

ANALYTICAL REPORT

PREPARED FOR

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JOB DESCRIPTION

RED-HILL
Weekly
RUSH Weekly Red Hill

JOB NUMBER

380-147405-1

Eurofins Eaton Analytical Pomona

Job Notes

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

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

Compliance Statement

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

Authorization



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Definitions/Glossary

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

Job ID: 380-147405-1
SDG: Weekly

Qualifiers

GC/MS Semi VOA

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

GC/MS Semi VOA TICs

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

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
^3+	Reporting Limit Check Standard is outside acceptance limits, high biased
S1+	Surrogate recovery exceeds control limits, high biased.

Glossary

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

Case Narrative

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

Job ID: 380-147405-1

Job ID: 380-147405-1

Eurofins Eaton Analytical Pomona

Job Narrative 380-147405-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 4/24/2025 9:34 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.9°C and 2.1°C.

GC/MS Semi VOA

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

Gasoline Range Organics

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

Diesel Range Organics

Method 8015B_DRO_LL_CS: The method reporting limit check (MRL) for preparation batch 570-563894 and analytical batch 570-567004 recovered outside control limits for the following analytes: C10-C28. These analytes were biased high in the MRL and were not detected in the associated samples; therefore, the data have been reported.

Method 8015B_DRO_LL_CS: The surrogate recovery for the blank associated with preparation batch 570-563894 and analytical batch 570-567004 was outside the upper control limits.

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

Detection Summary

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

Job ID: 380-147405-1
SDG: Weekly

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

Lab Sample ID: 380-147405-1

☐ No Detections.

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

Lab Sample ID: 380-147405-2

☐ No Detections.

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

Lab Sample ID: 380-147405-3

☐ No Detections.

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

Lab Sample ID: 380-147405-4

☐ No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-147405-1
SDG: Weekly

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

Lab Sample ID: 380-147405-1

Date Collected: 04/21/25 10:32

Matrix: Drinking Water

Date Received: 04/24/25 09:34

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 13:21	1
2,4'-DDD	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 13:21	1
2,4'-DDE	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 13:21	1
2,4'-DDT	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 13:21	1
2,4-Dinitrotoluene	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 13:21	1
2,6-Dinitrotoluene	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 13:21	1
2-Methylnaphthalene	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 13:21	1
4,4'-DDD	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 13:21	1
4,4'-DDE	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 13:21	1
4,4'-DDT	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 13:21	1
Acenaphthene	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 13:21	1
Acenaphthylene	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 13:21	1
Acetochlor	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 13:21	1
Alachlor	<0.049		0.049	ug/L		04/28/25 09:22	04/29/25 13:21	1
alpha-BHC	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 13:21	1
alpha-Chlordane	<0.049		0.049	ug/L		04/28/25 09:22	04/29/25 13:21	1
Anthracene	<0.020		0.020	ug/L		04/28/25 09:22	04/29/25 13:21	1
Atrazine	<0.049		0.049	ug/L		04/28/25 09:22	04/29/25 13:21	1
Benz(a)anthracene	<0.049		0.049	ug/L		04/28/25 09:22	04/29/25 13:21	1
Benzo[a]pyrene	<0.020		0.020	ug/L		04/28/25 09:22	04/29/25 13:21	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		04/28/25 09:22	04/29/25 13:21	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		04/28/25 09:22	04/29/25 13:21	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		04/28/25 09:22	04/29/25 13:21	1
beta-BHC	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 13:21	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		04/28/25 09:22	04/29/25 13:21	1
Bromacil	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 13:21	1
Butachlor	<0.049		0.049	ug/L		04/28/25 09:22	04/29/25 13:21	1
Butylbenzylphthalate	<0.49		0.49	ug/L		04/28/25 09:22	04/29/25 13:21	1
Chlorobenzilate	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 13:21	1
Chloroneb	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 13:21	1
Chlorothalonil (Draconil, Bravo)	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 13:21	1
Chlorpyrifos	<0.049		0.049	ug/L		04/28/25 09:22	04/29/25 13:21	1
Chrysene	<0.020		0.020	ug/L		04/28/25 09:22	04/29/25 13:21	1
delta-BHC	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 13:21	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		04/28/25 09:22	04/29/25 13:21	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		04/28/25 09:22	04/29/25 13:21	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		04/28/25 09:22	04/29/25 13:21	1
Dieldrin	<0.0098		0.0098	ug/L		04/28/25 09:22	04/29/25 13:21	1
Diethylphthalate	<0.49		0.49	ug/L		04/28/25 09:22	04/29/25 13:21	1
Dimethylphthalate	<0.49		0.49	ug/L		04/28/25 09:22	04/29/25 13:21	1
Di-n-butyl phthalate	<0.98		0.98	ug/L		04/28/25 09:22	04/29/25 13:21	1
Di-n-octyl phthalate	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 13:21	1
Endosulfan I (Alpha)	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 13:21	1
Endosulfan II (Beta)	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 13:21	1
Endosulfan sulfate	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 13:21	1
Endrin	<0.0098		0.0098	ug/L		04/28/25 09:22	04/29/25 13:21	1
Endrin aldehyde	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 13:21	1
EPTC	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 13:21	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-147405-1
SDG: Weekly

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

Lab Sample ID: 380-147405-1

Date Collected: 04/21/25 10:32

Matrix: Drinking Water

Date Received: 04/24/25 09:34

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 13:21	1
Fluorene	<0.049		0.049	ug/L		04/28/25 09:22	04/29/25 13:21	1
gamma-Chlordane	<0.049		0.049	ug/L		04/28/25 09:22	04/29/25 13:21	1
Heptachlor	<0.0098		0.0098	ug/L		04/28/25 09:22	04/29/25 13:21	1
Heptachlor epoxide (isomer B)	<0.0098		0.0098	ug/L		04/28/25 09:22	04/29/25 13:21	1
Hexachlorobenzene	<0.049		0.049	ug/L		04/28/25 09:22	04/29/25 13:21	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		04/28/25 09:22	04/29/25 13:21	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		04/28/25 09:22	04/29/25 13:21	1
Isophorone	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 13:21	1
Lindane	<0.0098		0.0098	ug/L		04/28/25 09:22	04/29/25 13:21	1
Malathion	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 13:21	1
Methoxychlor	<0.049		0.049	ug/L		04/28/25 09:22	04/29/25 13:21	1
Metolachlor	<0.049		0.049	ug/L		04/28/25 09:22	04/29/25 13:21	1
Molinate	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 13:21	1
Naphthalene	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 13:21	1
Parathion	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 13:21	1
Pendimethalin (Penoxaline)	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 13:21	1
Phenanthrene	<0.039		0.039	ug/L		04/28/25 09:22	04/29/25 13:21	1
Propachlor	<0.049		0.049	ug/L		04/28/25 09:22	04/29/25 13:21	1
Pyrene	<0.049		0.049	ug/L		04/28/25 09:22	04/29/25 13:21	1
Simazine	<0.049		0.049	ug/L		04/28/25 09:22	04/29/25 13:21	1
Terbacil	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 13:21	1
Terbutylazine	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 13:21	1
Thiobencarb	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 13:21	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		04/28/25 09:22	04/29/25 13:21	1
trans-Nonachlor	<0.049		0.049	ug/L		04/28/25 09:22	04/29/25 13:21	1
Trifluralin	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 13:21	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	04/28/25 09:22	04/29/25 13:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	96		70 - 130	04/28/25 09:22	04/29/25 13:21	1
Perylene-d12	93		70 - 130	04/28/25 09:22	04/29/25 13:21	1
Triphenylphosphate	106		70 - 130	04/28/25 09:22	04/29/25 13:21	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.19		0.19	ug/L		04/25/25 16:28	05/07/25 13:24	1
2-Methylnaphthalene	<0.19		0.19	ug/L		04/25/25 16:28	05/07/25 13:24	1
Acenaphthene	<0.19		0.19	ug/L		04/25/25 16:28	05/07/25 13:24	1
Acenaphthylene	<0.19		0.19	ug/L		04/25/25 16:28	05/07/25 13:24	1
Anthracene	<0.19		0.19	ug/L		04/25/25 16:28	05/07/25 13:24	1
Benzo[a]anthracene	<0.19		0.19	ug/L		04/25/25 16:28	05/07/25 13:24	1
Benzo[a]pyrene	<0.19		0.19	ug/L		04/25/25 16:28	05/07/25 13:24	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		04/25/25 16:28	05/07/25 13:24	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		04/25/25 16:28	05/07/25 13:24	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		04/25/25 16:28	05/07/25 13:24	1
Chrysene	<0.19		0.19	ug/L		04/25/25 16:28	05/07/25 13:24	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-147405-1
SDG: Weekly

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

Lab Sample ID: 380-147405-1

Date Collected: 04/21/25 10:32

Matrix: Drinking Water

Date Received: 04/24/25 09:34

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	<0.19		0.19	ug/L		04/25/25 16:28	05/07/25 13:24	1
Fluoranthene	<0.19		0.19	ug/L		04/25/25 16:28	05/07/25 13:24	1
Fluorene	<0.19		0.19	ug/L		04/25/25 16:28	05/07/25 13:24	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		04/25/25 16:28	05/07/25 13:24	1
Naphthalene	<0.19		0.19	ug/L		04/25/25 16:28	05/07/25 13:24	1
Phenanthrene	<0.19		0.19	ug/L		04/25/25 16:28	05/07/25 13:24	1
Pyrene	<0.19		0.19	ug/L		04/25/25 16:28	05/07/25 13:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	111		28 - 127	04/25/25 16:28	05/07/25 13:24	1
2-Fluorobiphenyl (Surr)	91		31 - 120	04/25/25 16:28	05/07/25 13:24	1
2-Fluorophenol (Surr)	56		17 - 120	04/25/25 16:28	05/07/25 13:24	1
Nitrobenzene-d5 (Surr)	93		27 - 120	04/25/25 16:28	05/07/25 13:24	1
Phenol-d6 (Surr)	34		10 - 120	04/25/25 16:28	05/07/25 13:24	1
p-Terphenyl-d14 (Surr)	93		45 - 120	04/25/25 16:28	05/07/25 13:24	1

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

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
3-Hydroxy-3-methyl-2-butanone	8.3	T J N	ug/L		1.93	115-22-0	04/25/25 16:28	05/07/25 14:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	80		33 - 139	04/25/25 16:28	05/07/25 14:39	1
2-Fluorobiphenyl (Surr)	83		33 - 126	04/25/25 16:28	05/07/25 14:39	1
2-Fluorophenol (Surr)	48		12 - 120	04/25/25 16:28	05/07/25 14:39	1
Nitrobenzene-d5 (Surr)	105		36 - 120	04/25/25 16:28	05/07/25 14:39	1
Phenol-d6 (Surr)	33		10 - 120	04/25/25 16:28	05/07/25 14:39	1
p-Terphenyl-d14 (Surr)	85		47 - 131	04/25/25 16:28	05/07/25 14:39	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	<10		10	ug/L			04/28/25 22:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		38 - 134		04/28/25 22:21	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<26		26	ug/L		04/28/25 14:57	05/05/25 20:42	1
Motor Oil Range Organics [C24-C36]	<26		26	ug/L		04/28/25 14:57	05/05/25 20:42	1
C8-C18	<26		26	ug/L		04/28/25 14:57	05/05/25 20:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	120		60 - 130	04/28/25 14:57	05/05/25 20:42	1

Client Sample Results

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

Job ID: 380-147405-1
SDG: Weekly

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

Lab Sample ID: 380-147405-2

Date Collected: 04/21/25 10:32

Matrix: Drinking Water

Date Received: 04/24/25 09:34

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	<0.098		10	ug/L			04/28/25 19:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		38 - 134				04/28/25 19:38	1

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

Lab Sample ID: 380-147405-3

Date Collected: 04/21/25 10:55

Matrix: Drinking Water

Date Received: 04/24/25 09:34

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 13:01	1
2,4'-DDD	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 13:01	1
2,4'-DDE	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 13:01	1
2,4'-DDT	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 13:01	1
2,4-Dinitrotoluene	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 13:01	1
2,6-Dinitrotoluene	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 13:01	1
2-Methylnaphthalene	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 13:01	1
4,4'-DDD	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 13:01	1
4,4'-DDE	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 13:01	1
4,4'-DDT	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 13:01	1
Acenaphthene	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 13:01	1
Acenaphthylene	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 13:01	1
Acetochlor	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 13:01	1
Alachlor	<0.049		0.049	ug/L		04/28/25 09:22	04/29/25 13:01	1
alpha-BHC	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 13:01	1
alpha-Chlordane	<0.049		0.049	ug/L		04/28/25 09:22	04/29/25 13:01	1
Anthracene	<0.020		0.020	ug/L		04/28/25 09:22	04/29/25 13:01	1
Atrazine	<0.049		0.049	ug/L		04/28/25 09:22	04/29/25 13:01	1
Benz(a)anthracene	<0.049		0.049	ug/L		04/28/25 09:22	04/29/25 13:01	1
Benzo[a]pyrene	<0.020		0.020	ug/L		04/28/25 09:22	04/29/25 13:01	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		04/28/25 09:22	04/29/25 13:01	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		04/28/25 09:22	04/29/25 13:01	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		04/28/25 09:22	04/29/25 13:01	1
beta-BHC	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 13:01	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		04/28/25 09:22	04/29/25 13:01	1
Bromacil	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 13:01	1
Butachlor	<0.049		0.049	ug/L		04/28/25 09:22	04/29/25 13:01	1
Butylbenzylphthalate	<0.49		0.49	ug/L		04/28/25 09:22	04/29/25 13:01	1
Chlorobenzilate	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 13:01	1
Chloroneb	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 13:01	1
Chlorothalonil (Draconil, Bravo)	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 13:01	1
Chlorpyrifos	<0.049		0.049	ug/L		04/28/25 09:22	04/29/25 13:01	1
Chrysene	<0.020		0.020	ug/L		04/28/25 09:22	04/29/25 13:01	1
delta-BHC	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 13:01	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		04/28/25 09:22	04/29/25 13:01	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		04/28/25 09:22	04/29/25 13:01	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		04/28/25 09:22	04/29/25 13:01	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-147405-1
SDG: Weekly

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

Lab Sample ID: 380-147405-3

Date Collected: 04/21/25 10:55

Matrix: Drinking Water

Date Received: 04/24/25 09:34

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dieldrin	<0.0098		0.0098	ug/L		04/28/25 09:22	04/29/25 13:01	1
Diethylphthalate	<0.49		0.49	ug/L		04/28/25 09:22	04/29/25 13:01	1
Dimethylphthalate	<0.49		0.49	ug/L		04/28/25 09:22	04/29/25 13:01	1
Di-n-butyl phthalate	<0.98		0.98	ug/L		04/28/25 09:22	04/29/25 13:01	1
Di-n-octyl phthalate	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 13:01	1
Endosulfan I (Alpha)	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 13:01	1
Endosulfan II (Beta)	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 13:01	1
Endosulfan sulfate	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 13:01	1
Endrin	<0.0098		0.0098	ug/L		04/28/25 09:22	04/29/25 13:01	1
Endrin aldehyde	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 13:01	1
EPTC	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 13:01	1
Fluoranthene	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 13:01	1
Fluorene	<0.049		0.049	ug/L		04/28/25 09:22	04/29/25 13:01	1
gamma-Chlordane	<0.049		0.049	ug/L		04/28/25 09:22	04/29/25 13:01	1
Heptachlor	<0.0098		0.0098	ug/L		04/28/25 09:22	04/29/25 13:01	1
Heptachlor epoxide (isomer B)	<0.0098		0.0098	ug/L		04/28/25 09:22	04/29/25 13:01	1
Hexachlorobenzene	<0.049		0.049	ug/L		04/28/25 09:22	04/29/25 13:01	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		04/28/25 09:22	04/29/25 13:01	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		04/28/25 09:22	04/29/25 13:01	1
Isophorone	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 13:01	1
Lindane	<0.0098		0.0098	ug/L		04/28/25 09:22	04/29/25 13:01	1
Malathion	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 13:01	1
Methoxychlor	<0.049		0.049	ug/L		04/28/25 09:22	04/29/25 13:01	1
Metolachlor	<0.049		0.049	ug/L		04/28/25 09:22	04/29/25 13:01	1
Molinate	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 13:01	1
Naphthalene	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 13:01	1
Parathion	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 13:01	1
Pendimethalin (Penoxaline)	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 13:01	1
Phenanthrene	<0.039		0.039	ug/L		04/28/25 09:22	04/29/25 13:01	1
Propachlor	<0.049		0.049	ug/L		04/28/25 09:22	04/29/25 13:01	1
Pyrene	<0.049		0.049	ug/L		04/28/25 09:22	04/29/25 13:01	1
Simazine	<0.049		0.049	ug/L		04/28/25 09:22	04/29/25 13:01	1
Terbacil	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 13:01	1
Terbutylazine	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 13:01	1
Thiobencarb	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 13:01	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		04/28/25 09:22	04/29/25 13:01	1
trans-Nonachlor	<0.049		0.049	ug/L		04/28/25 09:22	04/29/25 13:01	1
Trifluralin	<0.098		0.098	ug/L		04/28/25 09:22	04/29/25 13:01	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	04/28/25 09:22	04/29/25 13:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	96		70 - 130	04/28/25 09:22	04/29/25 13:01	1
Perylene-d12	78		70 - 130	04/28/25 09:22	04/29/25 13:01	1
Triphenylphosphate	106		70 - 130	04/28/25 09:22	04/29/25 13:01	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-147405-1
SDG: Weekly

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

Lab Sample ID: 380-147405-3

Date Collected: 04/21/25 10:55

Matrix: Drinking Water

Date Received: 04/24/25 09:34

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.19		0.19	ug/L		04/25/25 16:28	05/07/25 13:46	1
2-Methylnaphthalene	<0.19		0.19	ug/L		04/25/25 16:28	05/07/25 13:46	1
Acenaphthene	<0.19		0.19	ug/L		04/25/25 16:28	05/07/25 13:46	1
Acenaphthylene	<0.19		0.19	ug/L		04/25/25 16:28	05/07/25 13:46	1
Anthracene	<0.19		0.19	ug/L		04/25/25 16:28	05/07/25 13:46	1
Benzo[a]anthracene	<0.19		0.19	ug/L		04/25/25 16:28	05/07/25 13:46	1
Benzo[a]pyrene	<0.19		0.19	ug/L		04/25/25 16:28	05/07/25 13:46	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		04/25/25 16:28	05/07/25 13:46	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		04/25/25 16:28	05/07/25 13:46	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		04/25/25 16:28	05/07/25 13:46	1
Chrysene	<0.19		0.19	ug/L		04/25/25 16:28	05/07/25 13:46	1
Dibenz(a,h)anthracene	<0.19		0.19	ug/L		04/25/25 16:28	05/07/25 13:46	1
Fluoranthene	<0.19		0.19	ug/L		04/25/25 16:28	05/07/25 13:46	1
Fluorene	<0.19		0.19	ug/L		04/25/25 16:28	05/07/25 13:46	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		04/25/25 16:28	05/07/25 13:46	1
Naphthalene	<0.19		0.19	ug/L		04/25/25 16:28	05/07/25 13:46	1
Phenanthrene	<0.19		0.19	ug/L		04/25/25 16:28	05/07/25 13:46	1
Pyrene	<0.19		0.19	ug/L		04/25/25 16:28	05/07/25 13:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	99		28 - 127	04/25/25 16:28	05/07/25 13:46	1
2-Fluorobiphenyl (Surr)	87		31 - 120	04/25/25 16:28	05/07/25 13:46	1
2-Fluorophenol (Surr)	51		17 - 120	04/25/25 16:28	05/07/25 13:46	1
Nitrobenzene-d5 (Surr)	87		27 - 120	04/25/25 16:28	05/07/25 13:46	1
Phenol-d6 (Surr)	32		10 - 120	04/25/25 16:28	05/07/25 13:46	1
p-Terphenyl-d14 (Surr)	86		45 - 120	04/25/25 16:28	05/07/25 13:46	1

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

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	04/25/25 16:28	05/07/25 15:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	64		33 - 139	04/25/25 16:28	05/07/25 15:02	1
2-Fluorobiphenyl (Surr)	71		33 - 126	04/25/25 16:28	05/07/25 15:02	1
2-Fluorophenol (Surr)	42		12 - 120	04/25/25 16:28	05/07/25 15:02	1
Nitrobenzene-d5 (Surr)	91		36 - 120	04/25/25 16:28	05/07/25 15:02	1
Phenol-d6 (Surr)	29		10 - 120	04/25/25 16:28	05/07/25 15:02	1
p-Terphenyl-d14 (Surr)	70		47 - 131	04/25/25 16:28	05/07/25 15:02	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	<10		10	ug/L			04/28/25 22:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		38 - 134		04/28/25 22:46	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<26		26	ug/L		04/28/25 14:57	05/05/25 21:03	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-147405-1
SDG: Weekly

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

Lab Sample ID: 380-147405-3

Date Collected: 04/21/25 10:55

Matrix: Drinking Water

Date Received: 04/24/25 09:34

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Motor Oil Range Organics [C24-C36]	<26		26	ug/L		04/28/25 14:57	05/05/25 21:03	1
C8-C18	<26		26	ug/L		04/28/25 14:57	05/05/25 21:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	115		60 - 130			04/28/25 14:57	05/05/25 21:03	1

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

Lab Sample ID: 380-147405-4

Date Collected: 04/21/25 10:55

Matrix: Water

Date Received: 04/24/25 09:34

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	<10		10	ug/L			04/28/25 19:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		38 - 134				04/28/25 19:13	1

Action Limit Summary

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

Job ID: 380-147405-1
SDG: Weekly

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

Lab Sample ID: 380-147405-1

Compliance Check

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

Analyte	Result	Qualifier	Unit	EPAMCL	RL	Method	Prep Type
				Limit			
Alachlor	<0.049		ug/L	2	0.049	525.2	Total/NA
Atrazine	<0.049		ug/L	3	0.049	525.2	Total/NA
Benzo[a]pyrene	<0.020		ug/L	0.2	0.020	525.2	Total/NA
Bis(2-ethylhexyl) phthalate	<0.59		ug/L	6	0.59	525.2	Total/NA
Di(2-ethylhexyl)adipate	<0.59		ug/L	400	0.59	525.2	Total/NA
Endrin	<0.0098		ug/L	2	0.0098	525.2	Total/NA
Heptachlor	<0.0098		ug/L	0.4	0.0098	525.2	Total/NA
Heptachlor epoxide (isomer B)	<0.0098		ug/L	0.2	0.0098	525.2	Total/NA
Hexachlorobenzene	<0.049		ug/L	1	0.049	525.2	Total/NA
Hexachlorocyclopentadiene	<0.049		ug/L	50	0.049	525.2	Total/NA
Lindane	<0.0098		ug/L	0.2	0.0098	525.2	Total/NA
Methoxychlor	<0.049		ug/L	40	0.049	525.2	Total/NA
Simazine	<0.049		ug/L	4	0.049	525.2	Total/NA
Benzo[a]pyrene	<0.19		ug/L	0.2	0.19	625.1 SIM	Total/NA

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

Lab Sample ID: 380-147405-3

Compliance Check

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

Analyte	Result	Qualifier	Unit	EPAMCL	RL	Method	Prep Type
				Limit			
Alachlor	<0.049		ug/L	2	0.049	525.2	Total/NA
Atrazine	<0.049		ug/L	3	0.049	525.2	Total/NA
Benzo[a]pyrene	<0.020		ug/L	0.2	0.020	525.2	Total/NA
Bis(2-ethylhexyl) phthalate	<0.59		ug/L	6	0.59	525.2	Total/NA
Di(2-ethylhexyl)adipate	<0.59		ug/L	400	0.59	525.2	Total/NA
Endrin	<0.0098		ug/L	2	0.0098	525.2	Total/NA
Heptachlor	<0.0098		ug/L	0.4	0.0098	525.2	Total/NA
Heptachlor epoxide (isomer B)	<0.0098		ug/L	0.2	0.0098	525.2	Total/NA
Hexachlorobenzene	<0.049		ug/L	1	0.049	525.2	Total/NA
Hexachlorocyclopentadiene	<0.049		ug/L	50	0.049	525.2	Total/NA
Lindane	<0.0098		ug/L	0.2	0.0098	525.2	Total/NA
Methoxychlor	<0.049		ug/L	40	0.049	525.2	Total/NA
Simazine	<0.049		ug/L	4	0.049	525.2	Total/NA
Benzo[a]pyrene	<0.19		ug/L	0.2	0.19	625.1 SIM	Total/NA

Surrogate Summary

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

Job ID: 380-147405-1
SDG: Weekly

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)	PRY (70-130)	TPP (70-130)
380-147405-1	AIEA GULCH WELLS PUMP 1 (	96	93	106
380-147405-1 DU	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	96	89	109
380-147405-3	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	96	78	106
380-147405-3 MS	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	97	97	110

Surrogate Legend

2NMX = 2-Nitro-m-xylene

PRY = Perylene-d12

TPP = Triphenylphosphate

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		2NMX (70-130)	PRY (70-130)	TPP (70-130)
LCS 380-149604/23-A	Lab Control Sample	95	95	108
LCSD 380-149604/24-A	Lab Control Sample Dup	96	97	106
MB 380-149604/21-A	Method Blank	96	88	108
MRL 380-149604/22-A	Lab Control Sample	95	88	108

Surrogate Legend

2NMX = 2-Nitro-m-xylene

PRY = Perylene-d12

TPP = Triphenylphosphate

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

Matrix: Drinking Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (33-139)	FBP (33-126)	2FP (12-120)	NBZ (36-120)	PHL6 (10-120)	TPHd14 (47-131)
380-147405-1	AIEA GULCH WELLS PUMP 1 (	80	83	48	105	33	85
380-147405-3	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	64	71	42	91	29	70

Surrogate Legend

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

FBP = 2-Fluorobiphenyl (Surr)

2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

PHL6 = Phenol-d6 (Surr)

TPHd14 = p-Terphenyl-d14 (Surr)

Surrogate Summary

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

Job ID: 380-147405-1
SDG: Weekly

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (33-139)	FBP (33-126)	2FP (12-120)	NBZ (36-120)	PHL6 (10-120)	TPHd14 (47-131)
MB 570-563059/1-A	Method Blank	78	81	47	105	33	85

Surrogate Legend

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

FBP = 2-Fluorobiphenyl (Surr)

2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

PHL6 = Phenol-d6 (Surr)

TPHd14 = p-Terphenyl-d14 (Surr)

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

Matrix: Drinking Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (28-127)	FBP (31-120)	2FP (17-120)	NBZ (27-120)	PHL6 (10-120)	TPHd14 (45-120)
380-147405-1	AIEA GULCH WELLS PUMP 1 (	111	91	56	93	34	93
380-147405-3	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	99	87	51	87	32	86

Surrogate Legend

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

FBP = 2-Fluorobiphenyl (Surr)

2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

PHL6 = Phenol-d6 (Surr)

TPHd14 = p-Terphenyl-d14 (Surr)

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

Matrix: Drinking Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (38-134)	
380-147405-1	AIEA GULCH WELLS PUMP 1 (	85	
380-147405-2	TB: AIEA GULCH WELLS PUMF 1 (331-201-TP071)	86	
380-147405-3	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	84	

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (38-134)	
380-147405-4	TB: AIEA GULCH WELLS PUMF	86	
380-147415-B-3 MS	Matrix Spike	92	
380-147415-B-3 MSD	Matrix Spike Duplicate	90	
LCS 570-563681/4	Lab Control Sample	89	
LCSD 570-563681/5	Lab Control Sample Dup	87	

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Surrogate Summary

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

Job ID: 380-147405-1
SDG: Weekly

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (38-134)
MB 570-563681/6	Method Blank	81
MRL 570-563681/3	Lab Control Sample	85

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

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

Matrix: Drinking Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	OTCSN1 (60-130)
380-147405-1	AIEA GULCH WELLS PUMP 1 (	120
380-147405-3	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	115

Surrogate Legend

OTCSN = n-Octacosane (Surr)

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	OTCSN1 (60-130)
380-147415-C-3-C MS	Matrix Spike	124
380-147415-C-3-D MSD	Matrix Spike Duplicate	113
LCS 570-563894/2-B	Lab Control Sample	120
LCSD 570-563894/3-B	Lab Control Sample Dup	124
MB 570-563894/1-B	Method Blank	134 S1+
MRL 570-563894/4-B	Lab Control Sample	126

Surrogate Legend

OTCSN = n-Octacosane (Surr)

QC Sample Results

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

Job ID: 380-147405-1
SDG: Weekly

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

Lab Sample ID: MB 380-149604/21-A

Matrix: Water

Analysis Batch: 149781

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 149604

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.097		0.097	ug/L		04/28/25 09:22	04/29/25 12:40	1
2,4'-DDD	<0.097		0.097	ug/L		04/28/25 09:22	04/29/25 12:40	1
2,4'-DDE	<0.097		0.097	ug/L		04/28/25 09:22	04/29/25 12:40	1
2,4'-DDT	<0.097		0.097	ug/L		04/28/25 09:22	04/29/25 12:40	1
2,4-Dinitrotoluene	<0.097		0.097	ug/L		04/28/25 09:22	04/29/25 12:40	1
2,6-Dinitrotoluene	<0.097		0.097	ug/L		04/28/25 09:22	04/29/25 12:40	1
2-Methylnaphthalene	<0.097		0.097	ug/L		04/28/25 09:22	04/29/25 12:40	1
4,4'-DDD	<0.097		0.097	ug/L		04/28/25 09:22	04/29/25 12:40	1
4,4'-DDE	<0.097		0.097	ug/L		04/28/25 09:22	04/29/25 12:40	1
4,4'-DDT	<0.097		0.097	ug/L		04/28/25 09:22	04/29/25 12:40	1
Acenaphthene	<0.097		0.097	ug/L		04/28/25 09:22	04/29/25 12:40	1
Acenaphthylene	<0.097		0.097	ug/L		04/28/25 09:22	04/29/25 12:40	1
Acetochlor	<0.097		0.097	ug/L		04/28/25 09:22	04/29/25 12:40	1
Alachlor	<0.048		0.048	ug/L		04/28/25 09:22	04/29/25 12:40	1
alpha-BHC	<0.097		0.097	ug/L		04/28/25 09:22	04/29/25 12:40	1
alpha-Chlordane	<0.048		0.048	ug/L		04/28/25 09:22	04/29/25 12:40	1
Anthracene	<0.019		0.019	ug/L		04/28/25 09:22	04/29/25 12:40	1
Atrazine	<0.048		0.048	ug/L		04/28/25 09:22	04/29/25 12:40	1
Benz(a)anthracene	<0.048		0.048	ug/L		04/28/25 09:22	04/29/25 12:40	1
Benzo[a]pyrene	<0.019		0.019	ug/L		04/28/25 09:22	04/29/25 12:40	1
Benzo[b]fluoranthene	<0.019		0.019	ug/L		04/28/25 09:22	04/29/25 12:40	1
Benzo[g,h,i]perylene	<0.048		0.048	ug/L		04/28/25 09:22	04/29/25 12:40	1
Benzo[k]fluoranthene	<0.019		0.019	ug/L		04/28/25 09:22	04/29/25 12:40	1
beta-BHC	<0.097		0.097	ug/L		04/28/25 09:22	04/29/25 12:40	1
Bis(2-ethylhexyl) phthalate	<0.58		0.58	ug/L		04/28/25 09:22	04/29/25 12:40	1
Bromacil	<0.097		0.097	ug/L		04/28/25 09:22	04/29/25 12:40	1
Butachlor	<0.048		0.048	ug/L		04/28/25 09:22	04/29/25 12:40	1
Butylbenzylphthalate	<0.48		0.48	ug/L		04/28/25 09:22	04/29/25 12:40	1
Chlorobenzilate	<0.097		0.097	ug/L		04/28/25 09:22	04/29/25 12:40	1
Chloroneb	<0.097		0.097	ug/L		04/28/25 09:22	04/29/25 12:40	1
Chlorothalonil (Draconil, Bravo)	<0.097		0.097	ug/L		04/28/25 09:22	04/29/25 12:40	1
Chlorpyrifos	<0.048		0.048	ug/L		04/28/25 09:22	04/29/25 12:40	1
Chrysene	<0.019		0.019	ug/L		04/28/25 09:22	04/29/25 12:40	1
delta-BHC	<0.097		0.097	ug/L		04/28/25 09:22	04/29/25 12:40	1
Di(2-ethylhexyl)adipate	<0.58		0.58	ug/L		04/28/25 09:22	04/29/25 12:40	1
Dibenz(a,h)anthracene	<0.048		0.048	ug/L		04/28/25 09:22	04/29/25 12:40	1
Diclorvos (DDVP)	<0.048		0.048	ug/L		04/28/25 09:22	04/29/25 12:40	1
Dieldrin	<0.0097		0.0097	ug/L		04/28/25 09:22	04/29/25 12:40	1
Diethylphthalate	<0.48		0.48	ug/L		04/28/25 09:22	04/29/25 12:40	1
Dimethylphthalate	<0.48		0.48	ug/L		04/28/25 09:22	04/29/25 12:40	1
Di-n-butyl phthalate	<0.97		0.97	ug/L		04/28/25 09:22	04/29/25 12:40	1
Di-n-octyl phthalate	<0.097		0.097	ug/L		04/28/25 09:22	04/29/25 12:40	1
Endosulfan I (Alpha)	<0.097		0.097	ug/L		04/28/25 09:22	04/29/25 12:40	1
Endosulfan II (Beta)	<0.097		0.097	ug/L		04/28/25 09:22	04/29/25 12:40	1
Endosulfan sulfate	<0.097		0.097	ug/L		04/28/25 09:22	04/29/25 12:40	1
Endrin	<0.0097		0.0097	ug/L		04/28/25 09:22	04/29/25 12:40	1
Endrin aldehyde	<0.097		0.097	ug/L		04/28/25 09:22	04/29/25 12:40	1
EPTC	<0.097		0.097	ug/L		04/28/25 09:22	04/29/25 12:40	1

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QC Sample Results

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

Job ID: 380-147405-1
SDG: Weekly

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

Lab Sample ID: MB 380-149604/21-A

Matrix: Water

Analysis Batch: 149781

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 149604

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.097		0.097	ug/L		04/28/25 09:22	04/29/25 12:40	1
Fluorene	<0.048		0.048	ug/L		04/28/25 09:22	04/29/25 12:40	1
gamma-Chlordane	<0.048		0.048	ug/L		04/28/25 09:22	04/29/25 12:40	1
Heptachlor	<0.0097		0.0097	ug/L		04/28/25 09:22	04/29/25 12:40	1
Heptachlor epoxide (isomer B)	<0.0097		0.0097	ug/L		04/28/25 09:22	04/29/25 12:40	1
Hexachlorobenzene	<0.048		0.048	ug/L		04/28/25 09:22	04/29/25 12:40	1
Hexachlorocyclopentadiene	<0.048		0.048	ug/L		04/28/25 09:22	04/29/25 12:40	1
Indeno[1,2,3-cd]pyrene	<0.048		0.048	ug/L		04/28/25 09:22	04/29/25 12:40	1
Isophorone	<0.097		0.097	ug/L		04/28/25 09:22	04/29/25 12:40	1
Lindane	<0.0097		0.0097	ug/L		04/28/25 09:22	04/29/25 12:40	1
Malathion	<0.097		0.097	ug/L		04/28/25 09:22	04/29/25 12:40	1
Methoxychlor	<0.048		0.048	ug/L		04/28/25 09:22	04/29/25 12:40	1
Metolachlor	<0.048		0.048	ug/L		04/28/25 09:22	04/29/25 12:40	1
Molinate	<0.097		0.097	ug/L		04/28/25 09:22	04/29/25 12:40	1
Naphthalene	<0.097		0.097	ug/L		04/28/25 09:22	04/29/25 12:40	1
Parathion	<0.097		0.097	ug/L		04/28/25 09:22	04/29/25 12:40	1
Pendimethalin (Penoxaline)	<0.097		0.097	ug/L		04/28/25 09:22	04/29/25 12:40	1
Phenanthrene	<0.039		0.039	ug/L		04/28/25 09:22	04/29/25 12:40	1
Propachlor	<0.048		0.048	ug/L		04/28/25 09:22	04/29/25 12:40	1
Pyrene	<0.048		0.048	ug/L		04/28/25 09:22	04/29/25 12:40	1
Simazine	<0.048		0.048	ug/L		04/28/25 09:22	04/29/25 12:40	1
Terbacil	<0.097		0.097	ug/L		04/28/25 09:22	04/29/25 12:40	1
Terbutylazine	<0.097		0.097	ug/L		04/28/25 09:22	04/29/25 12:40	1
Thiobencarb	<0.097		0.097	ug/L		04/28/25 09:22	04/29/25 12:40	1
Total Permethrin (mixed isomers)	<0.19		0.19	ug/L		04/28/25 09:22	04/29/25 12:40	1
trans-Nonachlor	<0.048		0.048	ug/L		04/28/25 09:22	04/29/25 12:40	1
Trifluralin	<0.097		0.097	ug/L		04/28/25 09:22	04/29/25 12:40	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
9-Octadecenamide, (Z)-	2.40	T J N	ug/L		8.04	301-02-0	04/28/25 09:22	04/29/25 12:40	1
Unknown	0.766	T J	ug/L		10.63	N/A	04/28/25 09:22	04/29/25 12:40	1
Unknown	0.544	T J	ug/L		11.52	N/A	04/28/25 09:22	04/29/25 12:40	1
Unknown	0.954	T J	ug/L		15.82	N/A	04/28/25 09:22	04/29/25 12:40	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	96		70 - 130	04/28/25 09:22	04/29/25 12:40	1
Perylene-d12	88		70 - 130	04/28/25 09:22	04/29/25 12:40	1
Triphenylphosphate	108		70 - 130	04/28/25 09:22	04/29/25 12:40	1

Lab Sample ID: LCS 380-149604/23-A

Matrix: Water

Analysis Batch: 149781

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 149604

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	1.95	1.95		ug/L		100	70 - 130
2,4'-DDD	1.95	2.07		ug/L		106	70 - 130
2,4'-DDE	1.95	2.17		ug/L		112	70 - 130
2,4'-DDT	1.95	2.01		ug/L		103	70 - 130

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QC Sample Results

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

Job ID: 380-147405-1
SDG: Weekly

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

Lab Sample ID: LCS 380-149604/23-A

Matrix: Water

Analysis Batch: 149781

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 149604

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4-Dinitrotoluene	1.95	1.95		ug/L		100	70 - 130
2,6-Dinitrotoluene	1.95	2.14		ug/L		110	70 - 130
2-Methylnaphthalene	1.95	1.97		ug/L		101	70 - 130
4,4'-DDD	1.95	2.06		ug/L		106	70 - 130
4,4'-DDE	1.95	2.30		ug/L		118	70 - 130
4,4'-DDT	1.95	2.05		ug/L		105	70 - 130
Acenaphthene	1.95	2.00		ug/L		103	70 - 130
Acenaphthylene	1.95	2.02		ug/L		104	70 - 130
Acetochlor	1.95	2.12		ug/L		109	70 - 130
Alachlor	1.95	2.19		ug/L		112	70 - 130
alpha-BHC	1.95	2.00		ug/L		102	70 - 130
alpha-Chlordane	1.95	2.27		ug/L		117	70 - 130
Anthracene	1.95	2.07		ug/L		106	70 - 130
Atrazine	1.95	2.33		ug/L		120	70 - 130
Benz(a)anthracene	1.95	2.02		ug/L		104	70 - 130
Benzo[a]pyrene	1.95	2.01		ug/L		103	70 - 130
Benzo[b]fluoranthene	1.95	2.33		ug/L		120	70 - 130
Benzo[g,h,i]perylene	1.95	2.05		ug/L		105	70 - 130
Benzo[k]fluoranthene	1.95	2.00		ug/L		103	70 - 130
beta-BHC	1.95	2.09		ug/L		107	70 - 130
Bis(2-ethylhexyl) phthalate	1.95	1.93		ug/L		99	70 - 130
Bromacil	1.95	1.95		ug/L		100	70 - 130
Butachlor	1.95	2.16		ug/L		111	70 - 130
Butylbenzylphthalate	1.95	2.18		ug/L		112	70 - 130
Chlorobenzilate	1.95	2.13		ug/L		109	70 - 130
Chloroneb	1.95	2.03		ug/L		104	70 - 130
Chlorothalonil (Draconil, Bravo)	1.95	2.41		ug/L		124	70 - 130
Chlorpyrifos	1.95	2.17		ug/L		112	70 - 130
Chrysene	1.95	2.00		ug/L		103	70 - 130
delta-BHC	1.95	1.99		ug/L		102	70 - 130
Di(2-ethylhexyl)adipate	1.95	2.17		ug/L		112	70 - 130
Dibenz(a,h)anthracene	1.95	2.13		ug/L		110	70 - 130
Diclorvos (DDVP)	1.95	1.99		ug/L		102	70 - 130
Dieldrin	1.95	2.17		ug/L		112	70 - 130
Diethylphthalate	1.95	2.15		ug/L		110	70 - 130
Dimethylphthalate	1.95	2.09		ug/L		107	70 - 130
Di-n-butyl phthalate	3.89	4.16		ug/L		107	70 - 130
Di-n-octyl phthalate	1.95	1.86		ug/L		96	70 - 130
Endosulfan I (Alpha)	1.95	2.00		ug/L		103	70 - 130
Endosulfan II (Beta)	1.95	1.94		ug/L		100	70 - 130
Endosulfan sulfate	1.95	2.27		ug/L		117	70 - 130
Endrin	1.95	2.29		ug/L		118	70 - 130
Endrin aldehyde	1.95	2.24		ug/L		115	60 - 130
EPTC	1.95	2.10		ug/L		108	70 - 130
Fluoranthene	1.95	2.16		ug/L		111	70 - 130
Fluorene	1.95	2.10		ug/L		108	70 - 130
gamma-Chlordane	1.95	2.23		ug/L		115	70 - 130
Heptachlor	1.95	2.32		ug/L		119	70 - 130
Heptachlor epoxide (isomer B)	1.95	2.26		ug/L		116	70 - 130

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QC Sample Results

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

Job ID: 380-147405-1
SDG: Weekly

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

Lab Sample ID: LCS 380-149604/23-A

Matrix: Water

Analysis Batch: 149781

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 149604

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Hexachlorobenzene	1.95	2.22		ug/L		114	70 - 130
Hexachlorocyclopentadiene	1.95	2.16		ug/L		111	70 - 130
Indeno[1,2,3-cd]pyrene	1.95	2.14		ug/L		110	70 - 130
Isophorone	1.95	1.91		ug/L		98	70 - 130
Lindane	1.95	2.12		ug/L		109	70 - 130
Malathion	1.95	2.23		ug/L		114	70 - 130
Methoxychlor	1.95	2.13		ug/L		110	70 - 130
Metolachlor	1.95	2.05		ug/L		105	70 - 130
Molinate	1.95	2.15		ug/L		111	70 - 130
Naphthalene	1.95	1.89		ug/L		97	70 - 130
Parathion	1.95	2.29		ug/L		118	70 - 130
Pendimethalin (Penoxaline)	1.95	2.18		ug/L		112	70 - 130
Phenanthrene	1.95	1.95		ug/L		100	70 - 130
Propachlor	1.95	2.15		ug/L		110	70 - 130
Pyrene	1.95	2.23		ug/L		115	70 - 130
Simazine	1.95	2.19		ug/L		113	70 - 130
Terbacil	1.95	2.15		ug/L		111	70 - 130
Terbutylazine	1.95	2.29		ug/L		117	70 - 130
Thiobencarb	1.95	2.21		ug/L		113	70 - 130
trans-Nonachlor	1.95	2.19		ug/L		112	70 - 130
Trifluralin	1.95	2.11		ug/L		108	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Nitro-m-xylene	95		70 - 130
Perylene-d12	95		70 - 130
Triphenylphosphate	108		70 - 130

Lab Sample ID: LCSD 380-149604/24-A

Matrix: Water

Analysis Batch: 149781

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 149604

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	1.94	1.95		ug/L		100	70 - 130	0	20
2,4'-DDD	1.94	2.07		ug/L		106	70 - 130	0	20
2,4'-DDE	1.94	2.18		ug/L		112	70 - 130	0	20
2,4'-DDT	1.94	1.98		ug/L		102	70 - 130	2	20
2,4-Dinitrotoluene	1.94	1.89		ug/L		97	70 - 130	3	20
2,6-Dinitrotoluene	1.94	2.11		ug/L		108	70 - 130	1	20
2-Methylnaphthalene	1.94	2.00		ug/L		103	70 - 130	2	20
4,4'-DDD	1.94	2.09		ug/L		107	70 - 130	1	20
4,4'-DDE	1.94	2.30		ug/L		118	70 - 130	0	20
4,4'-DDT	1.94	2.06		ug/L		106	70 - 130	0	20
Acenaphthene	1.94	1.99		ug/L		102	70 - 130	1	20
Acenaphthylene	1.94	1.97		ug/L		102	70 - 130	2	20
Acetochlor	1.94	2.11		ug/L		108	70 - 130	0	20
Alachlor	1.94	2.15		ug/L		111	70 - 130	2	20
alpha-BHC	1.94	2.02		ug/L		104	70 - 130	1	20
alpha-Chlordane	1.94	2.26		ug/L		116	70 - 130	0	20

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-147405-1
SDG: Weekly

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

Lab Sample ID: LCSD 380-149604/24-A

Matrix: Water

Analysis Batch: 149781

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 149604

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Anthracene	1.94	2.00		ug/L		103	70 - 130	3	20
Atrazine	1.94	2.31		ug/L		119	70 - 130	1	20
Benz(a)anthracene	1.94	2.04		ug/L		105	70 - 130	1	20
Benzo[a]pyrene	1.94	2.02		ug/L		104	70 - 130	1	20
Benzo[b]fluoranthene	1.94	2.41		ug/L		124	70 - 130	3	20
Benzo[g,h,i]perylene	1.94	2.10		ug/L		108	70 - 130	3	20
Benzo[k]fluoranthene	1.94	2.02		ug/L		104	70 - 130	1	20
beta-BHC	1.94	2.05		ug/L		106	70 - 130	2	20
Bis(2-ethylhexyl) phthalate	1.94	1.96		ug/L		101	70 - 130	2	20
Bromacil	1.94	1.97		ug/L		101	70 - 130	1	20
Butachlor	1.94	2.13		ug/L		110	70 - 130	1	20
Butylbenzylphthalate	1.94	2.16		ug/L		111	70 - 130	1	20
Chlorobenzilate	1.94	2.11		ug/L		108	70 - 130	1	20
Chloroneb	1.94	2.06		ug/L		106	70 - 130	1	20
Chlorothalonil (Draconil, Bravo)	1.94	2.37		ug/L		122	70 - 130	2	20
Chlorpyrifos	1.94	2.17		ug/L		111	70 - 130	0	20
Chrysene	1.94	2.05		ug/L		106	70 - 130	2	20
delta-BHC	1.94	1.99		ug/L		102	70 - 130	0	20
Di(2-ethylhexyl)adipate	1.94	2.15		ug/L		111	70 - 130	1	20
Dibenz(a,h)anthracene	1.94	2.17		ug/L		111	70 - 130	2	20
Diclorvos (DDVP)	1.94	1.99		ug/L		103	70 - 130	0	20
Dieldrin	1.94	2.13		ug/L		110	70 - 130	2	20
Diethylphthalate	1.94	2.16		ug/L		111	70 - 130	0	20
Dimethylphthalate	1.94	2.10		ug/L		108	70 - 130	1	20
Di-n-butyl phthalate	3.89	4.33		ug/L		111	70 - 130	4	20
Di-n-octyl phthalate	1.94	1.96		ug/L		101	70 - 130	5	20
Endosulfan I (Alpha)	1.94	1.97		ug/L		101	70 - 130	2	20
Endosulfan II (Beta)	1.94	1.97		ug/L		101	70 - 130	1	20
Endosulfan sulfate	1.94	2.27		ug/L		117	70 - 130	0	20
Endrin	1.94	2.26		ug/L		116	70 - 130	1	20
Endrin aldehyde	1.94	2.10		ug/L		108	60 - 130	6	20
EPTC	1.94	2.12		ug/L		109	70 - 130	1	20
Fluoranthene	1.94	2.15		ug/L		110	70 - 130	1	20
Fluorene	1.94	2.11		ug/L		109	70 - 130	0	20
gamma-Chlordane	1.94	2.18		ug/L		112	70 - 130	2	20
Heptachlor	1.94	2.35		ug/L		121	70 - 130	1	20
Heptachlor epoxide (isomer B)	1.94	2.24		ug/L		115	70 - 130	1	20
Hexachlorobenzene	1.94	2.19		ug/L		112	70 - 130	2	20
Hexachlorocyclopentadiene	1.94	2.17		ug/L		111	70 - 130	0	20
Indeno[1,2,3-cd]pyrene	1.94	2.13		ug/L		110	70 - 130	0	20
Isophorone	1.94	1.94		ug/L		100	70 - 130	2	20
Lindane	1.94	2.09		ug/L		107	70 - 130	1	20
Malathion	1.94	2.20		ug/L		113	70 - 130	1	20
Methoxychlor	1.94	2.16		ug/L		111	70 - 130	1	20
Metolachlor	1.94	2.00		ug/L		103	70 - 130	2	20
Molinate	1.94	2.17		ug/L		112	70 - 130	1	20
Naphthalene	1.94	1.87		ug/L		96	70 - 130	1	20
Parathion	1.94	2.23		ug/L		115	70 - 130	3	20
Pendimethalin (Penoxaline)	1.94	2.11		ug/L		109	70 - 130	3	20

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-147405-1
SDG: Weekly

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

Lab Sample ID: LCSD 380-149604/24-A

Matrix: Water

Analysis Batch: 149781

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 149604

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenanthrene	1.94	1.93		ug/L		99	70 - 130	1	20
Propachlor	1.94	2.17		ug/L		112	70 - 130	1	20
Pyrene	1.94	2.20		ug/L		113	70 - 130	2	20
Simazine	1.94	2.17		ug/L		112	70 - 130	1	20
Terbacil	1.94	2.07		ug/L		107	70 - 130	4	20
Terbutylazine	1.94	2.30		ug/L		118	70 - 130	0	20
Thiobencarb	1.94	2.19		ug/L		113	70 - 130	1	20
trans-Nonachlor	1.94	2.15		ug/L		111	70 - 130	1	20
Trifluralin	1.94	2.08		ug/L		107	70 - 130	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Nitro-m-xylene	96		70 - 130
Perylene-d12	97		70 - 130
Triphenylphosphate	106		70 - 130

Lab Sample ID: MRL 380-149604/22-A

Matrix: Water

Analysis Batch: 149781

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 149604

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	0.0977	0.112		ug/L		115	50 - 150
2,4'-DDD	0.0977	0.0876	J	ug/L		90	50 - 150
2,4'-DDE	0.0977	0.0977	J	ug/L		100	50 - 150
2,4'-DDT	0.0977	0.109		ug/L		112	50 - 150
2,4-Dinitrotoluene	0.0977	0.103		ug/L		106	50 - 150
2,6-Dinitrotoluene	0.0977	0.118		ug/L		121	50 - 150
2-Methylnaphthalene	0.0977	0.105		ug/L		108	50 - 150
4,4'-DDD	0.0977	0.111		ug/L		113	50 - 150
4,4'-DDE	0.0977	0.104		ug/L		106	50 - 150
4,4'-DDT	0.0977	0.113		ug/L		115	50 - 150
Acenaphthene	0.0977	0.0990		ug/L		101	50 - 150
Acenaphthylene	0.0977	0.0922	J	ug/L		94	50 - 150
Acetochlor	0.0977	0.110		ug/L		112	50 - 150
Alachlor	0.0489	0.0509		ug/L		104	50 - 150
alpha-BHC	0.0977	0.104		ug/L		107	50 - 150
alpha-Chlordane	0.0244	<0.028		ug/L		109	50 - 150
Anthracene	0.0195	0.0203		ug/L		104	50 - 150
Atrazine	0.0489	0.0557		ug/L		114	50 - 150
Benz(a)anthracene	0.0489	0.0544		ug/L		111	50 - 150
Benzo[a]pyrene	0.0195	0.0240		ug/L		123	50 - 150
Benzo[b]fluoranthene	0.0195	0.0211		ug/L		108	50 - 150
Benzo[g,h,i]perylene	0.0489	0.0513		ug/L		105	50 - 150
Benzo[k]fluoranthene	0.0195	0.0231		ug/L		118	50 - 150
beta-BHC	0.0977	0.109		ug/L		112	50 - 150
Bis(2-ethylhexyl) phthalate	0.586	0.590		ug/L		101	50 - 150
Bromacil	0.0977	0.109		ug/L		112	50 - 150
Butachlor	0.0489	0.0588		ug/L		120	50 - 150
Butylbenzylphthalate	0.489	0.549		ug/L		112	50 - 150

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-147405-1
SDG: Weekly

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

Lab Sample ID: MRL 380-149604/22-A

Matrix: Water

Analysis Batch: 149781

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 149604

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chlorobenzilate	0.0977	0.111		ug/L		113	50 - 150
Chloroneb	0.0977	0.102		ug/L		105	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0977	0.101		ug/L		104	50 - 150
Chlorpyrifos	0.0489	0.0498		ug/L		102	50 - 150
Chrysene	0.0195	0.0204		ug/L		104	50 - 150
delta-BHC	0.0977	0.101		ug/L		103	50 - 150
Di(2-ethylhexyl)adipate	0.586	0.654		ug/L		112	50 - 150
Dibenz(a,h)anthracene	0.0489	0.0554		ug/L		113	50 - 150
Diclorvos (DDVP)	0.0489	0.0555		ug/L		114	50 - 150
Dieldrin	0.00977	0.0143		ug/L		146	50 - 150
Diethylphthalate	0.489	0.539		ug/L		110	50 - 150
Dimethylphthalate	0.489	0.512		ug/L		105	50 - 150
Di-n-butyl phthalate	0.489	0.561	J	ug/L		115	49 - 243
Di-n-octyl phthalate	0.0977	0.106		ug/L		109	50 - 150
Endosulfan I (Alpha)	0.0977	0.0999		ug/L		102	50 - 150
Endosulfan II (Beta)	0.0977	0.0987		ug/L		101	50 - 150
Endosulfan sulfate	0.0977	0.100		ug/L		103	50 - 150
Endrin	0.00977	0.0121		ug/L		124	50 - 150
Endrin aldehyde	0.0977	0.113		ug/L		115	50 - 150
EPTC	0.0977	0.101		ug/L		103	50 - 150
Fluoranthene	0.0977	0.0963	J	ug/L		99	50 - 150
Fluorene	0.0489	0.0518		ug/L		106	50 - 150
gamma-Chlordane	0.0244	0.0272	J	ug/L		111	50 - 150
Heptachlor	0.00977	0.0116		ug/L		119	50 - 150
Heptachlor epoxide (isomer B)	0.00977	0.0132		ug/L		135	50 - 150
Hexachlorobenzene	0.0489	0.0504		ug/L		103	50 - 150
Hexachlorocyclopentadiene	0.0489	0.0459	J	ug/L		94	50 - 150
Indeno[1,2,3-cd]pyrene	0.0489	0.0664		ug/L		136	50 - 150
Isophorone	0.0977	0.114		ug/L		116	50 - 150
Lindane	0.00977	0.0133		ug/L		136	50 - 150
Malathion	0.0977	0.105		ug/L		107	50 - 150
Methoxychlor	0.0489	0.0581		ug/L		119	50 - 150
Metolachlor	0.0489	0.0539		ug/L		110	50 - 150
Molinate	0.0977	0.106		ug/L		109	50 - 150
Naphthalene	0.0977	0.0969	J	ug/L		99	50 - 150
Parathion	0.0977	0.0990		ug/L		101	50 - 150
Pendimethalin (Penoxaline)	0.0977	0.102		ug/L		105	50 - 150
Phenanthrene	0.0391	0.0406		ug/L		104	50 - 150
Propachlor	0.0489	0.0540		ug/L		110	50 - 150
Pyrene	0.0489	0.0490		ug/L		100	50 - 150
Simazine	0.0489	0.0513		ug/L		105	50 - 150
Terbacil	0.0977	0.112		ug/L		114	50 - 150
Terbutylazine	0.0977	0.104		ug/L		107	50 - 150
Thiobencarb	0.0977	0.108		ug/L		111	50 - 150
trans-Nonachlor	0.0244	0.0262	J	ug/L		107	50 - 150
Trifluralin	0.0977	0.109		ug/L		111	50 - 150

QC Sample Results

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

Job ID: 380-147405-1
SDG: Weekly

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

Lab Sample ID: MRL 380-149604/22-A

Matrix: Water

Analysis Batch: 149781

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 149604

Surrogate	MRL %Recovery	MRL Qualifier	Limits
2-Nitro-m-xylene	95		70 - 130
Perylene-d12	88		70 - 130
Triphenylphosphate	108		70 - 130

Lab Sample ID: 380-147405-3 MS

Matrix: Drinking Water

Analysis Batch: 149781

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

Prep Type: Total/NA

Prep Batch: 149604

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.098		1.96	1.94		ug/L		99	70 - 130
2,4'-DDD	<0.098		1.96	2.08		ug/L		106	70 - 130
2,4'-DDE	<0.098		1.96	2.16		ug/L		110	70 - 130
2,4'-DDT	<0.098		1.96	2.01		ug/L		102	70 - 130
2,4-Dinitrotoluene	<0.098		1.96	1.97		ug/L		101	70 - 130
2,6-Dinitrotoluene	<0.098		1.96	2.16		ug/L		110	70 - 130
2-Methylnaphthalene	<0.098		1.96	1.98		ug/L		101	70 - 130
4,4'-DDD	<0.098		1.96	2.12		ug/L		108	70 - 130
4,4'-DDE	<0.098		1.96	2.23		ug/L		114	70 - 130
4,4'-DDT	<0.098		1.96	2.05		ug/L		105	70 - 130
Acenaphthene	<0.098		1.96	2.00		ug/L		102	70 - 130
Acenaphthylene	<0.098		1.96	1.97		ug/L		101	70 - 130
Acetochlor	<0.098		1.96	2.17		ug/L		111	70 - 130
Alachlor	<0.049		1.96	2.23		ug/L		114	70 - 130
alpha-BHC	<0.098		1.96	2.04		ug/L		104	70 - 130
alpha-Chlordane	<0.049		1.96	2.33		ug/L		119	70 - 130
Anthracene	<0.020		1.96	1.65		ug/L		84	70 - 130
Atrazine	<0.049		1.96	2.29		ug/L		117	70 - 130
Benz(a)anthracene	<0.049		1.96	1.96		ug/L		100	70 - 130
Benzo[a]pyrene	<0.020		1.96	1.89		ug/L		97	70 - 130
Benzo[b]fluoranthene	<0.020		1.96	2.38		ug/L		121	70 - 130
Benzo[g,h,i]perylene	<0.049		1.96	2.10		ug/L		107	70 - 130
Benzo[k]fluoranthene	<0.020		1.96	1.98		ug/L		101	70 - 130
beta-BHC	<0.098		1.96	2.13		ug/L		109	70 - 130
Bis(2-ethylhexyl) phthalate	<0.59		1.96	1.78		ug/L		91	70 - 130
Bromacil	<0.098		1.96	2.00		ug/L		102	70 - 130
Butachlor	<0.049		1.96	2.19		ug/L		112	70 - 130
Butylbenzylphthalate	<0.49		1.96	2.20		ug/L		112	70 - 130
Chlorobenzilate	<0.098		1.96	2.16		ug/L		110	70 - 130
Chloroneb	<0.098		1.96	2.03		ug/L		104	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.098		1.96	2.46		ug/L		126	70 - 130
Chlorpyrifos	<0.049		1.96	2.21		ug/L		113	70 - 130
Chrysene	<0.020		1.96	2.05		ug/L		105	70 - 130
delta-BHC	<0.098		1.96	2.04		ug/L		104	70 - 130
Di(2-ethylhexyl)adipate	<0.59		1.96	2.02		ug/L		103	70 - 130
Dibenz(a,h)anthracene	<0.049		1.96	2.11		ug/L		108	70 - 130
Diclorvos (DDVP)	<0.049		1.96	1.95		ug/L		100	70 - 130
Dieldrin	<0.0098		1.96	2.23		ug/L		114	70 - 130
Diethylphthalate	<0.49		1.96	2.16		ug/L		110	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-147405-1
SDG: Weekly

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

Lab Sample ID: 380-147405-3 MS

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

Matrix: Drinking Water

Prep Type: Total/NA

Analysis Batch: 149781

Prep Batch: 149604

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Dimethylphthalate	<0.49		1.96	2.08		ug/L		106	70 - 130
Di-n-butyl phthalate	<0.98		3.92	4.26		ug/L		109	70 - 130
Di-n-octyl phthalate	<0.098		1.96	1.67		ug/L		85	70 - 130
Endosulfan I (Alpha)	<0.098		1.96	2.04		ug/L		104	70 - 130
Endosulfan II (Beta)	<0.098		1.96	2.07		ug/L		106	70 - 130
Endosulfan sulfate	<0.098		1.96	2.37		ug/L		121	70 - 130
Endrin	<0.0098		1.96	2.33		ug/L		119	70 - 130
Endrin aldehyde	<0.098		1.96	1.98		ug/L		101	60 - 130
EPTC	<0.098		1.96	2.14		ug/L		109	70 - 130
Fluoranthene	<0.098		1.96	2.13		ug/L		108	70 - 130
Fluorene	<0.049		1.96	2.05		ug/L		105	70 - 130
gamma-Chlordane	<0.049		1.96	2.26		ug/L		115	70 - 130
Heptachlor	<0.0098		1.96	2.40		ug/L		123	70 - 130
Heptachlor epoxide (isomer B)	<0.0098		1.96	2.33		ug/L		119	70 - 130
Hexachlorobenzene	<0.049		1.96	2.15		ug/L		110	70 - 130
Hexachlorocyclopentadiene	<0.049		1.96	2.10		ug/L		107	70 - 130
Indeno[1,2,3-cd]pyrene	<0.049		1.96	2.13		ug/L		109	70 - 130
Isophorone	<0.098		1.96	1.96		ug/L		100	70 - 130
Lindane	<0.0098		1.96	2.16		ug/L		110	70 - 130
Malathion	<0.098		1.96	2.25		ug/L		115	70 - 130
Methoxychlor	<0.049		1.96	2.22		ug/L		113	70 - 130
Metolachlor	<0.049		1.96	2.08		ug/L		106	70 - 130
Molinate	<0.098		1.96	2.16		ug/L		110	70 - 130
Naphthalene	<0.098		1.96	1.89		ug/L		97	70 - 130
Parathion	<0.098		1.96	2.33		ug/L		119	70 - 130
Pendimethalin (Penoxaline)	<0.098		1.96	2.28		ug/L		117	70 - 130
Phenanthrene	<0.039		1.96	1.91		ug/L		97	70 - 130
Propachlor	<0.049		1.96	2.20		ug/L		112	70 - 130
Pyrene	<0.049		1.96	2.19		ug/L		112	70 - 130
Simazine	<0.049		1.96	2.18		ug/L		111	70 - 130
Terbacil	<0.098		1.96	2.16		ug/L		110	70 - 130
Terbutylazine	<0.098		1.96	2.30		ug/L		117	70 - 130
Thiobencarb	<0.098		1.96	2.22		ug/L		113	70 - 130
trans-Nonachlor	<0.049		1.96	2.23		ug/L		114	70 - 130
Trifluralin	<0.098		1.96	2.20		ug/L		112	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Nitro-m-xylene	97		70 - 130
Perylene-d12	97		70 - 130
Triphenylphosphate	110		70 - 130

Lab Sample ID: 380-147405-1 DU

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

Matrix: Drinking Water

Prep Type: Total/NA

Analysis Batch: 149781

Prep Batch: 149604

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

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-147405-1
SDG: Weekly

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

Lab Sample ID: 380-147405-1 DU

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

Matrix: Drinking Water

Prep Type: Total/NA

Analysis Batch: 149781

Prep Batch: 149604

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
2,4'-DDE	<0.098		<0.098		ug/L		NC	20
2,4'-DDT	<0.098		<0.098		ug/L		NC	20
2,4-Dinitrotoluene	<0.098		<0.098		ug/L		NC	20
2,6-Dinitrotoluene	<0.098		<0.098		ug/L		NC	20
2-Methylnaphthalene	<0.098		<0.098		ug/L		NC	20
4,4'-DDD	<0.098		<0.098		ug/L		NC	20
4,4'-DDE	<0.098		<0.098		ug/L		NC	20
4,4'-DDT	<0.098		<0.098		ug/L		NC	20
Acenaphthene	<0.098		<0.098		ug/L		NC	20
Acenaphthylene	<0.098		<0.098		ug/L		NC	20
Acetochlor	<0.098		<0.098		ug/L		NC	20
Alachlor	<0.049		<0.049		ug/L		NC	20
alpha-BHC	<0.098		<0.098		ug/L		NC	20
alpha-Chlordane	<0.049		<0.049		ug/L		NC	20
Anthracene	<0.020		<0.020		ug/L		NC	20
Atrazine	<0.049		<0.049		ug/L		NC	20
Benz(a)anthracene	<0.049		<0.049		ug/L		NC	20
Benzo[a]pyrene	<0.020		<0.020		ug/L		NC	20
Benzo[b]fluoranthene	<0.020		<0.020		ug/L		NC	20
Benzo[g,h,i]perylene	<0.049		<0.049		ug/L		NC	20
Benzo[k]fluoranthene	<0.020		<0.020		ug/L		NC	20
beta-BHC	<0.098		<0.098		ug/L		NC	20
Bis(2-ethylhexyl) phthalate	<0.59		<0.59		ug/L		NC	20
Bromacil	<0.098		<0.098		ug/L		NC	20
Butachlor	<0.049		<0.049		ug/L		NC	20
Butylbenzylphthalate	<0.49		<0.49		ug/L		NC	20
Chlorobenzilate	<0.098		<0.098		ug/L		NC	20
Chloroneb	<0.098		<0.098		ug/L		NC	20
Chlorothalonil (Draconil, Bravo)	<0.098		<0.098		ug/L		NC	20
Chlorpyrifos	<0.049		<0.049		ug/L		NC	20
Chrysene	<0.020		<0.020		ug/L		NC	20
delta-BHC	<0.098		<0.098		ug/L		NC	20
Di(2-ethylhexyl)adipate	<0.59		<0.59		ug/L		NC	20
Dibenz(a,h)anthracene	<0.049		<0.049		ug/L		NC	20
Diclorvos (DDVP)	<0.049		<0.049		ug/L		NC	20
Dieldrin	<0.0098		<0.0098		ug/L		NC	20
Diethylphthalate	<0.49		<0.49		ug/L		NC	20
Dimethylphthalate	<0.49		<0.49		ug/L		NC	20
Di-n-butyl phthalate	<0.98		<0.98		ug/L		NC	20
Di-n-octyl phthalate	<0.098		<0.098		ug/L		NC	20
Endosulfan I (Alpha)	<0.098		<0.098		ug/L		NC	20
Endosulfan II (Beta)	<0.098		<0.098		ug/L		NC	20
Endosulfan sulfate	<0.098		<0.098		ug/L		NC	20
Endrin	<0.0098		<0.0098		ug/L		NC	20
Endrin aldehyde	<0.098		<0.098		ug/L		NC	20
EPTC	<0.098		<0.098		ug/L		NC	20
Fluoranthene	<0.098		<0.098		ug/L		NC	20
Fluorene	<0.049		<0.049		ug/L		NC	20
gamma-Chlordane	<0.049		<0.049		ug/L		NC	20

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-147405-1
SDG: Weekly

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

Lab Sample ID: 380-147405-1 DU

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

Matrix: Drinking Water

Prep Type: Total/NA

Analysis Batch: 149781

Prep Batch: 149604

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Heptachlor	<0.0098		<0.0098		ug/L		NC	20
Heptachlor epoxide (isomer B)	<0.0098		<0.0098		ug/L		NC	20
Hexachlorobenzene	<0.049		<0.049		ug/L		NC	20
Hexachlorocyclopentadiene	<0.049		<0.049		ug/L		NC	20
Indeno[1,2,3-cd]pyrene	<0.049		<0.049		ug/L		NC	20
Isophorone	<0.098		<0.098		ug/L		NC	20
Lindane	<0.0098		<0.0098		ug/L		NC	20
Malathion	<0.098		<0.098		ug/L		NC	20
Methoxychlor	<0.049		<0.049		ug/L		NC	20
Metolachlor	<0.049		<0.049		ug/L		NC	20
Molinate	<0.098		<0.098		ug/L		NC	20
Naphthalene	<0.098		<0.098		ug/L		NC	20
Parathion	<0.098		<0.098		ug/L		NC	20
Pendimethalin (Penoxaline)	<0.098		<0.098		ug/L		NC	20
Phenanthrene	<0.039		<0.039		ug/L		NC	20
Propachlor	<0.049		<0.049		ug/L		NC	20
Pyrene	<0.049		<0.049		ug/L		NC	20
Simazine	<0.049		<0.049		ug/L		NC	20
Terbacil	<0.098		<0.098		ug/L		NC	20
Terbutylazine	<0.098		<0.098		ug/L		NC	20
Thiobencarb	<0.098		<0.098		ug/L		NC	20
Total Permethrin (mixed isomers)	<0.20		<0.20		ug/L		NC	20
trans-Nonachlor	<0.049		<0.049		ug/L		NC	20
Trifluralin	<0.098		<0.098		ug/L		NC	20

Surrogate	%Recovery	DU Qualifier	Limits
2-Nitro-m-xylene	96		70 - 130
Perylene-d12	89		70 - 130
Triphenylphosphate	109		70 - 130

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

Lab Sample ID: MB 570-563059/1-A

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 567853

Prep Batch: 563059

Tentatively Identified Compound	Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	04/25/25 16:28	05/07/25 12:20	1

Surrogate	%Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	78		33 - 139	04/25/25 16:28	05/07/25 12:20	1
2-Fluorobiphenyl (Surr)	81		33 - 126	04/25/25 16:28	05/07/25 12:20	1
2-Fluorophenol (Surr)	47		12 - 120	04/25/25 16:28	05/07/25 12:20	1
Nitrobenzene-d5 (Surr)	105		36 - 120	04/25/25 16:28	05/07/25 12:20	1
Phenol-d6 (Surr)	33		10 - 120	04/25/25 16:28	05/07/25 12:20	1
p-Terphenyl-d14 (Surr)	85		47 - 131	04/25/25 16:28	05/07/25 12:20	1

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-147405-1
SDG: Weekly

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

Lab Sample ID: MB 570-563681/6

Matrix: Water

Analysis Batch: 563681

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	<10		10	ug/L			04/28/25 12:40	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		38 - 134				04/28/25 12:40	1

Lab Sample ID: LCS 570-563681/4

Matrix: Water

Analysis Batch: 563681

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (C4-C13)	400	371		ug/L		93	78 - 120
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	89		38 - 134				

Lab Sample ID: LCSD 570-563681/5

Matrix: Water

Analysis Batch: 563681

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (C4-C13)	400	379		ug/L		95	78 - 120	2	10
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	87		38 - 134						

Lab Sample ID: MRL 570-563681/3

Matrix: Water

Analysis Batch: 563681

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (C4-C13)	10.0	9.36	J	ug/L		94	50 - 150
Surrogate	MRL %Recovery	MRL Qualifier	Limits				
4-Bromofluorobenzene (Surr)	85		38 - 134				

Lab Sample ID: 380-147415-B-3 MS

Matrix: Water

Analysis Batch: 563681

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (C4-C13)	<10		400	387		ug/L		97	68 - 122
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	92		38 - 134						

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-147405-1
SDG: Weekly

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

Lab Sample ID: 380-147415-B-3 MSD

Matrix: Water

Analysis Batch: 563681

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (C4-C13)	<10		400	375		ug/L		94	68 - 122	3	18
Surrogate	%Recovery	MSD Qualifier	MSD Limits								
4-Bromofluorobenzene (Surr)	90		38 - 134								

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

Lab Sample ID: MB 570-563894/1-B

Matrix: Water

Analysis Batch: 567004

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 563894

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<25		25	ug/L		04/28/25 14:56	05/05/25 17:53	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		04/28/25 14:56	05/05/25 17:53	1
C8-C18	<25		25	ug/L		04/28/25 14:56	05/05/25 17:53	1
Surrogate	%Recovery	MB Qualifier	MB Limits					Dil Fac
n-Octacosane (Surr)	134	S1+	60 - 130					1

Lab Sample ID: LCS 570-563894/2-B

Matrix: Water

Analysis Batch: 567004

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 563894

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	RPD
C10-C28	1600	1610		ug/L		101	56 - 127	
Surrogate	%Recovery	LCS Qualifier	LCS Limits					
n-Octacosane (Surr)	120		60 - 130					

Lab Sample ID: LCSD 570-563894/3-B

Matrix: Water

Analysis Batch: 567004

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 563894

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28	1600	1640		ug/L		102	56 - 127	2	23
Surrogate	%Recovery	LCSD Qualifier	LCSD Limits						
n-Octacosane (Surr)	124		60 - 130						

Lab Sample ID: MRL 570-563894/4-B

Matrix: Water

Analysis Batch: 567004

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 563894

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits	RPD
C10-C28	0.0200	0.0318	^3+	mg/L		159	50 - 150	

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-147405-1
SDG: Weekly

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

Lab Sample ID: MRL 570-563894/4-B

Matrix: Water

Analysis Batch: 567004

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 563894

	MRL	MRL	
Surrogate	%Recovery	Qualifier	Limits
n-Octacosane (Surr)	126		60 - 130

Lab Sample ID: 380-147415-C-3-C MS

Matrix: Water

Analysis Batch: 567004

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 563894

	Sample	Sample	Spike	MS	MS					
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
C10-C28	<26	^3+	1610	1670		ug/L		104	70 - 130	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
n-Octacosane (Surr)	124		60 - 130

Lab Sample ID: 380-147415-C-3-D MSD

Matrix: Water

Analysis Batch: 567004

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 563894

	Sample	Sample	Spike	MSD	MSD							
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	RPD	Limit
C10-C28	<26	^3+	1610	1470		ug/L		91	70 - 130	13		20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
n-Octacosane (Surr)	113		60 - 130

QC Association Summary

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

Job ID: 380-147405-1
SDG: Weekly

GC/MS Semi VOA

Prep Batch: 149604

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-147405-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	525.2	
380-147405-3	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	525.2	
MB 380-149604/21-A	Method Blank	Total/NA	Water	525.2	
LCS 380-149604/23-A	Lab Control Sample	Total/NA	Water	525.2	
LCSD 380-149604/24-A	Lab Control Sample Dup	Total/NA	Water	525.2	
MRL 380-149604/22-A	Lab Control Sample	Total/NA	Water	525.2	
380-147405-3 MS	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	525.2	
380-147405-1 DU	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	525.2	

Analysis Batch: 149781

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-147405-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	525.2	149604
380-147405-3	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	525.2	149604
MB 380-149604/21-A	Method Blank	Total/NA	Water	525.2	149604
LCS 380-149604/23-A	Lab Control Sample	Total/NA	Water	525.2	149604
LCSD 380-149604/24-A	Lab Control Sample Dup	Total/NA	Water	525.2	149604
MRL 380-149604/22-A	Lab Control Sample	Total/NA	Water	525.2	149604
380-147405-3 MS	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	525.2	149604
380-147405-1 DU	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	525.2	149604

Prep Batch: 563059

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-147405-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	625.1	
380-147405-3	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	625.1	
MB 570-563059/1-A	Method Blank	Total/NA	Water	625.1	

Analysis Batch: 567829

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-147405-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	625.1 SIM	563059
380-147405-3	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	625.1 SIM	563059

Analysis Batch: 567853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-147405-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	625.1	563059
380-147405-3	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	625.1	563059
MB 570-563059/1-A	Method Blank	Total/NA	Water	625.1	563059

GC VOA

Analysis Batch: 563681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-147405-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	8015B GRO LL	
380-147405-2	TB: AIEA GULCH WELLS PUMP 1 (331-201-TPC	Total/NA	Drinking Water	8015B GRO LL	
380-147405-3	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	8015B GRO LL	
380-147405-4	TB: AIEA GULCH WELLS PUMP 2 (331-202-TPC	Total/NA	Water	8015B GRO LL	
MB 570-563681/6	Method Blank	Total/NA	Water	8015B GRO LL	
LCS 570-563681/4	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-563681/5	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	
MRL 570-563681/3	Lab Control Sample	Total/NA	Water	8015B GRO LL	
380-147415-B-3 MS	Matrix Spike	Total/NA	Water	8015B GRO LL	
380-147415-B-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8015B GRO LL	

Eurofins Eaton Analytical Pomona

QC Association Summary

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

Job ID: 380-147405-1
SDG: Weekly

GC Semi VOA

Prep Batch: 563894

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-147405-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	3510C	
380-147405-3	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	3510C	
MB 570-563894/1-B	Method Blank	Total/NA	Water	3510C	
LCS 570-563894/2-B	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-563894/3-B	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-563894/4-B	Lab Control Sample	Total/NA	Water	3510C	
380-147415-C-3-C MS	Matrix Spike	Total/NA	Water	3510C	
380-147415-C-3-D MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

Analysis Batch: 567004

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-147405-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	8015B	563894
380-147405-3	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	8015B	563894
MB 570-563894/1-B	Method Blank	Total/NA	Water	8015B	563894
LCS 570-563894/2-B	Lab Control Sample	Total/NA	Water	8015B	563894
LCSD 570-563894/3-B	Lab Control Sample Dup	Total/NA	Water	8015B	563894
MRL 570-563894/4-B	Lab Control Sample	Total/NA	Water	8015B	563894
380-147415-C-3-C MS	Matrix Spike	Total/NA	Water	8015B	563894
380-147415-C-3-D MSD	Matrix Spike Duplicate	Total/NA	Water	8015B	563894

Lab Chronicle

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

Job ID: 380-147405-1
SDG: Weekly

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

Lab Sample ID: 380-147405-1

Date Collected: 04/21/25 10:32

Matrix: Drinking Water

Date Received: 04/24/25 09:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			149604	KRD3	EA POM	04/28/25 09:22
Total/NA	Analysis	525.2		1	149781	Q8LA	EA POM	04/29/25 13:21
Total/NA	Prep	625.1			563059	UD4J	EET CAL 4	04/25/25 16:28
Total/NA	Analysis	625.1		1	567853	J7WE	EET CAL 4	05/07/25 14:39
Total/NA	Prep	625.1			563059	UD4J	EET CAL 4	04/25/25 16:28
Total/NA	Analysis	625.1 SIM		1	567829	PQS1	EET CAL 4	05/07/25 13:24
Total/NA	Analysis	8015B GRO LL		1	563681	A9VE	EET CAL 4	04/28/25 22:21
Total/NA	Prep	3510C			563894	TVD6	EET CAL 4	04/28/25 14:57
Total/NA	Analysis	8015B		1	567004	NR	EET CAL 4	05/05/25 20:42

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

Lab Sample ID: 380-147405-2

Date Collected: 04/21/25 10:32

Matrix: Drinking Water

Date Received: 04/24/25 09:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	563681	A9VE	EET CAL 4	04/28/25 19:38

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

Lab Sample ID: 380-147405-3

Date Collected: 04/21/25 10:55

Matrix: Drinking Water

Date Received: 04/24/25 09:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			149604	KRD3	EA POM	04/28/25 09:22
Total/NA	Analysis	525.2		1	149781	Q8LA	EA POM	04/29/25 13:01
Total/NA	Prep	625.1			563059	UD4J	EET CAL 4	04/25/25 16:28
Total/NA	Analysis	625.1		1	567853	J7WE	EET CAL 4	05/07/25 15:02
Total/NA	Prep	625.1			563059	UD4J	EET CAL 4	04/25/25 16:28
Total/NA	Analysis	625.1 SIM		1	567829	PQS1	EET CAL 4	05/07/25 13:46
Total/NA	Analysis	8015B GRO LL		1	563681	A9VE	EET CAL 4	04/28/25 22:46
Total/NA	Prep	3510C			563894	TVD6	EET CAL 4	04/28/25 14:57
Total/NA	Analysis	8015B		1	567004	NR	EET CAL 4	05/05/25 21:03

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

Lab Sample ID: 380-147405-4

Date Collected: 04/21/25 10:55

Matrix: Water

Date Received: 04/24/25 09:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	563681	A9VE	EET CAL 4	04/28/25 19:13

Eurofins Eaton Analytical Pomona

Lab Chronicle

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

Job ID: 380-147405-1
SDG: Weekly

Laboratory References:

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

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Accreditation/Certification Summary

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

Job ID: 380-147405-1
SDG: Weekly

Laboratory: Eurofins Eaton Analytical Pomona

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

Authority	Program	Identification Number	Expiration Date
Hawaii	State	CA00006	01-31-26
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
525.2	525.2	Drinking Water	1-Methylnaphthalene
525.2	525.2	Drinking Water	2,4'-DDD
525.2	525.2	Drinking Water	2,4'-DDE
525.2	525.2	Drinking Water	2,4'-DDT
525.2	525.2	Drinking Water	2,4-Dinitrotoluene
525.2	525.2	Drinking Water	2,6-Dinitrotoluene
525.2	525.2	Drinking Water	2-Methylnaphthalene
525.2	525.2	Drinking Water	4,4'-DDD
525.2	525.2	Drinking Water	4,4'-DDE
525.2	525.2	Drinking Water	4,4' DDT
525.2	525.2	Drinking Water	Acetochlor
525.2	525.2	Drinking Water	alpha-BHC
525.2	525.2	Drinking Water	alpha-Chlordane
525.2	525.2	Drinking Water	beta-BHC
525.2	525.2	Drinking Water	Chlorobenzilate
525.2	525.2	Drinking Water	Chloroneb
525.2	525.2	Drinking Water	Chlorothalonil (Draconil, Bravo)
525.2	525.2	Drinking Water	Chlorpyrifos
525.2	525.2	Drinking Water	delta-BHC
525.2	525.2	Drinking Water	Diclorvos (DDVP)
525.2	525.2	Drinking Water	Endosulfan I (Alpha)
525.2	525.2	Drinking Water	Endosulfan II (Beta)
525.2	525.2	Drinking Water	Endosulfan sulfate
525.2	525.2	Drinking Water	Endrin aldehyde
525.2	525.2	Drinking Water	EPTC
525.2	525.2	Drinking Water	gamma-Chlordane
525.2	525.2	Drinking Water	Isophorone
525.2	525.2	Drinking Water	Malathion
525.2	525.2	Drinking Water	Parathion
525.2	525.2	Drinking Water	Pendimethalin (Penoxaline)
525.2	525.2	Drinking Water	Terbacil
525.2	525.2	Drinking Water	Terbutylazine
525.2	525.2	Drinking Water	Total Permethrin (mixed isomers)
525.2	525.2	Drinking Water	trans-Nonachlor

Laboratory: Eurofins Calscience

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

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	7296.01	11-30-26
Arizona	State	AZ0830	11-16-25
Arkansas DEQ	State	88-01672	07-02-25
California	Los Angeles County Sanitation Districts	9257304	07-31-26
California	SCAQMD LAP	17LA0919	11-30-25
California	State	3082	07-31-25

Eurofins Eaton Analytical Pomona

Accreditation/Certification Summary

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

Job ID: 380-147405-1
SDG: Weekly

Laboratory: Eurofins Calscience (Continued)

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

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

Method Summary

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

Job ID: 380-147405-1
SDG: Weekly

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

Protocol References:

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

EPA = US Environmental Protection Agency

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

Laboratory References:

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

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

Sample Summary

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

Job ID: 380-147405-1
SDG: Weekly

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	PWSID Number
380-147405-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Drinking Water	04/21/25 10:32	04/24/25 09:34	HI0000331
380-147405-2	TB: AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Drinking Water	04/21/25 10:32	04/24/25 09:34	
380-147405-3	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Drinking Water	04/21/25 10:55	04/24/25 09:34	HI0000331
380-147405-4	TB: AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Water	04/21/25 10:55	04/24/25 09:34	

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

Chain of Custody Record



Er Loc: 380
147405

[illegible]

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-147405-1

SDG Number: Weekly

Login Number: 147405

List Source: Eurofins Eaton Analytical Pomona

List Number: 1

Creator: Segura, Ryan

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

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-147405-1

SDG Number: Weekly

Login Number: 147405

List Number: 2

Creator: Khana, Piyush

List Source: Eurofins Calscience

List Creation: 04/25/25 01:52 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	