| Benzo[e]pyrene | 0.5 | 0.479 | | µg/L | | 96 | 42 - 152 | 2 | 30 |
| Benzo[g,h,i]perylene | 0.5 | 0.426 | | µg/L | | 85 | 63 - 133 | 6 | 30 |
| Benzo[k]fluoranthene | 0.5 | 0.482 | | µg/L | | 96 | 56 - 145 | 3 | 30 |
| Biphenyl | 0.5 | 0.393 | | µg/L | | 79 | 56 - 119 | 8 | 30 |
| Chrysene | 0.5 | 0.411 | | µg/L | | 82 | 56 - 141 | 0 | 30 |
| Dibenz[a,h]anthracene | 0.5 | 0.499 | | µg/L | | 100 | 55 - 150 | 6 | 30 |
| Dibenzo[a,l]pyrene | 0.25 | 0.134 | | µg/L | | 54 | 50 - 150 | 18 | 30 |
| Dibenzothiophene | 0.5 | 0.443 | | µg/L | | 89 | 75 - 113 | 1 | 30 |
| Disalicylidenepranediamine | 50 | 25.5 | | µg/L | | 51 | 50 - 150 | 2 | 30 |
| Fluoranthene | 0.5 | 0.468 | | µg/L | | 94 | 60 - 146 | 17 | 30 |
| Fluorene | 0.5 | 0.411 | | µg/L | | 82 | 58 - 131 | 8 | 30 |
| Indeno[1,2,3-cd]pyrene | 0.5 | 0.48 | | µg/L | | 96 | 50 - 151 | 0 | 30 |
| Naphthalene | 0.5 | 0.364 | | µg/L | | 73 | 41 - 126 | 4 | 30 |
| Perylene | 0.5 | 0.465 | | µg/L | | 93 | 48 - 141 | 0 | 30 |
| Phenanthrene | 0.5 | 0.449 | | µg/L | | 90 | 67 - 127 | 6 | 30 |
| Pyrene | 0.5 | 0.457 | | µg/L | | 91 | 54 - 156 | 21 | 30 |

Eurofins Eaton Monrovia

QC Sample Results

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

Job ID: 380-26568-1

Method: 625 PAH Physis LL (EAL) + TICs - EPA 625 Base/Neutral and Acid Organics i (Continued)

Lab Sample ID: 101199-BS2
Matrix: BlankMatrix
Analysis Batch: O-40010

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: O-40010_P

| Surrogate | LCS DUP %Recovery | LCS DUP Qualifier | Limits |
|--------------------|----------------------|----------------------|----------|
| (d10-Acenaphthene) | 81 | | 27 - 133 |
| (d10-Phenanthrene) | 91 | | 43 - 129 |
| (d12-Chrysene) | 89 | | 52 - 144 |
| (d12-Perylene) | 88 | | 36 - 161 |
| (d8-Naphthalene) | 72 | | 25 - 125 |

Method: 8015 Gas (Purgeable) LL (EAL) - SW846 8015B Gasoline Range Organics

Lab Sample ID: 22VGH7K03B
Matrix: WATER
Analysis Batch: 22VGH7K03

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------------|-----------------|-------|-----|------|---|----------|----------------|---------|
| GASOLINE | ND | U | 0.020 | | mg/L | | | 11/03/22 14:27 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|--------------------|-----------------|-----------------|--------|----------|----------------|---------|
| BROMOFLUOROBENZENE | | | | | 11/03/22 14:27 | 1 |

Lab Sample ID: 22VGH7K03L
Matrix: WATER
Analysis Batch: 22VGH7K03

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|----------------|---------------|------------------|------|---|------|----------------|
| GASOLINE | 0.500 | 0.509 | | mg/L | | 102 | 60 - 130 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|--------------------|------------------|------------------|----------|
| BROMOFLUOROBENZENE | 119 | | 70 - 130 |

Lab Sample ID: 22K032-01M
Matrix: WATER
Analysis Batch: 22VGH7K03

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 | ND | | 0.500 | 0.470 | | mg/L | | 94 | 50 - 130 |

| Surrogate | MS %Recovery | MS Qualifier | Limits |
|--------------------|-----------------|-----------------|----------|
| BROMOFLUOROBENZENE | 101 | | 60 - 140 |

Lab Sample ID: 22K032-01S
Matrix: WATER
Analysis Batch: 22VGH7K03

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 | ND | | 0.500 | 0.444 | | mg/L | | 89 | 50 - 130 | 6 | 30 |

| Surrogate | MSD %Recovery | MSD Qualifier | Limits |
|--------------------|------------------|------------------|----------|
| BROMOFLUOROBENZENE | 110 | | 60 - 140 |

Eurofins Eaton Monrovia

QC Sample Results

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

Job ID: 380-26568-1

Method: 8015 LL DRO/MRO/JP5/JP8 - 8015 - TPH DRO/ORO

Lab Sample ID: 22DSK016WB
Matrix: WATER
Analysis Batch: 22DSK016W

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

| Analyte | MB MB | | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|-------|-----|------|---|----------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| DIESEL | ND | U | 0.025 | | mg/L | | | 11/11/22 15:40 | 1 |
| JP5 | ND | U | 0.050 | | mg/L | | | 11/11/22 15:40 | 1 |
| JP8 | ND | U | 0.050 | | mg/L | | | 11/11/22 15:40 | 1 |
| MOTOR OIL | ND | U | 0.050 | | mg/L | | | 11/11/22 15:40 | 1 |

| Surrogate | MB MB | | Limits | Prepared | Analyzed | Dil Fac |
|--------------|-----------|-----------|--------|----------|----------------|---------|
| | %Recovery | Qualifier | | | | |
| BROMOBENZENE | | | | | 11/11/22 15:40 | 1 |
| HEXACOSANE | | | | | 11/11/22 15:40 | 1 |

Lab Sample ID: 22DSK016WL
Matrix: WATER
Analysis Batch: 22DSK016W

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

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

| Surrogate | LCS LCS | | Limits |
|--------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| BROMOBENZENE | 101 | | 60 - 130 |
| HEXACOSANE | 105 | | 60 - 130 |

Lab Sample ID: 22J5K016WL
Matrix: WATER
Analysis Batch: 22DSK016W

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

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

| Surrogate | LCS LCS | | Limits |
|--------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| BROMOBENZENE | 99 | | 60 - 130 |
| HEXACOSANE | 106 | | 60 - 130 |

Lab Sample ID: 22J8K016WL
Matrix: WATER
Analysis Batch: 22DSK016W

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

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

| Surrogate | LCS LCS | | Limits |
|--------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| BROMOBENZENE | 95 | | 60 - 130 |
| HEXACOSANE | 105 | | 60 - 130 |

QC Association Summary

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

Job ID: 380-26568-1

GC/MS Semi VOA

Prep Batch: 23097

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|----------------------------|-----------|----------------|--------|------------|
| 380-26568-2 | AIEA WELLS PUMPS 1&2 (260) | Total/NA | Drinking Water | 525.2 | |
| 380-26568-3 | AIEA GULCH WELLS PUMP 2 | Total/NA | Drinking Water | 525.2 | |
| MB 380-23097/1-A | Method Blank | Total/NA | Water | 525.2 | |
| LCS 380-23097/3-A | Lab Control Sample | Total/NA | Water | 525.2 | |
| LCSD 380-23097/4-A | Lab Control Sample Dup | Total/NA | Water | 525.2 | |
| MRL 380-23097/2-A | Lab Control Sample | Total/NA | Water | 525.2 | |
| 380-26348-AS-1-A MS | Matrix Spike | Total/NA | Water | 525.2 | |
| 380-26568-3 DU | AIEA GULCH WELLS PUMP 2 | Total/NA | Drinking Water | 525.2 | |

Analysis Batch: 23432

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|----------------------------|-----------|----------------|--------|------------|
| 380-26568-2 | AIEA WELLS PUMPS 1&2 (260) | Total/NA | Drinking Water | 525.2 | 23097 |
| 380-26568-3 | AIEA GULCH WELLS PUMP 2 | Total/NA | Drinking Water | 525.2 | 23097 |
| MB 380-23097/1-A | Method Blank | Total/NA | Water | 525.2 | 23097 |
| LCS 380-23097/3-A | Lab Control Sample | Total/NA | Water | 525.2 | 23097 |
| LCSD 380-23097/4-A | Lab Control Sample Dup | Total/NA | Water | 525.2 | 23097 |
| MRL 380-23097/2-A | Lab Control Sample | Total/NA | Water | 525.2 | 23097 |
| 380-26348-AS-1-A MS | Matrix Spike | Total/NA | Water | 525.2 | 23097 |
| 380-26568-3 DU | AIEA GULCH WELLS PUMP 2 | Total/NA | Drinking Water | 525.2 | 23097 |

Prep Batch: 23750

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|-------------------------|-----------|----------------|--------|------------|
| 380-26568-1 | AIEA GULCH WELLS PUMP 1 | Total/NA | Drinking Water | 525.2 | |
| MB 380-23750/1-A | Method Blank | Total/NA | Water | 525.2 | |
| LCS 380-23750/3-A | Lab Control Sample | Total/NA | Water | 525.2 | |
| LCSD 380-23750/4-A | Lab Control Sample Dup | Total/NA | Water | 525.2 | |
| MRL 380-23750/2-A | Lab Control Sample | Total/NA | Water | 525.2 | |
| 380-26984-B-1-A MS | Matrix Spike | Total/NA | Water | 525.2 | |
| 380-26984-B-3-A DU | Duplicate | Total/NA | Water | 525.2 | |

Analysis Batch: 23898

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|-------------------------|-----------|----------------|--------|------------|
| 380-26568-1 | AIEA GULCH WELLS PUMP 1 | Total/NA | Drinking Water | 525.2 | 23750 |
| MB 380-23750/1-A | Method Blank | Total/NA | Water | 525.2 | 23750 |
| LCS 380-23750/3-A | Lab Control Sample | Total/NA | Water | 525.2 | 23750 |
| LCSD 380-23750/4-A | Lab Control Sample Dup | Total/NA | Water | 525.2 | 23750 |
| MRL 380-23750/2-A | Lab Control Sample | Total/NA | Water | 525.2 | 23750 |
| 380-26984-B-1-A MS | Matrix Spike | Total/NA | Water | 525.2 | 23750 |
| 380-26984-B-3-A DU | Duplicate | Total/NA | Water | 525.2 | 23750 |

Subcontract

Analysis Batch: O-40010

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|----------------------------|-----------|----------------|-----------------------------------|------------|
| 380-26568-1 | AIEA GULCH WELLS PUMP 1 | Total/NA | Drinking Water | 625 PAH Physis LL (EAL) + TICs | O-40010_P |
| 380-26568-1 | AIEA GULCH WELLS PUMP 1 | Total/NA | Drinking Water | 625 PAH Physis LL (EAL) + TICs | O-40010_P |
| 380-26568-2 | AIEA WELLS PUMPS 1&2 (260) | Total/NA | Drinking Water | 625 PAH Physis LL (EAL) + TICs | O-40010_P |
| 380-26568-3 | AIEA GULCH WELLS PUMP 2 | Total/NA | Drinking Water | 625 PAH Physis LL (EAL) + TICs | O-40010_P |

Eurofins Eaton Monrovia

QC Association Summary

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

Job ID: 380-26568-1

Subcontract (Continued)

Analysis Batch: O-40010 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|-------------------------|-----------|----------------|-----------------------------------|------------|
| 380-26568-3 | AIEA GULCH WELLS PUMP 2 | Total/NA | Drinking Water | 625 PAH Physis LL (EAL) + TICs | O-40010_P |
| 101199-B1 | Method Blank | Total/NA | BlankMatrix | 625 PAH Physis LL (EAL) + TICs | O-40010_P |
| 101199-BS1 | Lab Control Sample | Total/NA | BlankMatrix | 625 PAH Physis LL (EAL) + TICs | O-40010_P |
| 101199-BS2 | Lab Control Sample Dup | Total/NA | BlankMatrix | 625 PAH Physis LL (EAL) + TICs | O-40010_P |

Analysis Batch: 22DSK016W

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|----------------------------|-----------|----------------|--------------------------------|------------|
| 380-26568-1 | AIEA GULCH WELLS PUMP 1 | Total/NA | Drinking Water | 8015 LL DRO/MRO/JP5/J P8 | |
| 380-26568-2 | AIEA WELLS PUMPS 1&2 (260) | Total/NA | Drinking Water | 8015 LL DRO/MRO/JP5/J P8 | |
| 380-26568-3 | AIEA GULCH WELLS PUMP 2 | Total/NA | Drinking Water | 8015 LL DRO/MRO/JP5/J P8 | |
| 22DSK016WB | Method Blank | Total/NA | WATER | 8015 LL DRO/MRO/JP5/J P8 | |
| 22DSK016WL | Lab Control Sample | Total/NA | WATER | 8015 LL DRO/MRO/JP5/J P8 | |
| 22J5K016WL | Lab Control Sample | Total/NA | WATER | 8015 LL DRO/MRO/JP5/J P8 | |
| 22J8K016WL | Lab Control Sample | Total/NA | WATER | 8015 LL DRO/MRO/JP5/J P8 | |

Analysis Batch: 22VGH7K03

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------------------|-----------|----------------|-------------------------------------|------------|
| 380-26568-1 | AIEA GULCH WELLS PUMP 1 | Total/NA | Drinking Water | 8015 Gas (Purgeable) LL (EAL) | |
| 380-26568-2 | AIEA WELLS PUMPS 1&2 (260) | Total/NA | Drinking Water | 8015 Gas (Purgeable) LL (EAL) | |
| 380-26568-3 | AIEA GULCH WELLS PUMP 2 | Total/NA | Drinking Water | 8015 Gas (Purgeable) LL (EAL) | |
| 380-26568-4 | TB AIEA GULCH WELLS PUMP1 | Total/NA | Drinking Water | 8015 Gas (Purgeable) LL (EAL) | |
| 380-26568-5 | TB AIEA GULCH WELLS PUMP2 | Total/NA | Drinking Water | 8015 Gas (Purgeable) LL (EAL) | |
| 380-26568-6 | TB AIEA WELLS PUMP 1&2 (260) | Total/NA | Drinking Water | 8015 Gas (Purgeable) LL (EAL) | |
| 22VGH7K03B | Method Blank | Total/NA | WATER | 8015 Gas (Purgeable) LL (EAL) | |

QC Association Summary

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

Job ID: 380-26568-1

Subcontract (Continued)

Analysis Batch: 22VGH7K03 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------------|-----------|--------|-------------------------------------|------------|
| 22VGH7K03L | Lab Control Sample | Total/NA | WATER | 8015 Gas (Purgeable) LL (EAL) | |
| 22K032-01M | Matrix Spike | Total/NA | WATER | 8015 Gas (Purgeable) LL (EAL) | |
| 22K032-01S | Matrix Spike Duplicate | Total/NA | WATER | 8015 Gas (Purgeable) LL (EAL) | |

Prep Batch: O-40010_P

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|----------------------------|-----------|----------------|---------|------------|
| 380-26568-1 | AIEA GULCH WELLS PUMP 1 | Total/NA | Drinking Water | EPA_625 | |
| 380-26568-1 | AIEA GULCH WELLS PUMP 1 | Total/NA | Drinking Water | EPA_625 | |
| 380-26568-2 | AIEA WELLS PUMPS 1&2 (260) | Total/NA | Drinking Water | EPA_625 | |
| 380-26568-3 | AIEA GULCH WELLS PUMP 2 | Total/NA | Drinking Water | EPA_625 | |
| 380-26568-3 | AIEA GULCH WELLS PUMP 2 | Total/NA | Drinking Water | EPA_625 | |
| 101199-B1 | Method Blank | Total/NA | BlankMatrix | EPA_625 | |
| 101199-BS1 | Lab Control Sample | Total/NA | BlankMatrix | EPA_625 | |
| 101199-BS2 | Lab Control Sample Dup | Total/NA | BlankMatrix | EPA_625 | |



Lab Chronicle

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

Job ID: 380-26568-1

Client Sample ID: AIEA GULCH WELLS PUMP 1

Lab Sample ID: 380-26568-1

Date Collected: 10/31/22 10:24

Matrix: Drinking Water

Date Received: 11/01/22 10:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------------------------|-----|-----------------|--------------|---------|--------|----------------------|
| Total/NA | Prep | 525.2 | | | 23750 | N8NE | EA MON | 11/09/22 12:19 |
| Total/NA | Analysis | 525.2 | | 1 | 23898 | UJC9 | EA MON | 11/10/22 21:47 |
| Total/NA | Prep | EPA_625 | | 1 | O-40010_P | | | 11/03/22 00:00 |
| Total/NA | Analysis | 625 PAH Physis LL (EAL) + TICs | | 1 | O-40010 | YC | | 11/15/22 14:12 |
| Total/NA | Prep | EPA_625 | | 1 | O-40010_P | | | 11/03/22 00:00 |
| Total/NA | Analysis | 625 PAH Physis LL (EAL) + TICs | | 1 | O-40010 | YC | | 11/16/22 09:57 |
| Total/NA | Analysis | 8015 Gas (Purgeable) LL (EAL) | | 1 | 22VGH7K03 | SCerva | | 11/03/22 16:16 |
| Total/NA | Analysis | 8015 LL DRO/MRO/JP5/JP8 | | 1 | 22DSK016W | SDees | | 11/11/22 17:50 |

Client Sample ID: AIEA WELLS PUMPS 1&2 (260)

Lab Sample ID: 380-26568-2

Date Collected: 10/31/22 10:03

Matrix: Drinking Water

Date Received: 11/01/22 10:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------------------------|-----|-----------------|--------------|---------|--------|----------------------|
| Total/NA | Prep | 525.2 | | | 23097 | N8NE | EA MON | 11/03/22 12:55 |
| Total/NA | Analysis | 525.2 | | 1 | 23432 | UJC9 | EA MON | 11/07/22 13:49 |
| Total/NA | Prep | EPA_625 | | 1 | O-40010_P | | | 11/03/22 00:00 |
| Total/NA | Analysis | 625 PAH Physis LL (EAL) + TICs | | 1 | O-40010 | YC | | 11/16/22 08:14 |
| Total/NA | Analysis | 8015 Gas (Purgeable) LL (EAL) | | 1 | 22VGH7K03 | SCerva | | 11/03/22 18:06 |
| Total/NA | Analysis | 8015 LL DRO/MRO/JP5/JP8 | | 1 | 22DSK016W | SDees | | 11/11/22 18:08 |

Client Sample ID: AIEA GULCH WELLS PUMP 2

Lab Sample ID: 380-26568-3

Date Collected: 10/31/22 10:38

Matrix: Drinking Water

Date Received: 11/01/22 10:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------------------------|-----|-----------------|--------------|---------|--------|----------------------|
| Total/NA | Prep | 525.2 | | | 23097 | N8NE | EA MON | 11/03/22 12:55 |
| Total/NA | Analysis | 525.2 | | 1 | 23432 | UJC9 | EA MON | 11/07/22 14:09 |
| Total/NA | Prep | EPA_625 | | 1 | O-40010_P | | | 11/03/22 00:00 |
| Total/NA | Analysis | 625 PAH Physis LL (EAL) + TICs | | 1 | O-40010 | YC | | 11/15/22 14:12 |
| Total/NA | Prep | EPA_625 | | 1 | O-40010_P | | | 11/03/22 00:00 |
| Total/NA | Analysis | 625 PAH Physis LL (EAL) + TICs | | 1 | O-40010 | YC | | 11/16/22 09:57 |
| Total/NA | Analysis | 8015 Gas (Purgeable) LL (EAL) | | 1 | 22VGH7K03 | SCerva | | 11/03/22 18:42 |
| Total/NA | Analysis | 8015 LL DRO/MRO/JP5/JP8 | | 1 | 22DSK016W | SDees | | 11/11/22 18:27 |

Lab Chronicle

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

Job ID: 380-26568-1

Client Sample ID: TB AIEA GULCH WELLS PUMP1

Lab Sample ID: 380-26568-4

Date Collected: 10/31/22 10:24

Matrix: Drinking Water

Date Received: 11/01/22 10:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|----------------------------------|-----|-----------------|--------------|---------|-----|----------------------|
| Total/NA | Analysis | 8015 Gas (Purgeable) LL (EAL) | | 1 | 22VGH7K03 | SCerva | | 11/03/22 19:18 |

Client Sample ID: TB AIEA GULCH WELLS PUMP2

Lab Sample ID: 380-26568-5

Date Collected: 10/31/22 10:38

Matrix: Drinking Water

Date Received: 11/01/22 10:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|----------------------------------|-----|-----------------|--------------|---------|-----|----------------------|
| Total/NA | Analysis | 8015 Gas (Purgeable) LL (EAL) | | 1 | 22VGH7K03 | SCerva | | 11/03/22 19:55 |

Client Sample ID: TB AIEA WELLS PUMP 1&2 (260)

Lab Sample ID: 380-26568-6

Date Collected: 10/31/22 10:03

Matrix: Drinking Water

Date Received: 11/01/22 10:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|----------------------------------|-----|-----------------|--------------|---------|-----|----------------------|
| Total/NA | Analysis | 8015 Gas (Purgeable) LL (EAL) | | 1 | 22VGH7K03 | SCerva | | 11/03/22 20:31 |

Laboratory References:

= Physis Environmental Laboratories, 1904 Wright Circle, Anaheim, CA 92806

EA MON = Eurofins Eaton Monrovia, 750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016, TEL (626)386-1100

Accreditation/Certification Summary

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

Job ID: 380-26568-1

Laboratory: Eurofins Eaton Monrovia

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

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| Hawaii | State | CA00006 | 01-31-23 |

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

| Analysis Method | Prep Method | Matrix | Analyte |
|-----------------|-------------|----------------|----------------------------------|
| 525.2 | 525.2 | Drinking Water | 2,4'-DDD |
| 525.2 | 525.2 | Drinking Water | 2,4'-DDE |
| 525.2 | 525.2 | Drinking Water | 2,4'-DDT |
| 525.2 | 525.2 | Drinking Water | 2,4-Dinitrotoluene |
| 525.2 | 525.2 | Drinking Water | 2,6-Dinitrotoluene |
| 525.2 | 525.2 | Drinking Water | 4,4'-DDD |
| 525.2 | 525.2 | Drinking Water | 4,4'-DDE |
| 525.2 | 525.2 | Drinking Water | 4,4'-DDT |
| 525.2 | 525.2 | Drinking Water | Acenaphthene |
| 525.2 | 525.2 | Drinking Water | Acenaphthylene |
| 525.2 | 525.2 | Drinking Water | Acetochlor |
| 525.2 | 525.2 | Drinking Water | alpha-BHC |
| 525.2 | 525.2 | Drinking Water | alpha-Chlordane |
| 525.2 | 525.2 | Drinking Water | Anthracene |
| 525.2 | 525.2 | Drinking Water | Benz(a)anthracene |
| 525.2 | 525.2 | Drinking Water | Benzo[b]fluoranthene |
| 525.2 | 525.2 | Drinking Water | Benzo[g,h,i]perylene |
| 525.2 | 525.2 | Drinking Water | Benzo[k]fluoranthene |
| 525.2 | 525.2 | Drinking Water | beta-BHC |
| 525.2 | 525.2 | Drinking Water | Bromacil |
| 525.2 | 525.2 | Drinking Water | Butylbenzylphthalate |
| 525.2 | 525.2 | Drinking Water | Caffeine |
| 525.2 | 525.2 | Drinking Water | Chlorobenzilate |
| 525.2 | 525.2 | Drinking Water | Chloroneb |
| 525.2 | 525.2 | Drinking Water | Chlorothalonil (Draconil, Bravo) |
| 525.2 | 525.2 | Drinking Water | Chlorpyrifos |
| 525.2 | 525.2 | Drinking Water | Chrysene |
| 525.2 | 525.2 | Drinking Water | delta-BHC |
| 525.2 | 525.2 | Drinking Water | Diazinon (Qualitative) |
| 525.2 | 525.2 | Drinking Water | Dibenz(a,h)anthracene |
| 525.2 | 525.2 | Drinking Water | Diclorvos (DDVP) |
| 525.2 | 525.2 | Drinking Water | Diethylphthalate |
| 525.2 | 525.2 | Drinking Water | Dimethoate |
| 525.2 | 525.2 | Drinking Water | Dimethylphthalate |
| 525.2 | 525.2 | Drinking Water | Di-n-butyl phthalate |
| 525.2 | 525.2 | Drinking Water | Di-n-octyl phthalate |
| 525.2 | 525.2 | Drinking Water | Endosulfan I (Alpha) |
| 525.2 | 525.2 | Drinking Water | Endosulfan II (Beta) |
| 525.2 | 525.2 | Drinking Water | Endosulfan sulfate |
| 525.2 | 525.2 | Drinking Water | Endrin aldehyde |
| 525.2 | 525.2 | Drinking Water | EPTC |
| 525.2 | 525.2 | Drinking Water | Fluoranthene |
| 525.2 | 525.2 | Drinking Water | Fluorene |
| 525.2 | 525.2 | Drinking Water | gamma-Chlordane |
| 525.2 | 525.2 | Drinking Water | Indeno[1,2,3-cd]pyrene |

Accreditation/Certification Summary

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

Job ID: 380-26568-1

Laboratory: Eurofins Eaton Monrovia (Continued)

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

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
|-----------|---------|-----------------------|-----------------|

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

| Analysis Method | Prep Method | Matrix | Analyte |
|-----------------|-------------|----------------|----------------------------------|
| 525.2 | 525.2 | Drinking Water | Isophorone |
| 525.2 | 525.2 | Drinking Water | Malathion |
| 525.2 | 525.2 | Drinking Water | Molinate |
| 525.2 | 525.2 | Drinking Water | Naphthalene |
| 525.2 | 525.2 | Drinking Water | Parathion |
| 525.2 | 525.2 | Drinking Water | Pendimethalin (Penoxaline) |
| 525.2 | 525.2 | Drinking Water | Phenanthrene |
| 525.2 | 525.2 | Drinking Water | Pyrene |
| 525.2 | 525.2 | Drinking Water | Terbacil |
| 525.2 | 525.2 | Drinking Water | Terbutylazine |
| 525.2 | 525.2 | Drinking Water | Thiobencarb |
| 525.2 | 525.2 | Drinking Water | Total Permethrin (mixed isomers) |
| 525.2 | 525.2 | Drinking Water | trans-Nonachlor |
| 525.2 | 525.2 | Drinking Water | Trifluralin |



Method Summary

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

Job ID: 380-26568-1

| Method | Method Description | Protocol | Laboratory |
|--------|--|----------|------------|
| 525.2 | Semivolatile Organic Compounds (GC/MS) | EPA | EA MON |
| 625 | EPA 625 Base/Neutral and Acid Organics i | EPA | |
| 8015 | 8015 - TPH DRO/ORO | EPA | |
| 8015B | SW846 8015B Gasoline Range Organics | SW846 | |
| 525.2 | Extraction of Semivolatile Compounds | EPA | EA MON |

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

= Physis Environmental Laboratories, 1904 Wright Circle, Anaheim, CA 92806

EA MON = Eurofins Eaton Monrovia, 750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016, TEL (626)386-1100



Sample Summary

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

Job ID: 380-26568-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------------------|----------------|----------------|----------------|
| 380-26568-1 | AIEA GULCH WELLS PUMP 1 | Drinking Water | 10/31/22 10:24 | 11/01/22 10:00 |
| 380-26568-2 | AIEA WELLS PUMPS 1&2 (260) | Drinking Water | 10/31/22 10:03 | 11/01/22 10:00 |
| 380-26568-3 | AIEA GULCH WELLS PUMP 2 | Drinking Water | 10/31/22 10:38 | 11/01/22 10:00 |
| 380-26568-4 | TB AIEA GULCH WELLS PUMP1 | Drinking Water | 10/31/22 10:24 | 11/01/22 10:00 |
| 380-26568-5 | TB AIEA GULCH WELLS PUMP2 | Drinking Water | 10/31/22 10:38 | 11/01/22 10:00 |
| 380-26568-6 | TB AIEA WELLS PUMP 1&2 (260) | Drinking Water | 10/31/22 10:03 | 11/01/22 10:00 |

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3051 Fujita Street
 Torrance, CA 90505
 Tel: (310)-618-8889

Date: 12-01-2022
 EMAX Batch No.: 22K032

Attn: Jackie Contreras

Eurofins Eaton Analytical
 750 Royal Oaks Dr., Suite 100
 Monrovia, CA 91016-3629

Subject: Laboratory Report
 Project: 380-26568

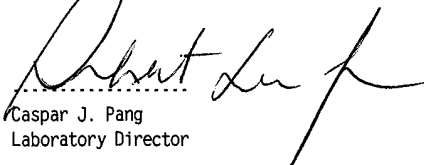
Enclosed is the Laboratory report for samples received on 11/03/22.
 The data reported relate only to samples listed below :

| Sample ID | Control # | Col Date | Matrix | Analysis |
|----------------|-----------|----------|--------|---------------------|
| 380-26568-1 | K032-01 | 10/31/22 | WATER | TPH GASOLINE TPH |
| 380-26568-2 | K032-02 | 10/31/22 | WATER | TPH GASOLINE TPH |
| 380-26568-3 | K032-03 | 10/31/22 | WATER | TPH GASOLINE TPH |
| 380-26568-4 | K032-04 | 10/31/22 | WATER | TPH GASOLINE |
| 380-26568-5 | K032-05 | 10/31/22 | WATER | TPH GASOLINE |
| 380-26568-6 | K032-06 | 10/31/22 | WATER | TPH GASOLINE |
| 380-26568-1MS | K032-01M | 10/31/22 | WATER | TPH GASOLINE |
| 380-26568-1MSD | K032-01S | 10/31/22 | WATER | TPH GASOLINE |

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning these results.

Sincerely yours,



Caspar J. Pang
 Laboratory Director

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EMAX certifies that results included in this report meets all TNI & DOD requirements unless noted in the Case Narrative.

NELAP Accredited Certificate Number CA002912022-22
 ANAB Accredited DoD ELAP and ISO/IEC 17025 Certificate Number L2278 Testing
 California ELAP Accredited Certificate Number 2672

Monrovia, CA (Suite 100)
 750 Royal Oaks Drive Suite 100
 Monrovia, CA 91016
 Phone: 626-386-1100

Chain of Custody Record



22 K032
 eurofins

Environment Testing

| | | | |
|--|--------------------------------|--|---|
| Client Information (Sub Contract Lab) | | Lab P#: Arada, Rachelle | Carrier Tracking No(s): 380-27106-1 |
| Company: EMAX Laboratories Inc | | E-Mail: Rachelle.Arada@et.eurofins.com | Page: Page 1 of 1 |
| Address: 3051 Fujita Street, Torrance, CA, 90505 | | State of Origin: Hawaii | Job #: 380-26568-1 |
| City: Torrance | | Accreditations Required (See note): State - Hawaii | Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Nitric Acid R - Na2SO3 S - H2SO4 G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: |
| Due Date Requested: 11/15/2022 | | Analysis Requested | |
| TAT Requested (days): | | Total Number of Containers | |
| PO #: | Perform MS/MSD (Yes or No) | Field Filtered Sample (Yes or No) | |
| WO #: | Matrix (Water, Solid, Organic) | Preservation Code: | |
| Project #: 38001111 | Sample Type (C=comp, G=grab) | Sample Time | Sample Date |
| Site: Honolulu BWS Sites | Sample Date | Sample Time | Sample Date |
| Sample Identification - Client ID (Lab ID) | | | |
| AIEA GULCH WELLS PUMP 1 (380-26568-1) | Water | 10:24 Hawaiian | 10/31/22 |
| AIEA GULCH WELLS PUMPS 1&2 (260) (380-26568-2) | Water | 10:03 Hawaiian | 10/31/22 |
| AIEA GULCH WELLS PUMP 2 (380-26568-3) | Water | 10:38 Hawaiian | 10/31/22 |
| TB AIEA GULCH WELLS PUMP1 (380-26568-4) | Water | 10:24 Hawaiian | 10/31/22 |
| TB AIEA GULCH WELLS PUMP2 (380-26568-5) | Water | 10:38 Hawaiian | 10/31/22 |
| TB AIEA WELLS PUMP 1&2 (260) (380-26568-6) | Water | 10:03 Hawaiian | 10/31/22 |
| Note: Since laboratory accreditations are subject to change, Eurofins Eaton Analytical, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Eaton Analytical, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Eaton Analytical, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to Eurofins Eaton Analytical, LLC. | | | |
| Possible Hazard Identification | | | |
| Unconfirmed | | | |
| Deliverable Requested: I, II, III, IV, Other (specify) | | | |
| Primary Deliverable Rank: 2 | | | |
| Special Instructions/QC Requirements: | | | |
| 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 <input type="checkbox"/> Months | | | |
| Special Instructions/QC Requirements: | | | |
| Time: Method of Shipment: | | | |
| Relinquished by: <i>ASA GREINER</i> Date/Time: 11/02/2022 14:09 Company: <i>EEA</i> | | | |
| Relinquished by: <i>ASA GREINER</i> Date/Time: 11/03/22 09:40 Company: <i>EMAX</i> | | | |
| Relinquished by: Date/Time: Company: | | | |
| Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No | | | |
| Custody Seal No.: 3.0 | | | |
| Cooler Temperature(s) °C and Other Remarks: | | | |





REFERENCE: EMAX-SM02 Rev. 12
SAMPLE RECEIPT FORM 1

| | | |
|---|--|--|
| Type of Delivery <input checked="" type="checkbox"/> Fedex <input type="checkbox"/> UPS <input type="checkbox"/> GSO <input type="checkbox"/> Others <input type="checkbox"/> EMAX Courier <input type="checkbox"/> Client Delivery | Airbill / Tracking Number 591359070291 | ECN 22K032 Recipient Jocelyne Solis-Ramos Date 11/03/22 Time 09:40 |
|---|--|--|

COC INSPECTION

| | | | | | |
|---|---|--|--|--|--|
| <input checked="" type="checkbox"/> Client Name | <input checked="" type="checkbox"/> Client PM/FC | <input type="checkbox"/> Sampler Name | <input checked="" type="checkbox"/> Sampling Date/Time | <input checked="" type="checkbox"/> Sample ID | <input checked="" type="checkbox"/> Matrix |
| <input checked="" type="checkbox"/> Address | <input checked="" type="checkbox"/> Tel # / Fax # | <input type="checkbox"/> Courier Signature | <input checked="" type="checkbox"/> Analysis Required | <input type="checkbox"/> Preservative (if any) | <input checked="" type="checkbox"/> TAT |
| Safety Issues (if any) | <input type="checkbox"/> High concentrations expected | <input type="checkbox"/> From Superfund Site | <input type="checkbox"/> Rad screening required | | |

Note: _____

PACKAGING INSPECTION

| | | | |
|--|--|--|--|
| Container | <input checked="" type="checkbox"/> Cooler | <input type="checkbox"/> Box | <input type="checkbox"/> Other |
| Condition | <input type="checkbox"/> Custody Seal | <input type="checkbox"/> Intact | <input type="checkbox"/> Damaged |
| Packaging | <input checked="" type="checkbox"/> Bubble Pack | <input type="checkbox"/> Styrofoam | <input type="checkbox"/> Popcorn |
| Temperatures (Cool, ≤6 °C but not frozen) | <input checked="" type="checkbox"/> Cooler 1 3.0 °C | <input type="checkbox"/> Cooler 2 _____ °C | <input type="checkbox"/> Cooler 3 _____ °C |
| | <input type="checkbox"/> Cooler 6 _____ °C | <input type="checkbox"/> Cooler 7 _____ °C | <input type="checkbox"/> Cooler 8 _____ °C |
| Thermometer: A - S/N _____ | B - S/N 210760237 | C - S/N _____ | <input checked="" type="checkbox"/> Sufficient <input type="checkbox"/> _____ |
| | | | <input type="checkbox"/> Cooler 4 _____ °C <input type="checkbox"/> Cooler 5 _____ °C |
| | | | <input type="checkbox"/> Cooler 9 _____ °C <input type="checkbox"/> Cooler 10 _____ °C |

Comments: Temperature is out of range. PM was informed IMMEDIATELY.

Note: _____

DISCREPANCIES

| LabSampleID | LabSampleContainerID | Code | ClientSample Label ID / Information | Corrective Action |
|-------------|----------------------|------|-------------------------------------|-------------------|
| 1-3 | 5,6,11,12,17,10 | D2 | JPG/JPB not indicated on label | R8 |
| | | | | |

pH holding time requirement for water samples is 15 mins. Water samples for pH analysis are received beyond 15 minutes from sampling time. MB 11/8/22

NOTES/OBSERVATIONS:
 SAMPLE MATRIX IS DRINKING WATER? YES NO

- LEGEND:**
- | | | |
|---|---|--|
| <p>Code Description- Sample Management</p> <p>D1 Analysis is not indicated in _____</p> <p>D2 Analysis mismatch COC vs label</p> <p>D3 Sample ID mismatch COC vs label</p> <p>D4 Sample ID is not indicated in _____</p> <p>D5 Container -[improper] [leaking] [broken]</p> <p>D6 Date/Time is not indicated in _____</p> <p>D7 Date/Time mismatch COC vs label</p> <p>D8 Sample listed in COC is not received</p> <p>D9 Sample received is not listed in COC</p> <p>D10 No initial/date on corrections in COC/label</p> <p>D11 Container count mismatch COC vs received</p> <p>D12 Container size mismatch COC vs received</p> | <p>Code Description-Sample Management</p> <p>D13 Out of Holding Time</p> <p>D14 Bubble is >6mm</p> <p>D15 No trip blank in cooler</p> <p>D16 Preservation not indicated in _____</p> <p>D17 Preservation mismatch COC vs label</p> <p>D18 Insufficient chemical preservative</p> <p>D19 Insufficient Sample</p> <p>D20 No filtration info for dissolved analysis</p> <p>D21 No sample for moisture determination</p> <p>D22 _____</p> <p>D23 _____</p> <p>D24 _____</p> | <p><input type="checkbox"/> Continue to next page.</p> <p>Code Description-Sample Management</p> <p>R1 Proceed as indicated in <input type="checkbox"/> COC <input type="checkbox"/> Label</p> <p>R2 Refer to attached instruction</p> <p>R3 Cancel the analysis</p> <p>R4 Use vial with smallest bubble first</p> <p>R5 Log-in with latest sampling date and time+1 min</p> <p>R6 Adjust pH as necessary</p> <p>R7 Filter and preserved as necessary</p> <p>R8 Informed client</p> <p>R9 _____</p> <p>R10 _____</p> <p>R11 _____</p> <p>R12 _____</p> |
|---|---|--|

REVIEWS:

| | | |
|---|------------------------|---------------------|
| Sample Labeling Jocelyne Solis-Ramos | SRF [Signature] | PM MB |
| Date 11/03/22 | Date 11/03/22 | Date 11/8/22 |

ORIGIN ID:WHPA (626) 386-1100
MANUEL A. VASQUEZ
EUROFINS EATON ANALYTICAL
750 ROYAL OAKS DRIVE
SUITE 100
MONROVIA, CA 91016
UNITED STATES US

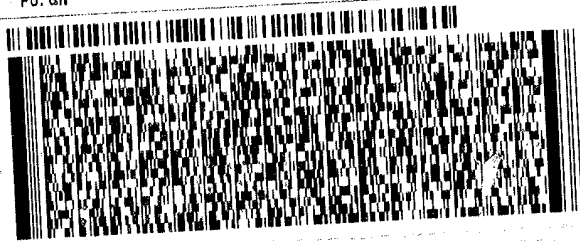
SHIP DATE: 02NOV22
ACTWGT: 71.10 LB
CAD: 0894108/CAFE3616
DIMS: 24x14x14 IN
BILL SENDER

TO **SHIPPING/RECEIVING**
EMAX LABORATORIES INC
3051 FUJITA STREET

TORRANCE CA 90505

(602) 659-7669
PO: GR

REF: 6360-18568
DEPT: SUBOUTS/LOG-IN



FedEx
Express



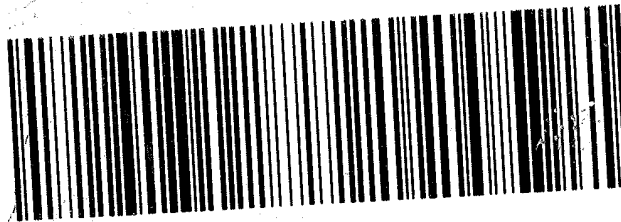
TRK# 5913 5987 8291
0201

THU - 03 NOV 10:30/
PRIORITY OVERNIGHT

92 HHRA

90505
CA-US LAX

Part # 156697-434 RRDB EXP 04/23



3.8

REPORTING CONVENTIONS

DATA QUALIFIERS:

| Lab Qualifier | AFCEE Qualifier | Description |
|---------------|-----------------|--|
| J | F | Indicates that the analyte is positively identified and the result is less than RL but greater than MDL. |
| N | | Indicates presumptive evidence of a compound. |
| B | B | Indicates that the analyte is found in the associated method blank as well as in the sample at above QC level. |
| E | J | Indicates that the result is above the maximum calibration range or estimated value. |
| * | * | Out of QC limit. |

Note: The above qualifiers are used to flag the results unless the project requires a different set of qualification criteria.

ACRONYMS AND ABBREVIATIONS:

| | |
|------|-----------------------------------|
| CRDL | Contract Required Detection Limit |
| RL | Reporting Limit |
| MRL | Method Reporting Limit |
| PQL | Practical Quantitation Limit |
| MDL | Method Detection Limit |
| DO | Diluted out |

DATES

The date and time information for leaching and preparation reflect the beginning date and time of the procedure unless the method, protocol, or project specifically requires otherwise.

LABORATORY REPORT FOR

EUROFINS EATON ANALYTICAL

380-26568

METHOD 5030B/8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

SDG#: 22K032



CASE NARRATIVE

Client : EUROFINS EATON ANALYTICAL

Project: 380-26568

SDG : 22K032

METHOD 5030B/8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

A total of six(6) water samples were received on 11/03/22 to be analyzed for Total Petroleum Hydrocarbons by Purge And Trap in accordance with Method 5030B/8015B and project specific requirements.

Holding Time

Samples were analyzed within the prescribed holding time.

Calibration

Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using a secondary source (ICV). Continuing calibration (CCV) verifications were carried out on a frequency specified by the project. All calibration requirements were within acceptance criteria. Refer to calibration summary forms of ICAL, ICV and CCV for details. MRL was analyzed as required by the project.

Method Blank

Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one(1) method blank was analyzed. VGH7K03B - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample

Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one(1) set of LCS/LCD was analyzed. VGH7K03L/VGH7K03C were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample

Matrix spike sample was prepared and analyzed at a frequency required by the project. For this SDG, one(1) set of MS/MSD was analyzed. Gasoline was within MS QC limits in K032-01M/K032-01S. Refer to Matrix QC summary form for details.

Surrogate

Surrogate was added on QC and field samples. All surrogate recoveries were within QC limits. Refer to sample result summary forms for details.

Sample Analysis

Samples were analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met.

LAB CHRONICLE
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : EUROFINS EATON ANALYTICAL
Project : 380-26568

SDG NO. : 22K032
Instrument ID : H7

| Client Sample ID | Laboratory Sample ID | Dilution Factor | % Moist | Analysis DateTime | Extraction DateTime | Sample Data FN | Calibration Data FN | Prep. Batch | Notes |
|------------------|----------------------|-----------------|---------|-------------------|---------------------|----------------|---------------------|-------------|--------------------------|
| | | | | | | | | | |
| WATER | | | | | | | | | |
| MBLK1W | VGH7K03B | 1 | NA | 11/03/2214:27 | 11/03/2214:27 | AK03005A | AK03004A | 22VGH7K03 | Method Blank |
| LCS1W | VGH7K03L | 1 | NA | 11/03/2215:03 | 11/03/2215:03 | AK03006A | AK03004A | 22VGH7K03 | Lab Control Sample (LCS) |
| LCD1W | VGH7K03C | 1 | NA | 11/03/2215:40 | 11/03/2215:40 | AK03007A | AK03004A | 22VGH7K03 | LCS Duplicate |
| 380-26568-1 | K032-01 | 1 | NA | 11/03/2216:16 | 11/03/2216:16 | AK03008A | AK03004A | 22VGH7K03 | Field Sample |
| 380-26568-1MS | K032-01M | 1 | NA | 11/03/2216:53 | 11/03/2216:53 | AK03009A | AK03004A | 22VGH7K03 | Matrix Spike Sample (MS) |
| 380-26568-2 | K032-01S | 1 | NA | 11/03/2217:29 | 11/03/2217:29 | AK03010A | AK03004A | 22VGH7K03 | MS Duplicate (MSD) |
| 380-26568-3 | K032-02 | 1 | NA | 11/03/2218:06 | 11/03/2218:06 | AK03011A | AK03004A | 22VGH7K03 | Field Sample |
| 380-26568-4 | K032-03 | 1 | NA | 11/03/2218:42 | 11/03/2218:42 | AK03012A | AK03004A | 22VGH7K03 | Field Sample |
| 380-26568-5 | K032-04 | 1 | NA | 11/03/2219:18 | 11/03/2219:18 | AK03013A | AK03004A | 22VGH7K03 | Field Sample |
| 380-26568-6 | K032-05 | 1 | NA | 11/03/2219:55 | 11/03/2219:55 | AK03014A | AK03004A | 22VGH7K03 | Field Sample |
| | K032-06 | 1 | NA | 11/03/2220:31 | 11/03/2220:31 | AK03015A | AK03004A | 22VGH7K03 | Field Sample |

FN - Filename
% Moist - Percent Moisture



- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17

SAMPLE RESULTS

METHOD 5030B/8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : EUROFINS EATON ANALYTICAL   Date Collected: 10/31/22 10:24
Project     : 380-26568                 Date Received: 11/03/22
Batch No.   : 22K032                   Date Extracted: 11/03/22 16:16
Sample ID   : 380-26568-1              Date Analyzed: 11/03/22 16:16
Lab Samp ID: K032-01                   Dilution Factor: 1
Lab File ID: AK03008A                  Matrix: WATER
Ext Btch ID: 22VGH7K03                 % Moisture: NA
Calib. Ref.: AK03004A                  Instrument ID: H7
=====

```

| PARAMETERS | RESULTS (mg/L) | RL (mg/L) | MDL (mg/L) |
|------------|-------------------|--------------|---------------|
| GASOLINE | ND | 0.020 | 0.010 |

| SURROGATE PARAMETERS | RESULT | SPK_AMT | %RECOVERY | QC LIMIT |
|----------------------|--------|---------|-----------|----------|
| Bromofluorobenzene | 0.0334 | 0.0400 | 83 | 60-140 |

Notes:

Parameter H-C Range

Gasoline C6-C10

Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.

Sample Amount : 5ml

Final Volume : 5ml

Prepared by : SCerva

Analyzed by : SCerva

METHOD 5030B/8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

=====
Client : EUROFINS EATON ANALYTICAL Date Collected: 10/31/22 10:03
Project : 380-26568 Date Received: 11/03/22
Batch No. : 22K032 Date Extracted: 11/03/22 18:06
Sample ID : 380-26568-2 Date Analyzed: 11/03/22 18:06
Lab Samp ID: K032-02 Dilution Factor: 1
Lab File ID: AK03011A Matrix: WATER
Ext Btch ID: 22VGH7K03 % Moisture: NA
Calib. Ref.: AK03004A Instrument ID: H7
=====

| PARAMETERS | RESULTS (mg/L) | RL (mg/L) | MDL (mg/L) |
|------------|-------------------|--------------|---------------|
| GASOLINE | ND | 0.020 | 0.010 |

| SURROGATE PARAMETERS | RESULT | SPK_AMT | %RECOVERY | QC LIMIT |
|----------------------|--------|---------|-----------|----------|
| Bromofluorobenzene | 0.0374 | 0.0400 | 94 | 60-140 |

=====

Notes:

Parameter H-C Range

Gasoline C6-C10

Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.

Sample Amount : 5ml

Final Volume : 5ml

Prepared by : SCerva

Analyzed by : SCerva

METHOD 5030B/8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : EUROFINS EATON ANALYTICAL   Date Collected: 10/31/22 10:38
Project     : 380-26568                   Date Received: 11/03/22
Batch No.   : 22K032                       Date Extracted: 11/03/22 18:42
Sample ID   : 380-26568-3                 Date Analyzed: 11/03/22 18:42
Lab Samp ID: K032-03                       Dilution Factor: 1
Lab File ID: AK03012A                       Matrix: WATER
Ext Btch ID: 22VGH7K03                     % Moisture: NA
Calib. Ref.: AK03004A                     Instrument ID: H7
=====
  
```

| PARAMETERS | RESULTS (mg/L) | RL (mg/L) | MDL (mg/L) |
|------------|-------------------|--------------|---------------|
| GASOLINE | ND | 0.020 | 0.010 |

| SURROGATE PARAMETERS | RESULT | SPK_AMT | %RECOVERY | QC LIMIT |
|----------------------|--------|---------|-----------|----------|
| Bromofluorobenzene | 0.0388 | 0.0400 | 97 | 60-140 |

Notes:

Parameter H-C Range

Gasoline C6-C10

Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.

Sample Amount : 5ml

Final Volume : 5ml

Prepared by : SCerva

Analyzed by : SCerva

METHOD 5030B/8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : EUROFINS EATON ANALYTICAL   Date Collected: 10/31/22 10:24
Project     : 380-26568                   Date Received: 11/03/22
Batch No.   : 22K032                       Date Extracted: 11/03/22 19:18
Sample ID   : 380-26568-4                 Date Analyzed: 11/03/22 19:18
Lab Samp ID: K032-04                       Dilution Factor: 1
Lab File ID: AK03013A                      Matrix: WATER
Ext Btch ID: 22VGH7K03                     % Moisture: NA
Calib. Ref.: AK03004A                     Instrument ID: H7
=====
  
```

| PARAMETERS | RESULTS (mg/L) | RL (mg/L) | MDL (mg/L) |
|------------|-------------------|--------------|---------------|
| GASOLINE | ND | 0.020 | 0.010 |

| SURROGATE PARAMETERS | RESULT | SPK_AMT | %RECOVERY | QC LIMIT |
|----------------------|--------|---------|-----------|----------|
| Bromofluorobenzene | 0.0363 | 0.0400 | 91 | 60-140 |

Notes:

Parameter H-C Range

Gasoline C6-C10

Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.

Sample Amount : 5ml

Final Volume : 5ml

Prepared by : SCerva

Analyzed by : SCerva

METHOD 5030B/8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : EUROFINS EATON ANALYTICAL   Date Collected: 10/31/22 10:38
Project     : 380-26568                   Date Received: 11/03/22
Batch No.   : 22K032                       Date Extracted: 11/03/22 19:55
Sample ID   : 380-26568-5                 Date Analyzed: 11/03/22 19:55
Lab Samp ID: K032-05                       Dilution Factor: 1
Lab File ID: AK03014A                       Matrix: WATER
Ext Btch ID: 22VGH7K03                       % Moisture: NA
Calib. Ref.: AK03004A                       Instrument ID: H7
=====

```

| PARAMETERS | RESULTS (mg/L) | RL (mg/L) | MDL (mg/L) |
|------------|-------------------|--------------|---------------|
| GASOLINE | ND | 0.020 | 0.010 |

| SURROGATE PARAMETERS | RESULT | SPK_AMT | %RECOVERY | QC LIMIT |
|----------------------|--------|---------|-----------|----------|
| Bromofluorobenzene | 0.0379 | 0.0400 | 95 | 60-140 |

Notes:

Parameter H-C Range

Gasoline C6-C10

Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.

Sample Amount : 5ml

Final Volume : 5ml

Prepared by : SCerva

Analyzed by : SCerva

METHOD 5030B/8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

=====

| | |
|------------------------------------|--------------------------------|
| Client : EUROFINS EATON ANALYTICAL | Date Collected: 10/31/22 10:03 |
| Project : 380-26568 | Date Received: 11/03/22 |
| Batch No. : 22K032 | Date Extracted: 11/03/22 20:31 |
| Sample ID : 380-26568-6 | Date Analyzed: 11/03/22 20:31 |
| Lab Samp ID: K032-06 | Dilution Factor: 1 |
| Lab File ID: AK03015A | Matrix: WATER |
| Ext Btch ID: 22VGH7K03 | % Moisture: NA |
| Calib. Ref.: AK03004A | Instrument ID: H7 |

=====

| PARAMETERS | RESULTS (mg/L) | RL (mg/L) | MDL (mg/L) |
|------------|-------------------|--------------|---------------|
| GASOLINE | ND | 0.020 | 0.010 |

| SURROGATE PARAMETERS | RESULT | SPK_AMT | %RECOVERY | QC LIMIT |
|----------------------|--------|---------|-----------|----------|
| Bromofluorobenzene | 0.0377 | 0.0400 | 94 | 60-140 |

=====

Notes:

Parameter H-C Range

Gasoline C6-C10

Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.

Sample Amount : 5ml

Final Volume : 5ml

Prepared by : SCerva

Analyzed by : SCerva

| |
|----|
| 1 |
| 2 |
| 3 |
| 4 |
| 5 |
| 6 |
| 7 |
| 8 |
| 9 |
| 10 |
| 11 |
| 12 |
| 13 |
| 14 |
| 15 |
| 16 |
| 17 |

QC SUMMARIES

METHOD 5030B/8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : EUROFINS EATON ANALYTICAL   Date Collected: 11/03/22 14:27
Project     : 380-26568                  Date Received: 11/03/22
Batch No.   : 22K032                     Date Extracted: 11/03/22 14:27
Sample ID   : MBLK1W                     Date Analyzed: 11/03/22 14:27
Lab Samp ID: VGH7K03B                    Dilution Factor: 1
Lab File ID: AK03005A                    Matrix: WATER
Ext Btch ID: 22VGH7K03                   % Moisture: NA
Calib. Ref.: AK03004A                    Instrument ID: H7
=====

```

| PARAMETERS | RESULTS (mg/L) | RL (mg/L) | MDL (mg/L) |
|------------|-------------------|--------------|---------------|
| GASOLINE | ND | 0.020 | 0.010 |

| SURROGATE PARAMETERS | RESULT | SPK_AMT | %RECOVERY | QC LIMIT |
|----------------------|--------|---------|-----------|----------|
| Bromofluorobenzene | 0.0406 | 0.0400 | 102 | 60-140 |

Notes:

Parameter H-C Range

Gasoline C6-C10

Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.

Sample Amount : 5ml

Final Volume : 5ml

Prepared by : SCerva

Analyzed by : SCerva

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL
PROJECT : 380-26568
BATCH NO. : 22K032
METHOD : 5030B/8015B

| | | |
|--------------------------------|----------------|----------------|
| MATRIX : WATER | | % MOISTURE:NA |
| DILUTION FACTOR: 1 | 1 | 1 |
| SAMPLE ID : MBLK1W | LCS1W | LCD1W |
| LAB SAMPLE ID : VGH7K03B | VGH7K03L | VGH7K03C |
| LAB FILE ID : AK03005A | AK03006A | AK03007A |
| DATE PREPARED : 11/03/22 14:27 | 11/03/22 15:03 | 11/03/22 15:40 |
| DATE ANALYZED : 11/03/22 14:27 | 11/03/22 15:03 | 11/03/22 15:40 |
| PREP BATCH : 22VGH7K03 | 22VGH7K03 | 22VGH7K03 |
| CALIBRATION REF: AK03004A | AK03004A | AK03004A |

ACCESSION:

| PARAMETERS | MBResult (mg/L) | SpikeAmt (mg/L) | LCSResult (mg/L) | LCSRec (%) | SpikeAmt (mg/L) | LCDResult (mg/L) | LCDRec (%) | RPD (%) | QCLimit (%) | MaxRPD (%) |
|------------|--------------------|--------------------|---------------------|---------------|--------------------|---------------------|---------------|------------|----------------|---------------|
| Gasoline | ND | 0.500 | 0.509 | 102 | 0.500 | 0.466 | 93 | 9 | 60-130 | 30 |

| SURROGATE PARAMETER | SpikeAmt (mg/L) | LCSResult (mg/L) | LCSRec (%) | SpikeAmt (mg/L) | LCDResult (mg/L) | LCDRec (%) | QCLimit (%) |
|---------------------|--------------------|---------------------|---------------|--------------------|---------------------|---------------|----------------|
| Bromofluorobenzene | 0.0400 | 0.0475 | 119 | 0.0400 | 0.0471 | 118 | 70-130 |

MB: Method Blank sample LCS: Lab Control Sample LCD: Lab Control Sample Duplicate

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL
PROJECT : 380-26568
BATCH NO. : 22K032
METHOD : 5030B/8015B

```

=====
MATRIX      : WATER                               % MOISTURE:NA
DILUTION FACTOR: 1                               1
SAMPLE ID   : 380-26568-1                         380-26568-1MS
LAB SAMPLE ID : K032-01                           K032-01M
LAB FILE ID  : AK03008A                           AK03009A
DATE PREPARED : 11/03/22 16:16                   11/03/22 16:53
DATE ANALYZED : 11/03/22 16:16                   11/03/22 17:29
PREP BATCH   : 22VGH7K03                         22VGH7K03
CALIBRATION REF: AK03004A                       AK03004A
  
```

ACCESSION:

| PARAMETERS | PSResult (mg/L) | SpikeAmt (mg/L) | MSResult (mg/L) | MSRec (%) | SpikeAmt (mg/L) | MSDResult (mg/L) | MSDRec (%) | RPD (%) | QCLimit (%) | MaxRPD (%) |
|------------|--------------------|--------------------|--------------------|--------------|--------------------|---------------------|---------------|------------|----------------|---------------|
| Gasoline | ND | 0.500 | 0.470 | 94 | 0.500 | 0.444 | 89 | 6 | 50-130 | 30 |

| SURROGATE PARAMETER | SpikeAmt (mg/L) | MSResult (mg/L) | MSRec (%) | SpikeAmt (mg/L) | MSDResult (mg/L) | MSDRec (%) | QCLimit (%) |
|---------------------|--------------------|--------------------|--------------|--------------------|---------------------|---------------|----------------|
| Bromofluorobenzene | 0.0400 | 0.0405 | 101 | 0.0400 | 0.0439 | 110 | 60-140 |

PS: Parent Sample MS: Matrix Spike MSD: Matrix Spike Duplicate

LABORATORY REPORT FOR

EUROFINS EATON ANALYTICAL

380-26568

METHOD 3520C/8015B
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

SDG#: 22K032



CASE NARRATIVE

Client : EUROFINS EATON ANALYTICAL

Project: 380-26568

SDG : 22K032

METHOD 3520C/8015B
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

A total of three(3) water samples were received on 11/03/22 to be analyzed for Total Petroleum Hydrocarbons by Extraction in accordance with Method 3520C/8015B and project specific requirements.

Holding Time

Samples were analyzed within the prescribed holding time.

Calibration

Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using a secondary source (ICV). Continuing calibration (CCV) verifications were carried out on a frequency specified by the project. All calibration requirements were within acceptance criteria. Refer to calibration summary forms of ICAL, ICV and CCV for details. MRL was analyzed as required by the project.

Method Blank

Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one(1) method blank was analyzed. DSK016WB - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample

Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one(1) set of LCS/LCD was analyzed. DSK016WL/DSK016WC were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample

No matrix QC sample was provided on this SDG.

Surrogate

Surrogates were added on QC and field samples. All surrogate recoveries were within QC limits. Refer to sample result summary forms for details.

Sample Analysis

Samples were analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met.

CASE NARRATIVE

Client : EUROFINS EATON ANALYTICAL

Project: 380-26568

SDG : 22K032

METHOD 3520C/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

A total of three(3) water samples were received on 11/03/22 to be analyzed for Petroleum Hydrocarbons by Extraction in accordance with Method 3520C/8015B and project specific requirements.

Holding Time

Samples were analyzed within the prescribed holding time.

Calibration

Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using a secondary source (ICV). Continuing calibration (CCV) verifications were carried out on a frequency specified by the project. All calibration requirements were within acceptance criteria. Refer to calibration summary forms of ICAL, ICV and CCV for details. MRL was analyzed as required by the project.

Method Blank

Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one(1) method blank was analyzed. DSK016WB - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample

Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one(1) set of LCS/LCD was analyzed. J5K016WL/J5K016WC were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample

No matrix QC sample was provided on this SDG.

Surrogate

Surrogates were added on QC and field samples. All surrogate recoveries were within QC limits. Refer to sample result summary forms for details.

Sample Analysis

Samples were analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met.

CASE NARRATIVE

Client : EUROFINS EATON ANALYTICAL

Project: 380-26568

SDG : 22K032

METHOD 3520C/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

A total of three(3) water samples were received on 11/03/22 to be analyzed for Petroleum Hydrocarbons by Extraction in accordance with Method 3520C/8015B and project specific requirements.

Holding Time

Samples were analyzed within the prescribed holding time.

Calibration

Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using a secondary source (ICV). Continuing calibration (CCV) verifications were carried out on a frequency specified by the project. All calibration requirements were within acceptance criteria. Refer to calibration summary forms of ICAL, ICV and CCV for details. MRL was analyzed as required by the project.

Method Blank

Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one(1) method blank was analyzed. DSK016WB - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample

Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one(1) set of LCS/LCD was analyzed. J8K016WL/J8K016WC were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample

No matrix QC sample was provided on this SDG.

Surrogate

Surrogates were added on QC and field samples. All surrogate recoveries were within QC limits. Refer to sample result summary forms for details.

Sample Analysis

Samples were analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met.

LAB CHRONICLE
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Client : EUROFINS EATON ANALYTICAL
 Project : 380-26568
 SDG NO. : 22K032
 Instrument ID : 05

| Client Sample ID | Laboratory Sample ID | Dilution Factor | % Moist | Analysis DateTime | Extraction DateTime | Sample Data FN | Calibration Prep. Data FN | Notes |
|------------------|----------------------|-----------------|---------|-------------------|---------------------|----------------|---------------------------|------------------------------------|
| | | | | | | | | WATER |
| MBLK1W | DSK016WB | 1 | NA | 11/11/2215:40 | 11/10/2216:45 | LK10064A | LK10055A | 22DSK016W Method Blank |
| LCS1W | DSK016WL | 1 | NA | 11/11/2215:59 | 11/10/2216:45 | LK10065A | LK10055A | 22DSK016W Lab Control Sample (LCS) |
| LCD1W | DSK016WC | 1 | NA | 11/11/2216:17 | 11/10/2216:45 | LK10066A | LK10055A | 22DSK016W LCS Duplicate |
| 380-26568-1 | K032-01 | 1 | NA | 11/11/2217:50 | 11/10/2216:45 | LK10071A | LK10055A | 22DSK016W Field Sample |
| 380-26568-2 | K032-02 | 1 | NA | 11/11/2218:08 | 11/10/2216:45 | LK10072A | LK10055A | 22DSK016W Field Sample |
| 380-26568-3 | K032-03 | 1 | NA | 11/11/2218:27 | 11/10/2216:45 | LK10073A | LK10055A | 22DSK016W Field Sample |

FN - Filename
 % Moist - Percent Moisture



LAB CHRONICLE
PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client      : EUROFINS EATON ANALYTICAL
Project     : 380-26568
=====
Client      : SDG NO.      : 22K032
Project     : Instrument ID : D5
=====

```

| Client Sample ID | Laboratory Sample ID | Dilution Factor | % Moist | Analysis DateTime | Extraction DateTime | Sample Data FN | Calibration Data FN | Prep. Batch | Notes |
|------------------|----------------------|-----------------|---------|-------------------|---------------------|----------------|---------------------|-------------|--------------------------|
| | | | | | | | | | WATER |
| MBLK1W | DSK016WB | 1 | NA | 11/11/2215:40 | 11/10/2216:45 | LK10064A | LK10056A | 22DSK016W | Method Blank |
| LCS1W | J5K016WL | 1 | NA | 11/11/2216:36 | 11/10/2216:45 | LK10067A | LK10056A | 22DSK016W | Lab Control Sample (LCS) |
| LCD1W | J5K016WC | 1 | NA | 11/11/2216:54 | 11/10/2216:45 | LK10068A | LK10056A | 22DSK016W | LCS Duplicate |
| 380-26568-1 | K032-01 | 1 | NA | 11/11/2217:50 | 11/10/2216:45 | LK10071A | LK10056A | 22DSK016W | Field Sample |
| 380-26568-2 | K032-02 | 1 | NA | 11/11/2218:08 | 11/10/2216:45 | LK10072A | LK10056A | 22DSK016W | Field Sample |
| 380-26568-3 | K032-03 | 1 | NA | 11/11/2218:27 | 11/10/2216:45 | LK10073A | LK10056A | 22DSK016W | Field Sample |

FN - Filename
% Moist - Percent Moisture



LAB CHRONICLE
PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client   : EUROFINS EATON ANALYTICAL
Project  : 380-26568
=====
SDG NO. : 22K032
Instrument ID : D5
=====

```

| Client Sample ID | Laboratory Sample ID | Dilution Factor | % Moist | Analysis DateTime | Extraction DateTime | Sample Data FN | Calibration Data FN | Prep. Batch | Notes |
|------------------|----------------------|-----------------|---------|-------------------|---------------------|----------------|---------------------|-------------|--------------------------|
| | | | | | | | | | WATER |
| MBLK1W | DSK016WB | 1 | NA | 11/11/2215:40 | 11/10/2216:45 | LK10064A | LK10057A | 22DSK016W | Method Blank |
| LCS1W | J8K016WL | 1 | NA | 11/11/2217:12 | 11/10/2216:45 | LK10069A | LK10057A | 22DSK016W | Lab Control Sample (LCS) |
| LCD1W | J8K016WC | 1 | NA | 11/11/2217:31 | 11/10/2216:45 | LK10070A | LK10057A | 22DSK016W | LCS Duplicate |
| 380-26568-1 | K032-01 | 1 | NA | 11/11/2217:50 | 11/10/2216:45 | LK10071A | LK10057A | 22DSK016W | Field Sample |
| 380-26568-2 | K032-02 | 1 | NA | 11/11/2218:08 | 11/10/2216:45 | LK10072A | LK10057A | 22DSK016W | Field Sample |
| 380-26568-3 | K032-03 | 1 | NA | 11/11/2218:27 | 11/10/2216:45 | LK10073A | LK10057A | 22DSK016W | Field Sample |

```

FN      - Filename
% Moist - Percent Moisture

```



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SAMPLE RESULTS

METHOD 3520C/8015B
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client      : EUROFINS EATON ANALYTICAL    Date Collected: 10/31/22 10:24
Project     : 380-26568                    Date Received: 11/03/22
Batch No.   : 22K032                       Date Extracted: 11/10/22 16:45
Sample ID   : 380-26568-1                 Date Analyzed: 11/11/22 17:50
Lab Samp ID : 22K032-01                   Dilution Factor: 1
Lab File ID : LK10071A                    Matrix: WATER
Ext Btch ID : 22DSK016W                   % Moisture: NA
Calib. Ref.: LK10055A                     Instrument ID: D5
=====

```

| PARAMETERS | RESULTS (mg/L) | RL (mg/L) | MDL (mg/L) |
|------------|-------------------|--------------|---------------|
| Diesel | ND | 0.029 | 0.014 |
| Motor Oil | ND | 0.058 | 0.029 |

| SURROGATE PARAMETERS | RESULT | SPK_AMT | %RECOVERY | QC LIMIT |
|----------------------|--------|---------|-----------|----------|
| Bromobenzene | 0.647 | 0.575 | 113 | 60-130 |
| Hexacosane | 0.142 | 0.144 | 99 | 60-130 |

Notes:

Parameter H-C Range
Diesel C10-C24
Motor Oil C24-C36

Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.

Sample Amount : 870ml Final Volume : 5ml
Prepared by : P0reto Analyzed by : SDeeso

METHOD 3520C/8015B
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client      : EUROFINS EATON ANALYTICAL    Date Collected: 10/31/22 10:24
Project     : 380-26568                    Date Received: 11/03/22
Batch No.   : 22K032                       Date Extracted: 11/10/22 16:45
Sample ID   : 380-26568-1                 Date Analyzed: 11/11/22 17:50
Lab Samp ID : 22K032-01                   Dilution Factor: 1
Lab File ID : LK10071A                    Matrix: WATER
Ext Btch ID : 22DSK016W                   % Moisture: NA
Calib. Ref.: LK10056A                     Instrument ID: D5
=====
  
```

| PARAMETERS | RESULTS (mg/L) | RL (mg/L) | MDL (mg/L) |
|------------|-------------------|--------------|---------------|
| JP5 | ND | 0.058 | 0.029 |

| SURROGATE PARAMETERS | RESULT | SPK_AMT | %RECOVERY | QC LIMIT |
|----------------------|--------|---------|-----------|----------|
| Bromobenzene | 0.647 | 0.575 | 113 | 60-130 |
| Hexacosane | 0.142 | 0.144 | 99 | 60-130 |

Notes:

RL : Reporting Limit
 Parameter H-C Range
 JP5 C8-C18
 Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.

Sample Amount : 870ml Final Volume : 5ml
 Prepared by : P0reto Analyzed by : SDeeso

METHOD 3520C/8015B
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client      : EUROFINS EATON ANALYTICAL      Date Collected: 10/31/22 10:24
Project     : 380-26568                      Date Received: 11/03/22
Batch No.   : 22K032                         Date Extracted: 11/10/22 16:45
Sample ID   : 380-26568-1                   Date Analyzed: 11/11/22 17:50
Lab Samp ID: 22K032-01                      Dilution Factor: 1
Lab File ID: LK10071A                       Matrix: WATER
Ext Btch ID: 22DSK016W                      % Moisture: NA
Calib. Ref.: LK10057A                       Instrument ID: D5
=====
  
```

| PARAMETERS | RESULTS (mg/L) | RL (mg/L) | MDL (mg/L) | |
|------------|-------------------|--------------|---------------|--|
| JP8 | ND | 0.058 | 0.029 | |

| SURROGATE PARAMETERS | RESULT | SPK_AMT | %RECOVERY | QC LIMIT |
|----------------------|--------|---------|-----------|----------|
| Bromobenzene | 0.647 | 0.575 | 113 | 60-130 |
| Hexacosane | 0.142 | 0.144 | 99 | 60-130 |

Notes:

RL : Reporting Limit
 Parameter H-C Range
 JP8 C8-C18
 Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.

Sample Amount : 870ml Final Volume : 5ml
 Prepared by : POrreto Analyzed by : SDeeso

METHOD 3520C/8015B
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : EUROFINS EATON ANALYTICAL   Date Collected: 10/31/22 10:03
Project      : 380-26568                   Date Received: 11/03/22
Batch No.    : 22K032                       Date Extracted: 11/10/22 16:45
Sample ID    : 380-26568-2                 Date Analyzed: 11/11/22 18:08
Lab Samp ID  : 22K032-02                     Dilution Factor: 1
Lab File ID  : LK10072A                       Matrix: WATER
Ext Btch ID  : 22DSK016W                     % Moisture: NA
Calib. Ref. : LK10055A                       Instrument ID: D5
=====

```

| PARAMETERS | RESULTS (mg/L) | RL (mg/L) | MDL (mg/L) |
|------------|-------------------|--------------|---------------|
| Diesel | ND | 0.027 | 0.014 |
| Motor Oil | ND | 0.055 | 0.027 |

| SURROGATE PARAMETERS | RESULT | SPK_AMT | %RECOVERY | QC LIMIT |
|----------------------|--------|---------|-----------|----------|
| Bromobenzene | 0.670 | 0.545 | 123 | 60-130 |
| Hexacosane | 0.147 | 0.136 | 108 | 60-130 |

Notes:

Parameter H-C Range
Diesel C10-C24
Motor Oil C24-C36

Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.

Sample Amount : 920ml Final Volume : 5ml
Prepared by : P0reto Analyzed by : SDeeso

METHOD 3520C/8015B
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client      : EUROFINS EATON ANALYTICAL   Date Collected: 10/31/22 10:03
Project     : 380-26568                   Date Received: 11/03/22
Batch No.   : 22K032                       Date Extracted: 11/10/22 16:45
Sample ID   : 380-26568-2                 Date Analyzed: 11/11/22 18:08
Lab Samp ID: 22K032-02                     Dilution Factor: 1
Lab File ID: LK10072A                       Matrix: WATER
Ext Btch ID: 22DSK016W                     % Moisture: NA
Calib. Ref.: LK10056A                       Instrument ID: D5
=====
    
```

| PARAMETERS | RESULTS (mg/L) | RL (mg/L) | MDL (mg/L) |
|------------|-------------------|--------------|---------------|
| JP5 | ND | 0.055 | 0.027 |

| SURROGATE PARAMETERS | RESULT | SPK_AMT | %RECOVERY | QC LIMIT |
|----------------------|--------|---------|-----------|----------|
| Bromobenzene | 0.670 | 0.545 | 123 | 60-130 |
| Hexacosane | 0.147 | 0.136 | 108 | 60-130 |

Notes:

RL : Reporting Limit
 Parameter H-C Range
 JP5 C8-C18

Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.

Sample Amount : 920ml Final Volume : 5ml
 Prepared by : POrreto Analyzed by : SDeeso

METHOD 3520C/8015B
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client      : EUROFINS EATON ANALYTICAL   Date Collected: 10/31/22 10:03
Project     : 380-26568                   Date Received: 11/03/22
Batch No.   : 22K032                       Date Extracted: 11/10/22 16:45
Sample ID   : 380-26568-2                 Date Analyzed: 11/11/22 18:08
Lab Samp ID : 22K032-02                   Dilution Factor: 1
Lab File ID : LK10072A                    Matrix: WATER
Ext Btch ID : 22DSK016W                   % Moisture: NA
Calib. Ref.: LK10057A                     Instrument ID: D5
=====
    
```

| PARAMETERS | RESULTS (mg/L) | RL (mg/L) | MDL (mg/L) | |
|------------|-------------------|--------------|---------------|--|
| JP8 | ND | 0.055 | 0.027 | |

| SURROGATE PARAMETERS | RESULT | SPK_AMT | %RECOVERY | QC LIMIT |
|----------------------|--------|---------|-----------|----------|
| Bromobenzene | 0.670 | 0.545 | 123 | 60-130 |
| Hexacosane | 0.147 | 0.136 | 108 | 60-130 |

Notes:

RL : Reporting Limit
 Parameter H-C Range
 JP8 C8-C18
 Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.

Sample Amount : 920ml Final Volume : 5ml
 Prepared by : PDreto Analyzed by : SDeeso

METHOD 3520C/8015B
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client      : EUROFINS EATON ANALYTICAL    Date Collected: 10/31/22 10:38
Project    : 380-26568                    Date Received: 11/03/22
Batch No.  : 22K032                       Date Extracted: 11/10/22 16:45
Sample ID  : 380-26568-3                  Date Analyzed: 11/11/22 18:27
Lab Samp ID: 22K032-03                    Dilution Factor: 1
Lab File ID: LK10073A                     Matrix: WATER
Ext Btch ID: 22DSK016W                    % Moisture: NA
Calib. Ref.: LK10055A                     Instrument ID: D5
=====

```

| PARAMETERS | RESULTS (mg/L) | RL (mg/L) | MDL (mg/L) |
|------------|-------------------|--------------|---------------|
| Diesel | ND | 0.025 | 0.012 |
| Motor Oil | ND | 0.050 | 0.025 |

| SURROGATE PARAMETERS | RESULT | SPK_AMT | %RECOVERY | QC LIMIT |
|----------------------|--------|---------|-----------|----------|
| Bromobenzene | 0.578 | 0.500 | 116 | 60-130 |
| Hexacosane | 0.121 | 0.125 | 97 | 60-130 |

Notes:

Parameter H-C Range
Diesel C10-C24
Motor Oil C24-C36

Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.

Sample Amount : 1000ml Final Volume : 5ml
Prepared by : P0reto Analyzed by : SDeeso

METHOD 3520C/8015B
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client      : EUROFINS EATON ANALYTICAL      Date Collected: 10/31/22 10:38
Project     : 380-26568                      Date Received: 11/03/22
Batch No.   : 22K032                         Date Extracted: 11/10/22 16:45
Sample ID   : 380-26568-3                   Date Analyzed: 11/11/22 18:27
Lab Samp ID : 22K032-03                     Dilution Factor: 1
Lab File ID : LK10073A                      Matrix: WATER
Ext Btch ID : 22DSK016W                     % Moisture: NA
Calib. Ref.: LK10056A                       Instrument ID: D5
=====
    
```

| PARAMETERS | RESULTS (mg/L) | RL (mg/L) | MDL (mg/L) |
|------------|-------------------|--------------|---------------|
| JP5 | ND | 0.050 | 0.025 |

| SURROGATE PARAMETERS | RESULT | SPK_AMT | %RECOVERY | QC LIMIT |
|----------------------|--------|---------|-----------|----------|
| Bromobenzene | 0.578 | 0.500 | 116 | 60-130 |
| Hexacosane | 0.121 | 0.125 | 97 | 60-130 |

Notes:

RL : Reporting Limit
 Parameter H-C Range
 JP5 C8-C18
 Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.

Sample Amount : 1000ml Final Volume : 5ml
 Prepared by : POrreto Analyzed by : SDeeso

METHOD 3520C/8015B
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client      : EUROFINS EATON ANALYTICAL      Date Collected: 10/31/22 10:38
Project     : 380-26568                      Date Received: 11/03/22
Batch No.   : 22K032                         Date Extracted: 11/10/22 16:45
Sample ID   : 380-26568-3                   Date Analyzed: 11/11/22 18:27
Lab Samp ID : 22K032-03                     Dilution Factor: 1
Lab File ID : LK10073A                      Matrix: WATER
Ext Btch ID : 22DSK016W                     % Moisture: NA
Calib. Ref.: LK10057A                      Instrument ID: D5
=====
    
```

| PARAMETERS | RESULTS (mg/L) | RL (mg/L) | MDL (mg/L) | |
|------------|-------------------|--------------|---------------|--|
| JP8 | ND | 0.050 | 0.025 | |

| SURROGATE PARAMETERS | RESULT | SPK_AMT | %RECOVERY | QC LIMIT |
|----------------------|--------|---------|-----------|----------|
| Bromobenzene | 0.578 | 0.500 | 116 | 60-130 |
| Hexacosane | 0.121 | 0.125 | 97 | 60-130 |

Notes:

RL : Reporting Limit
 Parameter H-C Range
 JP8 C8-C18
 Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.

Sample Amount : 1000ml Final Volume : 5ml
 Prepared by : POrreto Analyzed by : SDeeso

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| 16 |
| 17 |

QC SUMMARIES

METHOD 3520C/8015B
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client      : EUROFINS EATON ANALYTICAL      Date Collected: 11/10/22 16:45
Project     : 380-26568                      Date Received: 11/10/22
Batch No.   : 22K032                         Date Extracted: 11/10/22 16:45
Sample ID   : MBLK1W                         Date Analyzed: 11/11/22 15:40
Lab Samp ID: DSK016WB                       Dilution Factor: 1
Lab File ID: LK10064A                       Matrix: WATER
Ext Btch ID: 22DSK016W                      % Moisture: NA
Calib. Ref.: LK10055A                       Instrument ID: D5
=====

```

| PARAMETERS | RESULTS (mg/L) | RL (mg/L) | MDL (mg/L) |
|------------|-------------------|--------------|---------------|
| Diesel | ND | 0.025 | 0.012 |
| Motor Oil | ND | 0.050 | 0.025 |

| SURROGATE PARAMETERS | RESULT | SPK_AMT | %RECOVERY | QC LIMIT |
|----------------------|--------|---------|-----------|----------|
| Bromobenzene | 0.511 | 0.500 | 102 | 60-130 |
| Hexacosane | 0.131 | 0.125 | 105 | 60-130 |

Notes:

Parameter H-C Range
Diesel C10-C24
Motor Oil C24-C36

Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.

Sample Amount : 1000ml Final Volume : 5ml
Prepared by : POrto Analyzed by : SDeeso

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL
PROJECT : 380-26568
BATCH NO. : 22K032
METHOD : 3520C/8015B

| | | | |
|------------------|------------------|----------------|----------------|
| MATRIX | : WATER | | % MOISTURE:NA |
| DILUTION FACTOR: | 1 | 1 | 1 |
| SAMPLE ID | : MBLK1W | LCS1W | LCD1W |
| LAB SAMPLE ID | : DSK016WB | DSK016WL | DSK016WC |
| LAB FILE ID | : LK10064A | LK10065A | LK10066A |
| DATE PREPARED | : 11/10/22 16:45 | 11/10/22 16:45 | 11/10/22 16:45 |
| DATE ANALYZED | : 11/11/22 15:40 | 11/11/22 15:59 | 11/11/22 16:17 |
| PREP BATCH | : 22DSK016W | 22DSK016W | 22DSK016W |
| CALIBRATION REF: | LK10055A | LK10055A | LK10055A |

ACCESSION:

| PARAMETERS | MBResult (mg/L) | SpikeAmt (mg/L) | LCSResult (mg/L) | LCSRec (%) | SpikeAmt (mg/L) | LCDResult (mg/L) | LCDRec (%) | RPD (%) | QCLimit (%) | MaxRPD (%) |
|------------|--------------------|--------------------|---------------------|---------------|--------------------|---------------------|---------------|------------|----------------|---------------|
| Diesel | ND | 2.50 | 2.74 | 110 | 2.50 | 2.65 | 106 | 3 | 50-130 | 30 |

| SURROGATE PARAMETERS | SpikeAmt (mg/L) | LCSResult (mg/L) | LCSRec (%) | SpikeAmt (mg/L) | LCDResult (mg/L) | LCDRec (%) | QCLimit (%) |
|----------------------|--------------------|---------------------|---------------|--------------------|---------------------|---------------|----------------|
| Bromobenzene | 0.500 | 0.507 | 101 | 0.500 | 0.507 | 101 | 60-130 |
| Hexacosane | 0.125 | 0.131 | 105 | 0.125 | 0.129 | 103 | 60-130 |

MB: Method Blank sample LCS: Lab Control Sample LCD: Lab Control Sample Duplicate

METHOD 3520C/8015B
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client      : EUROFINS EATON ANALYTICAL      Date Collected: 11/10/22 16:45
Project     : 380-26568                      Date Received: 11/10/22
Batch No.   : 22K032                         Date Extracted: 11/10/22 16:45
Sample ID   : MBLK1W                         Date Analyzed: 11/11/22 15:40
Lab Samp ID : DSK016WB                       Dilution Factor: 1
Lab File ID : LK10064A                       Matrix: WATER
Ext Btch ID : 22DSK016W                     % Moisture: NA
Calib. Ref.: LK10056A                       Instrument ID: D5
=====
    
```

| PARAMETERS | RESULTS (mg/L) | RL (mg/L) | MDL (mg/L) |
|------------|-------------------|--------------|---------------|
| JP5 | ND | 0.050 | 0.025 |

| SURROGATE PARAMETERS | RESULT | SPK_AMT | %RECOVERY | QC LIMIT |
|----------------------|--------|---------|-----------|----------|
| Bromobenzene | 0.511 | 0.500 | 102 | 60-130 |
| Hexacosane | 0.131 | 0.125 | 105 | 60-130 |

Notes:

RL : Reporting Limit
 Parameter H-C Range
 JP5 C8-C18
 Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.

Sample Amount : 1000ml Final Volume : 5ml
 Prepared by : POrreto Analyzed by : SDeeso

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL
PROJECT : 380-26568
BATCH NO. : 22K032
METHOD : 3520C/8015B

| | | |
|--------------------------------|----------------|----------------|
| MATRIX : WATER | | % MOISTURE:NA |
| DILUTION FACTOR: 1 | 1 | 1 |
| SAMPLE ID : MBLK1W | LCS1W | LCD1W |
| LAB SAMPLE ID : DSK016WB | J5K016WL | J5K016WC |
| LAB FILE ID : LK10064A | LK10067A | LK10068A |
| DATE PREPARED : 11/10/22 16:45 | 11/10/22 16:45 | 11/10/22 16:45 |
| DATE ANALYZED : 11/11/22 15:40 | 11/11/22 16:36 | 11/11/22 16:54 |
| PREP BATCH : 22DSK016W | 22DSK016W | 22DSK016W |
| CALIBRATION REF: LK10056A | LK10056A | LK10056A |

ACCESSION:

| PARAMETERS | MBResult (mg/L) | SpikeAmt (mg/L) | LCSResult (mg/L) | LCSRec (%) | SpikeAmt (mg/L) | LCDResult (mg/L) | LCDRec (%) | RPD (%) | QCLimit (%) | MaxRPD (%) |
|------------|--------------------|--------------------|---------------------|---------------|--------------------|---------------------|---------------|------------|----------------|---------------|
| JP5 | ND | 2.50 | 2.82 | 113 | 2.50 | 2.57 | 103 | 9 | 30-160 | 30 |

| SURROGATE PARAMETERS | SpikeAmt (mg/L) | LCSResult (mg/L) | LCSRec (%) | SpikeAmt (mg/L) | LCDResult (mg/L) | LCDRec (%) | QCLimit (%) |
|----------------------|--------------------|---------------------|---------------|--------------------|---------------------|---------------|----------------|
| Bromobenzene | 0.500 | 0.494 | 99 | 0.500 | 0.483 | 97 | 60-130 |
| Hexacosane | 0.125 | 0.133 | 106 | 0.125 | 0.118 | 94 | 60-130 |

MB: Method Blank sample LCS: Lab Control Sample LCD: Lab Control Sample Duplicate

METHOD 3520C/8015B
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client      : EUROFINS EATON ANALYTICAL   Date Collected: 11/10/22 16:45
Project     : 380-26568                   Date Received: 11/10/22
Batch No.   : 22K032                       Date Extracted: 11/10/22 16:45
Sample ID   : MBLK1W                       Date Analyzed: 11/11/22 15:40
Lab Samp ID: DSK016WB                       Dilution Factor: 1
Lab File ID: LK10064A                       Matrix: WATER
Ext Btch ID: 22DSK016W                       % Moisture: NA
Calib. Ref.: LK10057A                       Instrument ID: D5
=====
    
```

| PARAMETERS | RESULTS (mg/L) | RL (mg/L) | MDL (mg/L) |
|------------|-------------------|--------------|---------------|
| JP8 | ND | 0.050 | 0.025 |

| SURROGATE PARAMETERS | RESULT | SPK_AMT | %RECOVERY | QC LIMIT |
|----------------------|--------|---------|-----------|----------|
| Bromobenzene | 0.511 | 0.500 | 102 | 60-130 |
| Hexacosane | 0.131 | 0.125 | 105 | 60-130 |

Notes:

RL : Reporting Limit

Parameter H-C Range

JP8 C8-C18

Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.

Sample Amount : 1000ml

Final Volume : 5ml

Prepared by : POrto

Analyzed by : SDeeso

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL
PROJECT : 380-26568
BATCH NO. : 22K032
METHOD : 3520C/8015B

MATRIX : WATER % MOISTURE:NA
DILUTION FACTOR: 1 1 1
SAMPLE ID : MBLK1W LCS1W LCD1W
LAB SAMPLE ID : DSK016WB J8K016WL J8K016WC
LAB FILE ID : LK10064A LK10069A LK10070A
DATE PREPARED : 11/10/22 16:45 11/10/22 16:45 11/10/22 16:45
DATE ANALYZED : 11/11/22 15:40 11/11/22 17:12 11/11/22 17:31
PREP BATCH : 22DSK016W 22DSK016W 22DSK016W
CALIBRATION REF: LK10057A LK10057A LK10057A

ACCESSION:

| PARAMETERS | MBResult (mg/L) | SpikeAmt (mg/L) | LCSResult (mg/L) | LCSRec (%) | SpikeAmt (mg/L) | LCDResult (mg/L) | LCDRec (%) | RPD (%) | QCLimit (%) | MaxRPD (%) |
|------------|--------------------|--------------------|---------------------|---------------|--------------------|---------------------|---------------|------------|----------------|---------------|
| JP8 | ND | 2.50 | 2.98 | 119 | 2.50 | 2.84 | 114 | 5 | 30-160 | 30 |

| SURROGATE PARAMETERS | SpikeAmt (mg/L) | LCSResult (mg/L) | LCSRec (%) | SpikeAmt (mg/L) | LCDResult (mg/L) | LCDRec (%) | QCLimit (%) |
|----------------------|--------------------|---------------------|---------------|--------------------|---------------------|---------------|----------------|
| Bromobenzene | 0.500 | 0.477 | 95 | 0.500 | 0.467 | 93 | 60-130 |
| Hexacosane | 0.125 | 0.131 | 105 | 0.125 | 0.110 | 88 | 60-130 |

MB: Method Blank sample LCS: Lab Control Sample LCD: Lab Control Sample Duplicate

November 28, 2022

Debbie Frank
Eurofins Eaton Analytical
750 Royal Oaks Drive
Suite 100
Monrovia, CA 91016-

Project Name: RED-HILL Project # 38001111 Job # 380-26568-1
Physis Project ID: 1407003-332

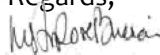
Dear Debbie,

Enclosed are the analytical results for samples submitted to PHYSIS Environmental Laboratories, Inc. (PHYSIS) on 11/2/2022. A total of 3 samples were received for analysis in accordance with the attached chain of custody (COC). Per the COC, the samples were analyzed for:

| Organics |
|--|
| Polynuclear Aromatic Hydrocarbons by EPA 625.1 |
| Disalicylidenepropanediamine by EPA 625.1 |
| Dibenzo [a,l] Pyrene w/ PAHs by EPA 625.1 |

Analytical results in this report apply only to samples submitted to PHYSIS in accordance with the COC and are intended to be considered in their entirety.

Please feel free to contact me at any time with any questions. PHYSIS appreciates the opportunity to provide you with our analytical and support services.

Regards,

Misty Mercier
714 602-5320
Extension 202
mistymercier@physislabs.com

PROJECT SAMPLE LIST

Eurofins Eaton Analytical

PHYSIS Project ID: 1407003-332

RED-HILL Project # 38001111 Job # 380-26568-1

Total Samples: 3

| PHYSIS ID | Sample ID | Description | Date | Time | Matrix | Sample Type |
|-----------|----------------------------|-------------|-----------|-------|-------------|---------------|
| 101200 | AIEA GULCH WELLS PUMP 1 | 380-26568-1 | 10/31/202 | 10:24 | Samplewater | Not Specified |
| 101201 | AIEA WELLS PUMPS 1&2 (260) | 380-26568-2 | 10/31/202 | 10:03 | Samplewater | Not Specified |
| 101202 | AIEA GULCH WELLS PUMP 2 | 380-26568-3 | 10/31/202 | 10:38 | Samplewater | Not Specified |

ABBREVIATIONS and ACRONYMS

| | |
|------|--|
| QM | Quality Manual |
| QA | Quality Assurance |
| QC | Quality Control |
| MDL | method detection limit |
| RL | reporting limit |
| R1 | project sample |
| R2 | project sample replicate |
| MS1 | matrix spike |
| MS2 | matrix spike replicate |
| B1 | procedural blank |
| B2 | procedural blank replicate |
| BS1 | blank spike |
| BS2 | blank spike replicate |
| LCS1 | laboratory control spike |
| LCS2 | laboratory control spike replicate |
| LCM1 | laboratory control material |
| LCM2 | laboratory control material replicate |
| CRM1 | certified reference material |
| CRM2 | certified reference material replicate |
| RPD | relative percent difference |
| LMW | low molecular weight |
| HMW | high molecular weight |

QUALITY ASSURANCE SUMMARY

LABORATORY BATCH: Physis' QM defines a laboratory batch as a group of 20 or fewer project samples of similar matrix, processed together under the same conditions and with the same reagents. QC samples are associated with each batch and were used to assess the validity of the sample analyses.

PROCEDURAL BLANK: Laboratory contamination introduced during method use is assessed through the preparation and analysis of procedural blanks is provided at a minimum frequency of one per batch.

ACCURACY: Accuracy of analytical measurements is the degree of closeness based on percent recovery calculations between measured values and the actual or true value and includes a combination of reproducibility error and systematic bias due to sampling and analytical operations. Accuracy of the project data was indicated by analysis of MS, BS, LCS, LCM, CRM, and/or surrogate spikes on a minimum frequency of one per batch. Physis' QM requires that 95% of the target compounds greater than 10 times the MDL be within the specified acceptance limits.

PRECISION: Precision is the agreement among a set of replicate measurements without assumption of knowledge of the true value and is based on RPD calculations between repeated values. Precision of the project data was determined by analysis of replicate MS₁/MS₂, BS₁/BS₂, LCS₁/LCS₂, LCM₁/LCM₂, CRM₁/CRM₂, surrogate spikes and/or replicate project sample analysis (R₁/R₂) on a minimum frequency of one per batch. Physis' QM requires that for 95% of the compounds greater than 10 times the MDL, the percent RPD should be within the specified acceptance range.

BLANK SPIKES: BS is the introduction of a known concentration of analyte into the procedural blank. BS demonstrates performance of the preparation and analytical methods on a clean matrix void of potential matrix related interferences. The BS is performed in laboratory deionized water, making these recoveries a better indicator of the efficiency of the laboratory method per se.

MATRIX SPIKES: MS is the introduction of a known concentration of analyte into a sample. MS samples demonstrate the effect a particular project sample matrix has on the accuracy of a measurement. Individually, MS samples also indicate the bias of analytical measurements due to chemical interferences inherent in the in the specific project sample spiked. Intrinsic target analyte concentration in the specific project sample can also significantly impact MS recovery.

CERTIFIED REFERENCE MATERIALS: CRMs are materials of various matrices for which analytical information has been determined and certified by a recognized authority. These are used to provide a quantitative assessment of the accuracy of an analytical method. CRMs provide evidence that the laboratory preparation and analysis produces results that are comparable to those obtained by an independent organization.

LABORATORY CONTROL MATERIAL: LCM is provided because a suitable natural seawater CRM is not available and can be used to indicate accuracy of the method. Physis' internal LCM is seawater collected at ~800 meters in the Southern California San Pedro Basin and can be used as a reference for background concentrations in clean, natural seawater for comparison to project samples.

LABORATORY CONTROL SPIKES: LCS is the introduction of a known concentration of analyte into Physis' LCM. LCS samples were employed to assess the effect the seawater matrix has on the accuracy of a measurement. LCS also indicate the bias of this method due to chemical interferences inherent in the in the seawater matrix. Intrinsic LCM concentration can also significantly impact LCS recovery.

SURROGATES: A surrogate is a pure analyte unlikely to be found in any project sample, behaves similarly to

the target analyte and most often used with organic analytical procedures. Surrogates are added in known concentration to all samples and are measured to indicate overall efficiency of the method including processing and analyses.

HOLDING TIME: Method recommended holding times are the length of time a project sample can be stored under specific conditions after collection and prior to analysis without significantly affecting the analyte's concentration. Holding times can be extended if preservation techniques are employed to reduce biodegradation, volatilization, oxidation, sorption, precipitation, and other physical and chemical processes.

SAMPLE STORAGE/RETENTION: In order to maintain chemical integrity prior to analysis, all samples submitted to Physis are refrigerated (liquids) or frozen (solids) upon receipt unless otherwise recommended by applicable methods. Solid samples are retained for 1 year from collection while liquid samples are retained until method recommended holding times elapse.

TOTAL/DISSOLVED FRACTION: In some instances, the results for the dissolved fraction may be higher than the total fraction for a particular analyte (e.g. trace metals). This is typically caused by the analytical variation for each result and indicates that the target analyte is primarily in the dissolved phase, within the sample.

PHYSIS QUALIFIER CODES

| CODE | DEFINITION |
|------|---|
| # | see Case Narrative |
| ND | analyte not detected at or above the MDL |
| B | analyte was detected in the procedural blank greater than 10 times the MDL |
| E | analyte concentration exceeds the upper limit of the linear calibration range, reported value is estimated |
| H | sample received and/or analyzed past the recommended holding time |
| J | analyte was detected at a concentration below the RL and above the MDL, reported value is estimated |
| N | insufficient sample, analysis could not be performed |
| M | analyte was outside the specified accuracy and/or precision acceptance limits due to matrix interference. The associated B/BS were within limits, therefore the sample data was reported without further clarification |
| SH | analyte concentration in the project sample exceeded the spike concentration, therefore accuracy and/or precision acceptance limits do not apply |
| SL | analyte results were lower than 10 times the MDL, therefore accuracy and/or precision acceptance limits do not apply |
| NH | project sample was heterogeneous and sample homogeneity could not be readily achieved using routine laboratory practices, therefore accuracy and/or precision acceptance limits do not apply |
| Q | analyte was outside the specified QAPP acceptance limits for precision and/or accuracy but within Physis derived acceptance limits, therefore the sample data was reported without further clarification |
| R | Physis' QM allows for 5% of the target compounds greater than 10 times the MDL to be outside the specified acceptance limits for precision and/or accuracy. This is often due to random error and does not indicate any significant problems with the analysis of these project samples |

CASE NARRATIVE

QUALIFIER NOTES

In addition to the use of analyte specific Physis Qualifier Codes where applicable, the following were also noted.

ND

MDL is listed due to report format restrictions; it is not used in reporting. Analytical results reported are ND at the RL.

ANALYTICAL REPORT

TERRA AURA
ENVIRONMENTAL LABORATORIES, INC.

Innovative Solutions for Nature

| |
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Base/Neutral Extractable Compounds

| ANALYTE | Method | Units | RESULT | DF | MDL | RL | Fraction | QA CODE | Batch ID | Date Processed | Date Analyzed |
|---|-----------|-------|--------|----|------|-----|----------|---------|----------|----------------|---------------|
| Sample ID: 101200-R1 AIEA GULCH WELLS PUMP 1 380-2 Matrix: Samplewater | | | | | | | | | | | |
| Disalicylideneprapanediamine | EPA 625.1 | µg/L | ND | 1 | 0.05 | 0.1 | Total | | O-40010 | 03-Nov-22 | 15-Nov-22 |
| Sample ID: 101201-R1 AIEA WELLS PUMPS 1&2 (260) 380- Matrix: Samplewater | | | | | | | | | | | |
| Disalicylideneprapanediamine | EPA 625.1 | µg/L | ND | 1 | 0.05 | 0.1 | Total | | O-40010 | 03-Nov-22 | 16-Nov-22 |
| Sample ID: 101202-R1 AIEA GULCH WELLS PUMP 1 380-2 Matrix: Samplewater | | | | | | | | | | | |
| Disalicylideneprapanediamine | EPA 625.1 | µg/L | ND | 1 | 0.05 | 0.1 | Total | | O-40010 | 03-Nov-22 | 16-Nov-22 |

Polynuclear Aromatic Hydrocarbons

| ANALYTE | Method | Units | RESULT | DF | MDL | RL | Fraction | QA CODE | Batch ID | Date Processed | Date Analyzed |
|-----------------------------|-------------------------------------|----------------------------|--------|----|-------|-------|-----------------|------------------------|----------|------------------|------------------|
| Sample ID: 101200-R1 | AIEA GULCH WELLS PUMP 1380-2 | Matrix: Samplewater | | | | | Sampled: | 31-Oct-22 10:24 | | Received: | 02-Nov-22 |
| (d10-Acenaphthene) | EPA 625.1 | % Recovery | 75 | 1 | | | Total | | O-40010 | 03-Nov-22 | 15-Nov-22 |
| (d10-Phenanthrene) | EPA 625.1 | % Recovery | 88 | 1 | | | Total | | O-40010 | 03-Nov-22 | 15-Nov-22 |
| (d12-Chrysene) | EPA 625.1 | % Recovery | 103 | 1 | | | Total | | O-40010 | 03-Nov-22 | 15-Nov-22 |
| (d12-Perylene) | EPA 625.1 | % Recovery | 82 | 1 | | | Total | | O-40010 | 03-Nov-22 | 15-Nov-22 |
| (d8-Naphthalene) | EPA 625.1 | % Recovery | 65 | 1 | | | Total | | O-40010 | 03-Nov-22 | 15-Nov-22 |
| 1-Methylnaphthalene | EPA 625.1 | µg/L | ND | 1 | 0.001 | 0.005 | Total | | O-40010 | 03-Nov-22 | 15-Nov-22 |
| 1-Methylphenanthrene | EPA 625.1 | µg/L | ND | 1 | 0.001 | 0.005 | Total | | O-40010 | 03-Nov-22 | 15-Nov-22 |
| 2,3,5-Trimethylnaphthalene | EPA 625.1 | µg/L | ND | 1 | 0.001 | 0.005 | Total | | O-40010 | 03-Nov-22 | 15-Nov-22 |
| 2,6-Dimethylnaphthalene | EPA 625.1 | µg/L | ND | 1 | 0.001 | 0.005 | Total | | O-40010 | 03-Nov-22 | 15-Nov-22 |
| 2-Methylnaphthalene | EPA 625.1 | µg/L | ND | 1 | 0.001 | 0.005 | Total | | O-40010 | 03-Nov-22 | 15-Nov-22 |
| Acenaphthene | EPA 625.1 | µg/L | ND | 1 | 0.001 | 0.005 | Total | | O-40010 | 03-Nov-22 | 15-Nov-22 |
| Acenaphthylene | EPA 625.1 | µg/L | ND | 1 | 0.001 | 0.005 | Total | | O-40010 | 03-Nov-22 | 15-Nov-22 |
| Anthracene | EPA 625.1 | µg/L | ND | 1 | 0.001 | 0.005 | Total | | O-40010 | 03-Nov-22 | 15-Nov-22 |
| Benz[a]anthracene | EPA 625.1 | µg/L | ND | 1 | 0.001 | 0.005 | Total | | O-40010 | 03-Nov-22 | 15-Nov-22 |
| Benzo[a]pyrene | EPA 625.1 | µg/L | ND | 1 | 0.001 | 0.005 | Total | | O-40010 | 03-Nov-22 | 15-Nov-22 |
| Benzo[b]fluoranthene | EPA 625.1 | µg/L | ND | 1 | 0.001 | 0.005 | Total | | O-40010 | 03-Nov-22 | 15-Nov-22 |
| Benzo[e]pyrene | EPA 625.1 | µg/L | ND | 1 | 0.001 | 0.005 | Total | | O-40010 | 03-Nov-22 | 15-Nov-22 |
| Benzo[g,h,i]perylene | EPA 625.1 | µg/L | ND | 1 | 0.001 | 0.005 | Total | | O-40010 | 03-Nov-22 | 15-Nov-22 |
| Benzo[k]fluoranthene | EPA 625.1 | µg/L | ND | 1 | 0.001 | 0.005 | Total | | O-40010 | 03-Nov-22 | 15-Nov-22 |
| Biphenyl | EPA 625.1 | µg/L | ND | 1 | 0.001 | 0.005 | Total | | O-40010 | 03-Nov-22 | 15-Nov-22 |
| Chrysene | EPA 625.1 | µg/L | ND | 1 | 0.001 | 0.005 | Total | | O-40010 | 03-Nov-22 | 15-Nov-22 |
| Dibenz[a,h]anthracene | EPA 625.1 | µg/L | ND | 1 | 0.001 | 0.005 | Total | | O-40010 | 03-Nov-22 | 15-Nov-22 |
| Dibenzo[a,l]pyrene | EPA 625.1 | µg/L | ND | 1 | 0.001 | 0.005 | Total | | O-40010 | 03-Nov-22 | 15-Nov-22 |
| Dibenzothiophene | EPA 625.1 | µg/L | ND | 1 | 0.001 | 0.005 | Total | | O-40010 | 03-Nov-22 | 15-Nov-22 |

Polynuclear Aromatic Hydrocarbons

| ANALYTE | Method | Units | RESULT | DF | MDL | RL | Fraction | QA CODE | Batch ID | Date Processed | Date Analyzed |
|------------------------|-----------|-------|--------|----|-------|-------|----------|---------|----------|----------------|---------------|
| Fluoranthene | EPA 625.1 | µg/L | ND | 1 | 0.001 | 0.005 | Total | | O-40010 | 03-Nov-22 | 15-Nov-22 |
| Fluorene | EPA 625.1 | µg/L | ND | 1 | 0.001 | 0.005 | Total | | O-40010 | 03-Nov-22 | 15-Nov-22 |
| Indeno[1,2,3-cd]pyrene | EPA 625.1 | µg/L | ND | 1 | 0.001 | 0.005 | Total | | O-40010 | 03-Nov-22 | 15-Nov-22 |
| Naphthalene | EPA 625.1 | µg/L | ND | 1 | 0.001 | 0.005 | Total | | O-40010 | 03-Nov-22 | 15-Nov-22 |
| Perylene | EPA 625.1 | µg/L | ND | 1 | 0.001 | 0.005 | Total | | O-40010 | 03-Nov-22 | 15-Nov-22 |
| Phenanthrene | EPA 625.1 | µg/L | ND | 1 | 0.001 | 0.005 | Total | | O-40010 | 03-Nov-22 | 15-Nov-22 |
| Pyrene | EPA 625.1 | µg/L | ND | 1 | 0.001 | 0.005 | Total | | O-40010 | 03-Nov-22 | 15-Nov-22 |



Polynuclear Aromatic Hydrocarbons

| ANALYTE | Method | Units | RESULT | DF | MDL | RL | Fraction | QA CODE | Batch ID | Date Processed | Date Analyzed | |
|-----------------------------|--|------------|--------|----|-------|-------|-----------------|------------------------|------------------|------------------|---------------|--|
| Sample ID: 101201-R1 | AIEA WELLS PUMPS 1&2 (260) 380- Matrix: Samplewater | | | | | | Sampled: | 31-Oct-22 10:03 | Received: | 02-Nov-22 | | |
| (d10-Acenaphthene) | EPA 625.1 | % Recovery | 80 | 1 | | | Total | | O-40010 | 03-Nov-22 | 16-Nov-22 | |
| (d10-Phenanthrene) | EPA 625.1 | % Recovery | 86 | 1 | | | Total | | O-40010 | 03-Nov-22 | 16-Nov-22 | |
| (d12-Chrysene) | EPA 625.1 | % Recovery | 92 | 1 | | | Total | | O-40010 | 03-Nov-22 | 16-Nov-22 | |
| (d12-Perylene) | EPA 625.1 | % Recovery | 78 | 1 | | | Total | | O-40010 | 03-Nov-22 | 16-Nov-22 | |
| (d8-Naphthalene) | EPA 625.1 | % Recovery | 69 | 1 | | | Total | | O-40010 | 03-Nov-22 | 16-Nov-22 | |
| 1-Methylnaphthalene | EPA 625.1 | µg/L | ND | 1 | 0.001 | 0.005 | Total | | O-40010 | 03-Nov-22 | 16-Nov-22 | |
| 1-Methylphenanthrene | EPA 625.1 | µg/L | ND | 1 | 0.001 | 0.005 | Total | | O-40010 | 03-Nov-22 | 16-Nov-22 | |
| 2,3,5-Trimethylnaphthalene | EPA 625.1 | µg/L | ND | 1 | 0.001 | 0.005 | Total | | O-40010 | 03-Nov-22 | 16-Nov-22 | |
| 2,6-Dimethylnaphthalene | EPA 625.1 | µg/L | ND | 1 | 0.001 | 0.005 | Total | | O-40010 | 03-Nov-22 | 16-Nov-22 | |
| 2-Methylnaphthalene | EPA 625.1 | µg/L | ND | 1 | 0.001 | 0.005 | Total | | O-40010 | 03-Nov-22 | 16-Nov-22 | |
| Acenaphthene | EPA 625.1 | µg/L | ND | 1 | 0.001 | 0.005 | Total | | O-40010 | 03-Nov-22 | 16-Nov-22 | |
| Acenaphthylene | EPA 625.1 | µg/L | ND | 1 | 0.001 | 0.005 | Total | | O-40010 | 03-Nov-22 | 16-Nov-22 | |
| Anthracene | EPA 625.1 | µg/L | ND | 1 | 0.001 | 0.005 | Total | | O-40010 | 03-Nov-22 | 16-Nov-22 | |
| Benz[a]anthracene | EPA 625.1 | µg/L | ND | 1 | 0.001 | 0.005 | Total | | O-40010 | 03-Nov-22 | 16-Nov-22 | |
| Benzo[a]pyrene | EPA 625.1 | µg/L | ND | 1 | 0.001 | 0.005 | Total | | O-40010 | 03-Nov-22 | 16-Nov-22 | |
| Benzo[b]fluoranthene | EPA 625.1 | µg/L | ND | 1 | 0.001 | 0.005 | Total | | O-40010 | 03-Nov-22 | 16-Nov-22 | |
| Benzo[e]pyrene | EPA 625.1 | µg/L | ND | 1 | 0.001 | 0.005 | Total | | O-40010 | 03-Nov-22 | 16-Nov-22 | |
| Benzo[g,h,i]perylene | EPA 625.1 | µg/L | ND | 1 | 0.001 | 0.005 | Total | | O-40010 | 03-Nov-22 | 16-Nov-22 | |
| Benzo[k]fluoranthene | EPA 625.1 | µg/L | ND | 1 | 0.001 | 0.005 | Total | | O-40010 | 03-Nov-22 | 16-Nov-22 | |
| Biphenyl | EPA 625.1 | µg/L | ND | 1 | 0.001 | 0.005 | Total | | O-40010 | 03-Nov-22 | 16-Nov-22 | |
| Chrysene | EPA 625.1 | µg/L | ND | 1 | 0.001 | 0.005 | Total | | O-40010 | 03-Nov-22 | 16-Nov-22 | |
| Dibenz[a,h]anthracene | EPA 625.1 | µg/L | ND | 1 | 0.001 | 0.005 | Total | | O-40010 | 03-Nov-22 | 16-Nov-22 | |
| Dibenzo[a,l]pyrene | EPA 625.1 | µg/L | ND | 1 | 0.001 | 0.005 | Total | | O-40010 | 03-Nov-22 | 16-Nov-22 | |
| Dibenzothiophene | EPA 625.1 | µg/L | ND | 1 | 0.001 | 0.005 | Total | | O-40010 | 03-Nov-22 | 16-Nov-22 | |

Polynuclear Aromatic Hydrocarbons

| ANALYTE | Method | Units | RESULT | DF | MDL | RL | Fraction | QA CODE | Batch ID | Date Processed | Date Analyzed |
|------------------------|-----------|-------|--------|----|-------|-------|----------|---------|----------|----------------|---------------|
| Fluoranthene | EPA 625.1 | µg/L | ND | 1 | 0.001 | 0.005 | Total | | O-40010 | 03-Nov-22 | 16-Nov-22 |
| Fluorene | EPA 625.1 | µg/L | ND | 1 | 0.001 | 0.005 | Total | | O-40010 | 03-Nov-22 | 16-Nov-22 |
| Indeno[1,2,3-cd]pyrene | EPA 625.1 | µg/L | ND | 1 | 0.001 | 0.005 | Total | | O-40010 | 03-Nov-22 | 16-Nov-22 |
| Naphthalene | EPA 625.1 | µg/L | ND | 1 | 0.001 | 0.005 | Total | | O-40010 | 03-Nov-22 | 16-Nov-22 |
| Perylene | EPA 625.1 | µg/L | ND | 1 | 0.001 | 0.005 | Total | | O-40010 | 03-Nov-22 | 16-Nov-22 |
| Phenanthrene | EPA 625.1 | µg/L | ND | 1 | 0.001 | 0.005 | Total | | O-40010 | 03-Nov-22 | 16-Nov-22 |
| Pyrene | EPA 625.1 | µg/L | ND | 1 | 0.001 | 0.005 | Total | | O-40010 | 03-Nov-22 | 16-Nov-22 |



Polynuclear Aromatic Hydrocarbons

| ANALYTE | Method | Units | RESULT | DF | MDL | RL | Fraction | QA CODE | Batch ID | Date Processed | Date Analyzed |
|-----------------------------|-------------------------------------|----------------------------|--------|----|-------|-------|-----------------|------------------------|----------|------------------|------------------|
| Sample ID: 101202-R1 | AIEA GULCH WELLS PUMP 1380-2 | Matrix: Samplewater | | | | | Sampled: | 31-Oct-22 10:38 | | Received: | 02-Nov-22 |
| (d10-Acenaphthene) | EPA 625.1 | % Recovery | 61 | 1 | | | Total | | O-40010 | 03-Nov-22 | 16-Nov-22 |
| (d10-Phenanthrene) | EPA 625.1 | % Recovery | 69 | 1 | | | Total | | O-40010 | 03-Nov-22 | 16-Nov-22 |
| (d12-Chrysene) | EPA 625.1 | % Recovery | 92 | 1 | | | Total | | O-40010 | 03-Nov-22 | 16-Nov-22 |
| (d12-Perylene) | EPA 625.1 | % Recovery | 81 | 1 | | | Total | | O-40010 | 03-Nov-22 | 16-Nov-22 |
| (d8-Naphthalene) | EPA 625.1 | % Recovery | 39 | 1 | | | Total | | O-40010 | 03-Nov-22 | 16-Nov-22 |
| 1-Methylnaphthalene | EPA 625.1 | µg/L | ND | 1 | 0.001 | 0.005 | Total | | O-40010 | 03-Nov-22 | 16-Nov-22 |
| 1-Methylphenanthrene | EPA 625.1 | µg/L | ND | 1 | 0.001 | 0.005 | Total | | O-40010 | 03-Nov-22 | 16-Nov-22 |
| 2,3,5-Trimethylnaphthalene | EPA 625.1 | µg/L | ND | 1 | 0.001 | 0.005 | Total | | O-40010 | 03-Nov-22 | 16-Nov-22 |
| 2,6-Dimethylnaphthalene | EPA 625.1 | µg/L | ND | 1 | 0.001 | 0.005 | Total | | O-40010 | 03-Nov-22 | 16-Nov-22 |
| 2-Methylnaphthalene | EPA 625.1 | µg/L | ND | 1 | 0.001 | 0.005 | Total | | O-40010 | 03-Nov-22 | 16-Nov-22 |
| Acenaphthene | EPA 625.1 | µg/L | ND | 1 | 0.001 | 0.005 | Total | | O-40010 | 03-Nov-22 | 16-Nov-22 |
| Acenaphthylene | EPA 625.1 | µg/L | ND | 1 | 0.001 | 0.005 | Total | | O-40010 | 03-Nov-22 | 16-Nov-22 |
| Anthracene | EPA 625.1 | µg/L | ND | 1 | 0.001 | 0.005 | Total | | O-40010 | 03-Nov-22 | 16-Nov-22 |
| Benz[a]anthracene | EPA 625.1 | µg/L | ND | 1 | 0.001 | 0.005 | Total | | O-40010 | 03-Nov-22 | 16-Nov-22 |
| Benzo[a]pyrene | EPA 625.1 | µg/L | ND | 1 | 0.001 | 0.005 | Total | | O-40010 | 03-Nov-22 | 16-Nov-22 |
| Benzo[b]fluoranthene | EPA 625.1 | µg/L | ND | 1 | 0.001 | 0.005 | Total | | O-40010 | 03-Nov-22 | 16-Nov-22 |
| Benzo[e]pyrene | EPA 625.1 | µg/L | ND | 1 | 0.001 | 0.005 | Total | | O-40010 | 03-Nov-22 | 16-Nov-22 |
| Benzo[g,h,i]perylene | EPA 625.1 | µg/L | ND | 1 | 0.001 | 0.005 | Total | | O-40010 | 03-Nov-22 | 16-Nov-22 |
| Benzo[k]fluoranthene | EPA 625.1 | µg/L | ND | 1 | 0.001 | 0.005 | Total | | O-40010 | 03-Nov-22 | 16-Nov-22 |
| Biphenyl | EPA 625.1 | µg/L | ND | 1 | 0.001 | 0.005 | Total | | O-40010 | 03-Nov-22 | 16-Nov-22 |
| Chrysene | EPA 625.1 | µg/L | ND | 1 | 0.001 | 0.005 | Total | | O-40010 | 03-Nov-22 | 16-Nov-22 |
| Dibenz[a,h]anthracene | EPA 625.1 | µg/L | ND | 1 | 0.001 | 0.005 | Total | | O-40010 | 03-Nov-22 | 16-Nov-22 |
| Dibenzo[a,l]pyrene | EPA 625.1 | µg/L | ND | 1 | 0.001 | 0.005 | Total | | O-40010 | 03-Nov-22 | 16-Nov-22 |
| Dibenzothiophene | EPA 625.1 | µg/L | ND | 1 | 0.001 | 0.005 | Total | | O-40010 | 03-Nov-22 | 16-Nov-22 |

Polynuclear Aromatic Hydrocarbons

| ANALYTE | Method | Units | RESULT | DF | MDL | RL | Fraction | QA CODE | Batch ID | Date Processed | Date Analyzed |
|------------------------|-----------|-------|--------|----|-------|-------|----------|---------|----------|----------------|---------------|
| Fluoranthene | EPA 625.1 | µg/L | ND | 1 | 0.001 | 0.005 | Total | | O-40010 | 03-Nov-22 | 16-Nov-22 |
| Fluorene | EPA 625.1 | µg/L | ND | 1 | 0.001 | 0.005 | Total | | O-40010 | 03-Nov-22 | 16-Nov-22 |
| Indeno[1,2,3-cd]pyrene | EPA 625.1 | µg/L | ND | 1 | 0.001 | 0.005 | Total | | O-40010 | 03-Nov-22 | 16-Nov-22 |
| Naphthalene | EPA 625.1 | µg/L | ND | 1 | 0.001 | 0.005 | Total | | O-40010 | 03-Nov-22 | 16-Nov-22 |
| Perylene | EPA 625.1 | µg/L | ND | 1 | 0.001 | 0.005 | Total | | O-40010 | 03-Nov-22 | 16-Nov-22 |
| Phenanthrene | EPA 625.1 | µg/L | ND | 1 | 0.001 | 0.005 | Total | | O-40010 | 03-Nov-22 | 16-Nov-22 |
| Pyrene | EPA 625.1 | µg/L | ND | 1 | 0.001 | 0.005 | Total | | O-40010 | 03-Nov-22 | 16-Nov-22 |



QUALITY CONTROL REPORT

TERRA ENVIRONMENTAL LABORATORIES, INC. AURA

Innovative Solutions for Nature

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Base/Neutral Extractable Compounds

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | DF | MDL | RL | UNITS | SPIKE | | SOURCE | | ACCURACY | | PRECISION | | QA CODEc |
|------------------------------|----------|------------------------------|----|------|-----|----------------------------|-------|---------------------|--------|---------------------|----------|--------|-----------|------|----------|
| | | | | | | | LEVEL | RESULT | % | LIMITS | % | LIMITS | | | |
| Sample ID: 101199-B1 | | QAQC Procedural Blank | | | | Matrix: BlankMatrix | | Sampled: | | Received: | | | | | |
| | | Method: EPA 625.1 | | | | Batch ID: O-40010 | | Prepared: 31-Oct-22 | | Analyzed: 15-Nov-22 | | | | | |
| Disalicylidenepropanediamin | Total | ND | 1 | 0.05 | 0.1 | µg/L | | | | | | | | | |
| Sample ID: 101199-BS1 | | QAQC Procedural Blank | | | | Matrix: BlankMatrix | | Sampled: | | Received: | | | | | |
| | | Method: EPA 625.1 | | | | Batch ID: O-40010 | | Prepared: 31-Oct-22 | | Analyzed: 15-Nov-22 | | | | | |
| Disalicylidenepropanediamin | Total | 24.8 | 1 | 0.05 | 0.1 | µg/L | 50 | 0 | 50 | 50 - 150% | PASS | | | | |
| Sample ID: 101199-BS2 | | QAQC Procedural Blank | | | | Matrix: BlankMatrix | | Sampled: | | Received: | | | | | |
| | | Method: EPA 625.1 | | | | Batch ID: O-40010 | | Prepared: 31-Oct-22 | | Analyzed: 15-Nov-22 | | | | | |
| Disalicylidenepropanediamin | Total | 25.5 | 1 | 0.05 | 0.1 | µg/L | 50 | 0 | 51 | 50 - 150% | PASS | 2 | 30 | PASS | |

Polynuclear Aromatic Hydrocarbons

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | DF | MDL | RL | UNITS | SPIKE | SOURCE | ACCURACY | PRECISION | QA CODE |
|-----------------------------|----------|------------------------------|----|-------|----------------------------|-------------------|---------------------|--------|---------------------|-----------|---------|
| | | | | | | | LEVEL | RESULT | % LIMITS | % LIMITS | |
| Sample ID: 101199-B1 | | QAQC Procedural Blank | | | Matrix: BlankMatrix | | Sampled: | | Received: | | |
| | | Method: EPA 625.1 | | | | Batch ID: O-40010 | Prepared: 31-Oct-22 | | Analyzed: 15-Nov-22 | | |
| (d10-Acenaphthene) | Total | 84 | 1 | | | % Recovery | 100 | 84 | 27 - 133% | PASS | |
| (d10-Phenanthrene) | Total | 85 | 1 | | | % Recovery | 100 | 85 | 43 - 129% | PASS | |
| (d12-Chrysene) | Total | 111 | 1 | | | % Recovery | 100 | 111 | 52 - 144% | PASS | |
| (d12-Perylene) | Total | 87 | 1 | | | % Recovery | 100 | 87 | 36 - 161% | PASS | |
| (d8-Naphthalene) | Total | 59 | 1 | | | % Recovery | 100 | 59 | 25 - 125% | PASS | |
| 1-Methylnaphthalene | Total | ND | 1 | 0.001 | 0.005 | µg/L | | | | | |
| 1-Methylphenanthrene | Total | ND | 1 | 0.001 | 0.005 | µg/L | | | | | |
| 2,3,5-Trimethylnaphthalene | Total | ND | 1 | 0.001 | 0.005 | µg/L | | | | | |
| 2,6-Dimethylnaphthalene | Total | ND | 1 | 0.001 | 0.005 | µg/L | | | | | |
| 2-Methylnaphthalene | Total | ND | 1 | 0.001 | 0.005 | µg/L | | | | | |
| Acenaphthene | Total | ND | 1 | 0.001 | 0.005 | µg/L | | | | | |
| Acenaphthylene | Total | ND | 1 | 0.001 | 0.005 | µg/L | | | | | |
| Anthracene | Total | ND | 1 | 0.001 | 0.005 | µg/L | | | | | |
| Benz[a]anthracene | Total | ND | 1 | 0.001 | 0.005 | µg/L | | | | | |
| Benzo[a]pyrene | Total | ND | 1 | 0.001 | 0.005 | µg/L | | | | | |
| Benzo[b]fluoranthene | Total | ND | 1 | 0.001 | 0.005 | µg/L | | | | | |
| Benzo[e]pyrene | Total | ND | 1 | 0.001 | 0.005 | µg/L | | | | | |
| Benzo[g,h,i]perylene | Total | ND | 1 | 0.001 | 0.005 | µg/L | | | | | |
| Benzo[k]fluoranthene | Total | ND | 1 | 0.001 | 0.005 | µg/L | | | | | |
| Biphenyl | Total | ND | 1 | 0.001 | 0.005 | µg/L | | | | | |
| Chrysene | Total | ND | 1 | 0.001 | 0.005 | µg/L | | | | | |
| Dibenz[a,h]anthracene | Total | ND | 1 | 0.001 | 0.005 | µg/L | | | | | |
| Dibenzo[a,l]pyrene | Total | ND | 1 | 0.001 | 0.005 | µg/L | | | | | |
| Dibenzothiophene | Total | ND | 1 | 0.001 | 0.005 | µg/L | | | | | |

Polynuclear Aromatic Hydrocarbons

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | DF | MDL | RL | UNITS | SPIKE | SOURCE | ACCURACY | | PRECISION | | QA CODEc |
|------------------------|----------|--------|----|-------|-------|-------|-------|--------|----------|--------|-----------|--------|----------|
| | | | | | | | LEVEL | RESULT | % | LIMITS | % | LIMITS | |
| Fluoranthene | Total | ND | 1 | 0.001 | 0.005 | µg/L | | | | | | | |
| Fluorene | Total | ND | 1 | 0.001 | 0.005 | µg/L | | | | | | | |
| Indeno[1,2,3-cd]pyrene | Total | ND | 1 | 0.001 | 0.005 | µg/L | | | | | | | |
| Naphthalene | Total | ND | 1 | 0.001 | 0.005 | µg/L | | | | | | | |
| Perylene | Total | ND | 1 | 0.001 | 0.005 | µg/L | | | | | | | |
| Phenanthrene | Total | ND | 1 | 0.001 | 0.005 | µg/L | | | | | | | |
| Pyrene | Total | ND | 1 | 0.001 | 0.005 | µg/L | | | | | | | |



Polynuclear Aromatic Hydrocarbons

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | DF | MDL | RL | UNITS | SPIKE | SOURCE | ACCURACY | | PRECISION | QA CODE |
|------------------------------|----------|------------------------------|----|-------|----------------------------|------------|---------------------|-----------------|----------|------------------|-----------|---------|
| | | | | | | | LEVEL | RESULT | % | LIMITS | % | LIMITS |
| Sample ID: 101199-BS1 | | QAQC Procedural Blank | | | Matrix: BlankMatrix | | | Sampled: | | Received: | | |
| Method: EPA 625.1 | | Batch ID: O-40010 | | | Prepared: 31-Oct-22 | | Analyzed: 15-Nov-22 | | | | | |
| (d10-Acenaphthene) | Total | 86 | 1 | | | % Recovery | 100 | 0 | 86 | 27 - 133% | PASS | |
| (d10-Phenanthrene) | Total | 94 | 1 | | | % Recovery | 100 | 0 | 94 | 43 - 129% | PASS | |
| (d12-Chrysene) | Total | 89 | 1 | | | % Recovery | 100 | 0 | 89 | 52 - 144% | PASS | |
| (d12-Perylene) | Total | 90 | 1 | | | % Recovery | 100 | 0 | 90 | 36 - 161% | PASS | |
| (d8-Naphthalene) | Total | 69 | 1 | | | % Recovery | 100 | 0 | 69 | 25 - 125% | PASS | |
| 1-Methylnaphthalene | Total | 0.333 | 1 | 0.001 | 0.005 | µg/L | 0.5 | 0 | 67 | 31 - 128% | PASS | |
| 1-Methylphenanthrene | Total | 0.468 | 1 | 0.001 | 0.005 | µg/L | 0.5 | 0 | 94 | 66 - 127% | PASS | |
| 2,3,5-Trimethylnaphthalene | Total | 0.454 | 1 | 0.001 | 0.005 | µg/L | 0.5 | 0 | 91 | 55 - 122% | PASS | |
| 2,6-Dimethylnaphthalene | Total | 0.355 | 1 | 0.001 | 0.005 | µg/L | 0.5 | 0 | 71 | 48 - 120% | PASS | |
| 2-Methylnaphthalene | Total | 0.418 | 1 | 0.001 | 0.005 | µg/L | 0.5 | 0 | 84 | 47 - 130% | PASS | |
| Acenaphthene | Total | 0.436 | 1 | 0.001 | 0.005 | µg/L | 0.5 | 0 | 87 | 53 - 131% | PASS | |
| Acenaphthylene | Total | 0.377 | 1 | 0.001 | 0.005 | µg/L | 0.5 | 0 | 75 | 43 - 140% | PASS | |
| Anthracene | Total | 0.457 | 1 | 0.001 | 0.005 | µg/L | 0.5 | 0 | 91 | 58 - 135% | PASS | |
| Benz[a]anthracene | Total | 0.383 | 1 | 0.001 | 0.005 | µg/L | 0.5 | 0 | 77 | 55 - 145% | PASS | |
| Benzo[a]pyrene | Total | 0.418 | 1 | 0.001 | 0.005 | µg/L | 0.5 | 0 | 84 | 51 - 143% | PASS | |
| Benzo[b]fluoranthene | Total | 0.498 | 1 | 0.001 | 0.005 | µg/L | 0.5 | 0 | 100 | 46 - 165% | PASS | |
| Benzo[e]pyrene | Total | 0.488 | 1 | 0.001 | 0.005 | µg/L | 0.5 | 0 | 98 | 42 - 152% | PASS | |
| Benzo[g,h,i]perylene | Total | 0.449 | 1 | 0.001 | 0.005 | µg/L | 0.5 | 0 | 90 | 63 - 133% | PASS | |
| Benzo[k]fluoranthene | Total | 0.493 | 1 | 0.001 | 0.005 | µg/L | 0.5 | 0 | 99 | 56 - 145% | PASS | |
| Biphenyl | Total | 0.363 | 1 | 0.001 | 0.005 | µg/L | 0.5 | 0 | 73 | 56 - 119% | PASS | |
| Chrysene | Total | 0.409 | 1 | 0.001 | 0.005 | µg/L | 0.5 | 0 | 82 | 56 - 141% | PASS | |
| Dibenz[a,h]anthracene | Total | 0.471 | 1 | 0.001 | 0.005 | µg/L | 0.5 | 0 | 94 | 55 - 150% | PASS | |
| Dibenzo[a,l]pyrene | Total | 0.163 | 1 | 0.001 | 0.005 | µg/L | 0.25 | 0 | 65 | 50 - 150% | PASS | |
| Dibenzothiophene | Total | 0.452 | 1 | 0.001 | 0.005 | µg/L | 0.5 | 0 | 90 | 75 - 113% | PASS | |

Polynuclear Aromatic Hydrocarbons

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | DF | MDL | RL | UNITS | SPIKE | SOURCE | ACCURACY | | PRECISION | | QA CODE _c |
|------------------------|----------|--------|----|-------|-------|-------|-------|--------|----------|-----------|-----------|--------|----------------------|
| | | | | | | | LEVEL | RESULT | % | LIMITS | % | LIMITS | |
| Fluoranthene | Total | 0.394 | 1 | 0.001 | 0.005 | µg/L | 0.5 | 0 | 79 | 60 - 146% | PASS | | |
| Fluorene | Total | 0.443 | 1 | 0.001 | 0.005 | µg/L | 0.5 | 0 | 89 | 58 - 131% | PASS | | |
| Indeno[1,2,3-cd]pyrene | Total | 0.479 | 1 | 0.001 | 0.005 | µg/L | 0.5 | 0 | 96 | 50 - 151% | PASS | | |
| Naphthalene | Total | 0.349 | 1 | 0.001 | 0.005 | µg/L | 0.5 | 0 | 70 | 41 - 126% | PASS | | |
| Perylene | Total | 0.463 | 1 | 0.001 | 0.005 | µg/L | 0.5 | 0 | 93 | 48 - 141% | PASS | | |
| Phenanthrene | Total | 0.478 | 1 | 0.001 | 0.005 | µg/L | 0.5 | 0 | 96 | 67 - 127% | PASS | | |
| Pyrene | Total | 0.369 | 1 | 0.001 | 0.005 | µg/L | 0.5 | 0 | 74 | 54 - 156% | PASS | | |



Polynuclear Aromatic Hydrocarbons

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | DF | MDL | RL | UNITS | SPIKE | SOURCE | ACCURACY | | PRECISION | | QA CODE | | |
|------------------------------|----------|------------------------------|----|-------|----------------------------|-------|------------|---------------------|----------|--------|------------------|--------|---------|----|------|
| | | | | | | | LEVEL | RESULT | % | LIMITS | % | LIMITS | | | |
| Sample ID: 101199-BS2 | | QAQC Procedural Blank | | | Matrix: BlankMatrix | | | Sampled: | | | Received: | | | | |
| Method: EPA 625.1 | | Batch ID: O-40010 | | | Prepared: 31-Oct-22 | | | Analyzed: 15-Nov-22 | | | | | | | |
| (d10-Acenaphthene) | Total | 81 | 1 | | | | % Recovery | 100 | 0 | 81 | 27 - 133% | PASS | 6 | 30 | PASS |
| (d10-Phenanthrene) | Total | 91 | 1 | | | | % Recovery | 100 | 0 | 91 | 43 - 129% | PASS | 3 | 30 | PASS |
| (d12-Chrysene) | Total | 89 | 1 | | | | % Recovery | 100 | 0 | 89 | 52 - 144% | PASS | 0 | 30 | PASS |
| (d12-Perylene) | Total | 88 | 1 | | | | % Recovery | 100 | 0 | 88 | 36 - 161% | PASS | 2 | 30 | PASS |
| (d8-Naphthalene) | Total | 72 | 1 | | | | % Recovery | 100 | 0 | 72 | 25 - 125% | PASS | 4 | 30 | PASS |
| 1-Methylnaphthalene | Total | 0.315 | 1 | 0.001 | 0.005 | µg/L | | 0.5 | 0 | 63 | 31 - 128% | PASS | 6 | 30 | PASS |
| 1-Methylphenanthrene | Total | 0.449 | 1 | 0.001 | 0.005 | µg/L | | 0.5 | 0 | 90 | 66 - 127% | PASS | 4 | 30 | PASS |
| 2,3,5-Trimethylnaphthalene | Total | 0.411 | 1 | 0.001 | 0.005 | µg/L | | 0.5 | 0 | 82 | 55 - 122% | PASS | 10 | 30 | PASS |
| 2,6-Dimethylnaphthalene | Total | 0.396 | 1 | 0.001 | 0.005 | µg/L | | 0.5 | 0 | 79 | 48 - 120% | PASS | 11 | 30 | PASS |
| 2-Methylnaphthalene | Total | 0.34 | 1 | 0.001 | 0.005 | µg/L | | 0.5 | 0 | 68 | 47 - 130% | PASS | 21 | 30 | PASS |
| Acenaphthene | Total | 0.404 | 1 | 0.001 | 0.005 | µg/L | | 0.5 | 0 | 81 | 53 - 131% | PASS | 7 | 30 | PASS |
| Acenaphthylene | Total | 0.408 | 1 | 0.001 | 0.005 | µg/L | | 0.5 | 0 | 82 | 43 - 140% | PASS | 9 | 30 | PASS |
| Anthracene | Total | 0.445 | 1 | 0.001 | 0.005 | µg/L | | 0.5 | 0 | 89 | 58 - 135% | PASS | 2 | 30 | PASS |
| Benz[a]anthracene | Total | 0.384 | 1 | 0.001 | 0.005 | µg/L | | 0.5 | 0 | 77 | 55 - 145% | PASS | 0 | 30 | PASS |
| Benzo[a]pyrene | Total | 0.41 | 1 | 0.001 | 0.005 | µg/L | | 0.5 | 0 | 82 | 51 - 143% | PASS | 2 | 30 | PASS |
| Benzo[b]fluoranthene | Total | 0.509 | 1 | 0.001 | 0.005 | µg/L | | 0.5 | 0 | 102 | 46 - 165% | PASS | 2 | 30 | PASS |
| Benzo[e]pyrene | Total | 0.479 | 1 | 0.001 | 0.005 | µg/L | | 0.5 | 0 | 96 | 42 - 152% | PASS | 2 | 30 | PASS |
| Benzo[g,h,i]perylene | Total | 0.426 | 1 | 0.001 | 0.005 | µg/L | | 0.5 | 0 | 85 | 63 - 133% | PASS | 6 | 30 | PASS |
| Benzo[k]fluoranthene | Total | 0.482 | 1 | 0.001 | 0.005 | µg/L | | 0.5 | 0 | 96 | 56 - 145% | PASS | 3 | 30 | PASS |
| Biphenyl | Total | 0.393 | 1 | 0.001 | 0.005 | µg/L | | 0.5 | 0 | 79 | 56 - 119% | PASS | 8 | 30 | PASS |
| Chrysene | Total | 0.411 | 1 | 0.001 | 0.005 | µg/L | | 0.5 | 0 | 82 | 56 - 141% | PASS | 0 | 30 | PASS |
| Dibenz[a,h]anthracene | Total | 0.499 | 1 | 0.001 | 0.005 | µg/L | | 0.5 | 0 | 100 | 55 - 150% | PASS | 6 | 30 | PASS |
| Dibenzo[a,l]pyrene | Total | 0.134 | 1 | 0.001 | 0.005 | µg/L | | 0.25 | 0 | 54 | 50 - 150% | PASS | 18 | 30 | PASS |
| Dibenzothiophene | Total | 0.443 | 1 | 0.001 | 0.005 | µg/L | | 0.5 | 0 | 89 | 75 - 113% | PASS | 1 | 30 | PASS |

Polynuclear Aromatic Hydrocarbons

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | DF | MDL | RL | UNITS | SPIKE | SOURCE | ACCURACY | | PRECISION | | QA CODE _c | |
|------------------------|----------|--------|----|-------|-------|-------|-------|--------|----------|-----------|-----------|--------|----------------------|------|
| | | | | | | | LEVEL | RESULT | % | LIMITS | % | LIMITS | | |
| Fluoranthene | Total | 0.468 | 1 | 0.001 | 0.005 | µg/L | 0.5 | 0 | 94 | 60 - 146% | PASS | 17 | 30 | PASS |
| Fluorene | Total | 0.411 | 1 | 0.001 | 0.005 | µg/L | 0.5 | 0 | 82 | 58 - 131% | PASS | 8 | 30 | PASS |
| Indeno[1,2,3-cd]pyrene | Total | 0.48 | 1 | 0.001 | 0.005 | µg/L | 0.5 | 0 | 96 | 50 - 151% | PASS | 0 | 30 | PASS |
| Naphthalene | Total | 0.364 | 1 | 0.001 | 0.005 | µg/L | 0.5 | 0 | 73 | 41 - 126% | PASS | 4 | 30 | PASS |
| Perylene | Total | 0.465 | 1 | 0.001 | 0.005 | µg/L | 0.5 | 0 | 93 | 48 - 141% | PASS | 0 | 30 | PASS |
| Phenanthrene | Total | 0.449 | 1 | 0.001 | 0.005 | µg/L | 0.5 | 0 | 90 | 67 - 127% | PASS | 6 | 30 | PASS |
| Pyrene | Total | 0.457 | 1 | 0.001 | 0.005 | µg/L | 0.5 | 0 | 91 | 54 - 156% | PASS | 21 | 30 | PASS |

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- 17

PHYSIS

TENTATIVELY

IDENTIFIED COMPOUNDS

ENVIRONMENTAL LABORATORIES, INC.

Innovative Solutions for Nature

Sample ID: 101200

| RT | Area Pct | Concentration (ng/L) | Library/ID | Cas Number | Match Qual |
|---------|----------|----------------------|----------------------------------|------------|------------|
| 32.2424 | 4.1577 | 1111 | Anthracene-D10- | 1719-06-8 | 97 |
| 29.2445 | 4.3259 | 1156 | Benzoic acid, 2-ethylhexyl ester | 5444-75-7 | 99 |

Concentration estimated using the response for Anthracene-d10

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- 5
- 6
- 7
- 8
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- 11
- 12
- 13
- 14
- 15
- 16
- 17

Sample ID: 101201

| RT | Area Pct | Concentration (ng/L) | Library/ID | Cas Number | Match Qual |
|---------|----------|----------------------|--|-------------|------------|
| 32.2515 | 5.5334 | 1111 | Anthracene-D10- | 1719-06-8 | 96 |
| 29.2489 | 6.8308 | 1372 | Benzoic acid, 2-ethylhexyl ester | 5444-75-7 | 98 |
| 17.4363 | 0.7385 | 148 | Pentanoic acid, 2,2,4-trimethyl-3-hydroxy-, isobutyl ester | 244074-78-0 | 91 |

Concentration estimated using the response for Anthracene-d10

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Sample ID: 101202

| RT | Area Pct | Concentration (ng/L) | Library/ID | Cas Number | Match Qual |
|---------|----------|----------------------|--|-------------|------------|
| 32.2421 | 5.1040 | 1111 | Anthracene-D10- | 1719-06-8 | 96 |
| 29.2443 | 6.1636 | 1342 | Benzoic acid, 2-ethylhexyl ester | 5444-75-7 | 98 |
| 17.4333 | 0.5012 | 109 | Pentanoic acid, 2,2,4-trimethyl-3-hydroxy-, isobutyl ester | 244074-78-0 | 91 |

Concentration estimated using the response for Anthracene-d10

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Sample ID: Lab Blank B1_40010

| RT | Area Pct | Concentration (ng/L) | Library/ID | Cas Number | Match Qual |
|---------|----------|----------------------|----------------------------------|------------|------------|
| 32.2422 | 7.6805 | 1111 | Anthracene-D10- | 1719-06-8 | 97 |
| 29.2428 | 9.2850 | 1343 | Benzoic acid, 2-ethylhexyl ester | 5444-75-7 | 99 |

Concentration estimated using the response for Anthracene-d10

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PERFORMANCE CHAIN OF CUSTODY

TERRA ENVIRONMENTAL LABORATORIES, INC. AURA

Innovative Solutions for Nature

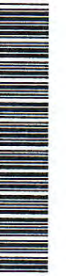
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Monrovia, CA (Suite 100)

750 Royal Oaks Drive Suite 100
Monrovia, CA 91016
Phone: 626-386-1100

Chain of Custody Record



Environment Testing

| | | | | | | | | | |
|--|----------|--|-------------------------------------|---|---|-----------------------------------|----------------------------|----------------------------|----------------------------|
| Client Information (Sub Contract Lab) | | Sampler: | Lab PM: | Carrier Tracking No(s): | COC No: | | | | |
| Shipping/Receiving | | Phone: | Arada Rachelle | | 380-27012-1 | | | | |
| Company: Physics Environmental Laboratories | | E-Mail: Rachelle.Arada@et.eurofins.com | | State of Origin: | Page: 1 of 1 | | | | |
| Address: 1904 Wright Circle, | | Due Date Requested: | Accreditations Required (see note): | | Job #: | | | | |
| City: Anaheim | | 11/15/2022 | State - Hawaii | | 380-26568-1 | | | | |
| State Zip: CA, 92806 | | TAT Requested (days): | Analysis Requested | | | | | | |
| Phone: | | | | | | | | | |
| Email: | | | | | | | | | |
| Project Name: RED-HILL | | Project #: | | | | | | | |
| Site: Honolulu BWS Sites | | SSOW#: | | | | | | | |
| Sample Identification - Client ID (Lab ID) | | Sample Date | Sample Time | Sample Type (C=Comp, G=grab) | Matrix (Metals, Semimetals, Organics, PCBs) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | Total Number of containers | Special Instructions/Note: |
| AIEA GULCH WELLS PUMP 1 (380-26568-1) | 10/31/22 | 10:24 | Hawaiian | Water | Water | X | X | 2 | See Attached Instructions |
| AIEA WELLS PUMPS 1&2 (260) (380-26568-2) | 10/31/22 | 10:03 | Hawaiian | Water | Water | X | X | 2 | See Attached Instructions |
| AIEA GULCH WELLS PUMP 2 (380-26568-3) | 10/31/22 | 10:38 | Hawaiian | Water | Water | X | X | 2 | See Attached Instructions |
| <p>Note: Since laboratory accreditations are subject to change, Eurofins Eaton Analytical, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Eaton Analytical, LLC laboratory or other institutions will be provided. Any changes to accreditation status should be brought to Eurofins Eaton Analytical, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Eaton Analytical, LLC.</p> | | | | | | | | | |
| <p>Possible Hazard Identification</p> <p>Unconfirmed</p> <p>Deliverable Requested: I, II, III, IV, Other (Specify)</p> <p>Primary Deliverable Rank: 2</p> <p>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</p> <p><input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months</p> | | | | | | | | | |
| Empty Kit Relinquished by: | | Date: | Time: | | Method of Shipment: | | | | |
| Relinquished by: <i>[Signature]</i> | | Date/Time: 11/15/22 | 1316 | | Company: <i>[Signature]</i> | | | | |
| Relinquished by: <i>[Signature]</i> | | Date/Time: 11/15/22 | 1316 | | Company: <i>[Signature]</i> | | | | |
| Custody Seats Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No | | Custody Seal No.: | | Cooler Temperature(s) °C and Other Remarks: | | | | | |

ICOC No:
380-27012

Containers
Count 6 Container Type Amber Glass 1 liter - Sodium Thiosulfate

Preservative
Sodium Thiosulfate

Subcontract Method Instructions

| <u>Sample IDs</u> | <u>Method</u> | <u>Method Description</u> | <u>Method Comments</u> |
|-------------------|---------------|--|------------------------------------|
| 1, 2, 3 | SUBCONTRACT | SUB (625 PAH Physis LL (EAL) + TICs)/ 625 PAH Physis LL (EAL) + TICs | Palo Rojo PAH Fraction List + TICs |



Project Iteration ID: 1407003-332
 Client Name: Eurofins Eaton Analytical
 Project Name: RED-HILL Project # 38001111 Job # 380-26568-1
 COC Page Number: 3 of 3
 Bottle Label Color: NA

Sample Receipt Summary

Receiving Info

1. Initials Received By: [Signature]
2. Date Received: 11/2/22
3. Time Received: 1316
4. Client Name: Eurofins
5. Carrier Information: (Please circle)
 - Client
 - UPS
 - Area Fast
 - DRS
 - FedEx
 - GSO/GLS
 - Ontrac
 - PAMS
 - PHYSIS Driver:
 - i. Start Time: _____
 - ii. End Time: _____
 - iii. Total Mileage: _____
 - iv. Number of Pickups: _____
6. Container Information: (Please put the # of containers or circle none)
 - Cooler
 - Styrofoam Cooler
 - Boxes
 - None
 - Carboy(s)
 - Carboy Trash Can(s)
 - Carboy Cap(s)
 - Other _____
7. What type of ice was used: (Please circle any that apply)
 - Wet Ice
 - Blue Ice
 - Dry Ice
 - Water
 - None
8. Randomly Selected Samples Temperature (°C): 1.3 Used I/R Thermometer # 1-2

Inspection Info

1. Initials Inspected By: [Signature]

Sample Integrity Upon Receipt:

1. COC(s) included and completely filled out..... Yes / No
2. All sample containers arrived intact..... Yes / No
3. All samples listed on COC(s) are present..... Yes / No
4. Information on containers consistent with information on COC(s)..... Yes / No
5. Correct containers and volume for all analyses indicated..... Yes / No
6. All samples received within method holding time..... Yes / No
7. Correct preservation used for all analyses indicated..... Yes / No
8. Name of sampler included on COC(s)..... Yes / No

Notes:

Monrovia, CA (Suite 100)

750 Royal Oaks Drive Suite 100
 Monrovia, CA 91016
 Phone: 626-386-1100

Chain of Custody Record



Environment Testing
 America

| Client Information | | Sampler: BAILEY | | Lab PM: Arada, Rachele | | Carrier Tracking No(s): | | COC No: 380-9761-2757.1 | | | | | | | | | |
|--|--|--|-------------|---|--|--|---|-------------------------------------|-------------------------------------|---|-------------------------------------|---|--|----------------------------|--|--|--|
| Client Contact: Dr. Ron Fenstemacher | | Phone: 1-808-748-5840 | | E-Mail: Rachele.Arada@et.eurofinsus.com | | State of Origin: | | Page: Page 1 of 3 | | | | | | | | | |
| Company: City & County of Honolulu | | PWSID: | | Analysis Requested | | | | | | Job #: | | | | | | | |
| Address: 630 South Beretania Street Chemistry Lab | | Due Date Requested: | | Field Filtered Sample (Yes or No) <input type="checkbox"/> Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> SUBCONTRACT - 625 PAH Physis LL (EAL) + TICs <input type="checkbox"/> SUBCONTRACT - 8015 Gas (Purgeable) LL (EAL) <input type="checkbox"/> SUBCONTRACT - 8015 Diesel LL (EAL) and Motor Oil <input type="checkbox"/> 525.2_PREC - (MOD) 525plus Plus TICs <input type="checkbox"/> SUBCONTRACT - 8015 Gas (Purgeable) LL (EAL) <input type="checkbox"/> | | | | | | TAT Requested (days): | | Total Number of Containers: | | Preservation Codes: | | | |
| City: Honolulu | | Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No | | | | | | | | A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify) | | | | | | | |
| State, Zip: HI, 96843 | | PO #: C20525101 exp 05312023 | | | | | | | | Special Instructions/Note: | | | | | | | |
| Phone: 808-748-5091(Tel) | | WO #: | | | | | | | | | | | | | | | |
| Email: RFENSTEMACHER@hbws.org | | Project #: 38001111 | | | | | | | | | | | | | | | |
| Project Name: RED-HILL/HBWS Sites Event Desc: RUSH Weekly Red Hill | | SSOW#: | | | | | | | | | | | | | | | |
| Site: Hawaii | | | | | | | | | | | | | | | | | |
| Sample Identification | | Sample Date | Sample Time | Sample Type (C=Comp, G=grab) | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | | Perform MS/MSD (Yes or No) | | Total Number of Containers | | Special Instructions/Note: | | | | | |
| AIEA GULCH WELLS PUMP 1 | | Oct 31, 2022 | 1024 | G | Water | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | COOLER 1of2 (630A) 2.3-2.2° GEL ICE - FROZEN FEDEX 7703 6111 1381 | | | | | |
| AIEA GULCH WELLS PUMP 2 | | | | | Water | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | |
| AIEA WELLS PUMPS 1&2 (260) | | | | | Water | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | |
| HALAWA SHAFT | | | | | Water | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | |
| HALAWA WELLS UNITS 1&2 | | | | | Water | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | |
| MOANALUA WELLS | | | | | Water | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | |
| AIEA GULCH WELLS PUMP 1 | | | | | Water | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | |
| AIEA GULCH WELLS PUMP 2 | | | | | Water | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | |
| AIEA WELLS PUMPS 1&2 (260) | | Oct 31, 2022 | 1003 | G | Water | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | | |
| HALAWA SHAFT | | | | | Water | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | |
| HALAWA WELLS UNITS 1&2 | | | | | Water | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | |
| Possible Hazard Identification | | | | | | Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) | | | | | | | | | | | |
| <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 | | | | | | <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months | | | | | | | | | | | |
| Deliverable Requested: I, II, III, IV, Other (specify) | | | | | | Special Instructions/QC Requirements: | | | | | | | | | | | |
| Empty Kit Relinquished by: | | | Date: | | Time: | | Method of Shipment: FEDEX 7703 6111 1381 | | | | | | | | | | |
| Relinquished by: BAILEY | | Date/Time: Oct 31, 2022 1400 | | Company: HBWS | | Received by: G. RETNER | | Date/Time: 11/01/2022 10:00 | | Company: EEA | | | | | | | |
| Relinquished by: | | Date/Time: | | Company: | | Received by: | | Date/Time: | | Company: | | | | | | | |
| Relinquished by: | | Date/Time: | | Company: | | Received by: | | Date/Time: | | Company: | | | | | | | |
| Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No | | Custody Seal No.: | | Cooler Temperature(s) °C and Other Remarks: (751A) 5.3° - 5.1° GEL - FROZEN | | | | | | | | | | | | | |



380-26568 COC



Chain of Custody Record

| | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|---|--|--|--|--|--|
| Client Information | | Sampler: BAILEY | | Lab PM: Arada, Rachele | | Carrier Tracking No(s): | | COC No: 380-9761-2757.2 | | | | | |
| Client Contact: Dr. Ron Fenstemacher | | Phone: 1-808-748-5840 | | E-Mail: Rachele.Arada@et.eurofins.com | | State of Origin: | | Page: Page 2 of 3 | | | | | |
| Company: City & County of Honolulu | | PWSID: | | Analysis Requested | | | | | | Job #: | | | |
| Address: 630 South Beretania Street Chemistry Lab | | Due Date Requested: | | | | | | | | Preservation Codes: | | | |
| City: Honolulu | | TAT Requested (days): | | Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) | | SUBCONTRACT - 625 PAH Physis LL (EAL) + TICs SUBCONTRACT - 8015 Gas (Purgeable) LL (EAL) SUBCONTRACT - 8015 Diesel LL (EAL) and Motor Oil 525.2_PREC - (MOD) 525plus Plus TICs SUBCONTRACT - 8015 Gas (Purgeable) LL (EAL) | | Total Number of containers | | A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA | | M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify) | |
| State, Zip: HI, 96843 | | Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No | | | | | | | | Project #: 38001111 | | Other: | |
| Phone: 808-748-5091(Tel) | | PO #: C20525101 exp 05312023 | | | | | | | | Project Name: RED-HILL/HBWS Sites Event Desc: RUSH Weekly Red Hill | | Special Instructions/Note: | |
| Email: RFENSTEMACHER@hbws.org | | WO #: | | | | | | | | SSOW#: | | Site: Hawaii | |
| Project Name: RED-HILL/HBWS Sites Event Desc: RUSH Weekly Red Hill | | SSOW#: | | | | | | | | Site: Hawaii | | | |
| Sample Identification | | Sample Date | | Sample Time | | Sample Type (C=comp, G=grab) | | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) | | Preservation Code: | | Special Instructions/Note: | |
| MOANALUA WELLS | | | | | | | | Water | | X | | COOLER 10F2 (630A) 2.3°-2.2° GEL ICE-FROZEN FED Ex 7703 6111 1381 | |
| AIEA GULCH WELLS PUMP 1 | | | | | | | | Water | | | | | |
| AIEA GULCH WELLS PUMP 2 | | | | | | | | Water | | | | | |
| AIEA WELLS PUMPS 1&2 (260) | | | | | | | | Water | | | | COOLER 20F2 (751A) 5.3°-5.1° GEL ICE-FROZEN FED Ex 7703 6110 8400 | |
| HALAWA SHAFT | | | | | | | | Water | | | | | |
| HALAWA WELLS UNITS 1&2 | | | | | | | | Water | | | | | |
| MOANALUA WELLS | | | | | | | | Water | | | | | |
| AIEA GULCH WELLS PUMP 1 | | | | | | | | Water | | | | | |
| AIEA GULCH WELLS PUMP 2 | | 06b.31.2022 | | 1038 | | G | | Water | | X X X X X | | | |
| AIEA WELLS PUMPS 1&2 (260) | | | | | | | | Water | | | | | |
| HALAWA SHAFT | | | | | | | | Water | | | | | |
| Possible Hazard Identification | | | | | | Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) | | | | | | | |
| <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 | | | | | | <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months | | | | | | | |
| Deliverable Requested: I, II, III, IV, Other (specify) | | | | | | Special Instructions/QC Requirements: | | | | | | | |
| Empty Kit Relinquished by: | | Date: | | Time: | | Method of Shipment: | | FED Ex 7703 6111 1381 | | | | | |
| Relinquished by: BAILEY | | Date/Time: 06b.31.2022 1400 | | Company: HBWS | | Received by: G. PEITNER | | Date/Time: 11/01/2022 10:00 | | Company: EPA | | | |
| Relinquished by: | | Date/Time: | | Company: | | Received by: | | Date/Time: | | Company: | | | |
| Relinquished by: | | Date/Time: | | Company: | | Received by: | | Date/Time: | | Company: | | | |
| Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No | | Custody Seal No.: | | Cooler Temperature(s) °C and Other Remarks: (751A) 5.3°-5.1° GEL-FROZEN | | | | | | | | | |

Chain of Custody Record

| | | | | | | | | | | |
|--|--------------------|--------------------|--|--|---|--|------------------------------------|--|--|--|
| Client Information | | | | Sampler: BAILEY | Lab PM: Arada, Rachele | Carrier Tracking No(s): | COC No: 380-9761-2757.3 | | | |
| Client Contact: Dr. Ron Fenstemacher | | | | Phone: 1-808-748-5840 | E-Mail: Rachele.Arada@et.eurofinsus.com | State of Origin: | Page: Page 3 of 3 | | | |
| Company: City & County of Honolulu | | | | PWSID: | Analysis Requested | | | Job #: | | |
| Address: 630 South Beretania Street Chemistry Lab | | | | Due Date Requested: | Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) SUBCONTRACT - 625 PAH Physis LL (EAL) + TICs SUBCONTRACT - 8015 Gas (Purgeable) LL (EAL) SUBCONTRACT - 8015 Diesel LL (EAL) and Motor Oil 525-2_PREC - (MOD) 525plus Plus TICs SUBCONTRACT - 8015 Gas (Purgeable) LL (EAL) | Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Y - Trizma Z - other (specify) | | | | |
| City: Honolulu | | | | TAT Requested (days): | | | | | | |
| State, Zip: HI, 96843 | | | | Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No | | | | | | |
| Phone: 808-748-5091(Tel) | | | | PO #: C20525101 exp 05312023 | | | | | | |
| Email: RFENSTEMACHER@hbws.org | | | | WO #: | | | | | | |
| Project Name: RED-HILL/HBWS Sites Event Desc: RUSH Weekly Red Hill | | | | Project #: 38001111 | Total Number of Containers Special Instructions/Note: | | | | | |
| Site: Hawaii | | | | SSOW#: | | | | | | |
| Sample Identification | Sample Date | Sample Time | Sample Type (C=Comp, G=grab) BT=Tissue, A=Air | Matrix (W=water, S=solid, O=waste/oil) | | | | COOLER 10F2 (630A) 2.3°-2.2° GEL ICE - FROZEN FED EX 7703 6111 1361 COOLER 20F2 (751A) 5.3°-5.1° GEL ICE - FROZEN FED EX 7703 6110 5400 | | |
| Preservation Code: | | | | | | | | | | |
| HALAWA WELLS UNITS 1&2 | | | Water | | | | | | | |
| MOANALUA WELLS | | | Water | | | | | | | |
| TB AIEA GULCH WELLS PUMP1 | Oct 31, 2022 | 1024 | Water | | | | | | | |
| TB AIEA GULCH WELLS PUMP2 | Oct 31, 2022 | 1038 | Water | | | | | | | |
| TB AIEA WELLS PUMPS 1&2 (260) | Oct 31, 2022 | 1003 | Water | | | | | | | |
| TB HALAWA SHAFT | | | Water | | | | | | | |
| TB HALAWA WELLS UNITS 1&2 | | | Water | | | | | | | |
| TB MOANALUA WELLS | | | Water | | | | | | | |
| Possible Hazard Identification | | | | | Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) | | | | | |
| <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 | | | | | <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months | | | | | |
| Deliverable Requested: I, II, III, IV, Other (specify) | | | | | Special Instructions/QC Requirements: | | | | | |
| Empty Kit Relinquished by: | | | Date: | Time: | Method of Shipment: FED EX 7703 6111 1361 | | | | | |
| Relinquished by: BAILEY | | | Date/Time: Oct 31, 2022 1400 | Company: HBWS | Received by: G. PETNER | | Date/Time: 11/01/2022 10:00 | Company: EEA | | |
| Relinquished by: | | | Date/Time: | Company: | Received by: | | Date/Time: | Company: | | |
| Relinquished by: | | | Date/Time: | Company: | Received by: | | Date/Time: | Company: | | |
| Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No | | Custody Seal No.: | | | Cooler Temperature(s) and Other Remarks: (751A) 5.3°-5.1° GEL-FROZEN | | | | | |

Shipping Order Form - Bottle Order



Environment Testing
America



Monrovia, CA (Suite 100)
750 Royal Oaks Drive Suite 100
Monrovia, CA 91016
Phone (626) 386-1100

Shipping Order ID: 9761

Ship Via: FedEx
When To Ship: 10/31/2022

Due On: 10/31/2022 11:59:00PM
Due After: 10/31/2022 12:00:00 AM

Ship To Information

Project Manager: *Rachelle Arada*
Tel: (626) 386-1106 Em: *Rachelle.Arada@et.eurofinsus.com*
Company Name: *City & County of Honolulu*
Attention: *Erwin Kawata*
Address 1: *630 South Beretania Street*
Address 2: *Public Service Bldg. Room 308*
Address 3:
City: *Honolulu*
State: *HI*
Zip: *96843*
Phone #: *+1-808-748-5841*
Project Ref: *RED-HILL*
Event Desc: *RUSH Weekly Red Hill*

Notes to Bottle/Shipping Department

Pack with Gel Ice.

Please pack as one cooler per site.

Label the cooler under the left hand handle with the ID of the samples that are in the cooler (If more than 1 cooler is used per 1 sample ID label cooler with "sample ID x of y").

Pack by sample ID on the botte labels (with one full set of tests per sample ID).

Send only medium to large coolers.

Shipping Method: Individual sample per cooler (affixed TALS labels)

- | | |
|--|---|
| <input checked="" type="checkbox"/> Ready to Fill | <input type="checkbox"/> Return Shipment Labels |
| <input checked="" type="checkbox"/> Preprinted COC | <input type="checkbox"/> Prepaid Return |
| <input type="checkbox"/> <input type="text" value="1"/> Number of COC Copies | Monrovia, CA (Suite 100) |
| <input type="checkbox"/> Seals on Bottle | <input type="checkbox"/> Short Hold Times |
| <input type="checkbox"/> Seals on Coolers | <input checked="" type="checkbox"/> Temperature Control |
| <input type="checkbox"/> Priority | <input type="checkbox"/> Rush |

Please notify your PM immediately if an error is found in shipment. When returning samples, please return all provided QC samples.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17

Please notify your PM immediately if an error is found in shipment. When returning samples, please return all provided QC samples.

Bottle Order Information

Bottle Order: RUSH RED-HILL WEEKLY
 Bottle Order #: 2757
 Request From Client: 7/20/2022
 Date Order Posted: 7/20/2022 11:12:54AM
 Order Status: Ready To Process
 Prepared By: Davis Haley
 Deliver By Date: 10/31/2022 11:59:00PM
 Lab Project Number: 38001111
 PWSID:

Order Completion Information

Creator: Davis Haley
 Filled by:
 Sent Date:
 Sent Via:
 Tracking #:

| Sets | Bottles/Set | Qty | Bottle Type Description | Preservative | Method | Matrix | Sample Type | Comments | Lot # |
|------|-------------|-----|--|--------------------------------------|--|--------|-------------|----------|-------|
| 6 | 2 | 12 | Amber Glass 1 liter - Sodium Thiosulfate | Sodium Thiosulfate | SUBCONTRACT - 625 PAH Physis LL (EAL) + TICs | Water | Normal | 625 PAH | |
| 6 | 4 | 24 | Voa Vial 40ml - SodiumThio w/HCl-dropper | Sodium Thiosulfate | SUBCONTRACT - 8015 Gas (Purgeable) LL (EAL) | Water | Normal | | |
| 6 | 2 | 12 | Amber Glass 1 L - NaThiosulfate 8mL HCL | Sodium Thiosulfate/Hydrochloric Acid | SUBCONTRACT - 8015 Diesel LL (EAL) and Motor Oil | Water | Normal | | |
| 6 | 2 | 12 | Amber Glass 1 Liter- Sodium Sulfite/HCl | Sodium Sulfite w/HCl | 525.2_PREC - (MOD) 525plus Plus TICs | Water | Normal | | |
| 6 | 2 | 12 | VOA Vial 40mL - NaThiosulfate/HCL | Sodium Thiosulfate/Hydrochloric Acid | SUBCONTRACT - 8015 Gas (Purgeable) LL (EAL) | Water | Trip Blank | | |

| Total Bottle Summary | | |
|--|--------------------------------------|--------------|
| Bottle Type Description | Preservative | Bottle Count |
| Amber Glass 1 L - NaThiosulfate 8mL HCL | Sodium Thiosulfate/Hydrochloric Acid | 12 |
| Amber Glass 1 liter - Sodium Thiosulfate | Sodium Thiosulfate | 12 |
| Amber Glass 1 Liter- Sodium Sulfite/HCl | Sodium Sulfite w/HCl | 12 |
| VOA Vial 40mL - NaThiosulfate/HCL | Sodium Thiosulfate/Hydrochloric Acid | 12 |
| Voa Vial 40ml - SodiumThio w/HCl-dropper | Sodium Thiosulfate | 24 |
| Total Bottles: | | 72 |

Please notify your PM immediately if an error is found in shipment. When returning samples, please return all provided QC samples.

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-26568-1

Login Number: 26568

List Number: 1

Creator: Elyas, Matthew

List Source: Eurofins Eaton Monrovia

| Question | Answer | Comment |
|--|--------|---------|
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and 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 | |
| Samples do not require splitting or compositing. | True | |
| Container provided by EEA | True | |