

ANALYTICAL REPORT

PREPARED FOR

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JOB DESCRIPTION

RED-HILL
Weekly
RUSH Weekly Red Hill

JOB NUMBER

380-151711-1

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: 380-151711-1
SDG: Weekly

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*3	ISTD response or retention time outside acceptable limits.
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, low biased.

GC/MS Semi VOA TICs

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

GC Semi VOA

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

Glossary

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

Case Narrative

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

Job ID: 380-151711-1

Job ID: 380-151711-1

Eurofins Eaton Analytical Pomona

Job Narrative 380-151711-1

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 5/21/2025 9:52 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 1.8°C and 2.6°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 570-574445 and analytical batch 570-575632 recovered outside control limits for the following analytes: C10-C28. These analytes were biased high in the MRL and were not detected in the associated samples; therefore, the data have been reported.

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

Eurofins Eaton Analytical Pomona

Detection Summary

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

Job ID: 380-151711-1
SDG: Weekly

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

Lab Sample ID: 380-151711-1

☐ No Detections.

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

Lab Sample ID: 380-151711-2

☐ No Detections.

Client Sample ID: TB: AIEA GULCH WELLS PUMP 1

Lab Sample ID: 380-151711-3

☐ No Detections.

Client Sample ID: TB: AIEA GULCH WELLS PUMP 2

Lab Sample ID: 380-151711-4

☐ 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: 380-151711-1
SDG: Weekly

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

Lab Sample ID: 380-151711-1

Date Collected: 05/19/25 11:04

Matrix: Drinking Water

Date Received: 05/21/25 09:52

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		05/22/25 14:50	05/23/25 14:57	1
2,4'-DDD	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 14:57	1
2,4'-DDE	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 14:57	1
2,4'-DDT	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 14:57	1
2,4-Dinitrotoluene	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 14:57	1
2,6-Dinitrotoluene	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 14:57	1
2-Methylnaphthalene	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 14:57	1
4,4'-DDD	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 14:57	1
4,4'-DDE	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 14:57	1
4,4'-DDT	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 14:57	1
Acenaphthene	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 14:57	1
Acenaphthylene	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 14:57	1
Acetochlor	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 14:57	1
Alachlor	<0.049		0.049	ug/L		05/22/25 14:50	05/23/25 14:57	1
alpha-BHC	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 14:57	1
alpha-Chlordane	<0.049		0.049	ug/L		05/22/25 14:50	05/23/25 14:57	1
Anthracene	<0.020		0.020	ug/L		05/22/25 14:50	05/23/25 14:57	1
Atrazine	<0.049		0.049	ug/L		05/22/25 14:50	05/23/25 14:57	1
Benz(a)anthracene	<0.049		0.049	ug/L		05/22/25 14:50	05/23/25 14:57	1
Benzo[a]pyrene	<0.020		0.020	ug/L		05/22/25 14:50	05/23/25 14:57	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		05/22/25 14:50	05/23/25 14:57	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		05/22/25 14:50	05/23/25 14:57	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		05/22/25 14:50	05/23/25 14:57	1
beta-BHC	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 14:57	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		05/22/25 14:50	05/23/25 14:57	1
Bromacil	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 14:57	1
Butachlor	<0.049		0.049	ug/L		05/22/25 14:50	05/23/25 14:57	1
Butylbenzylphthalate	<0.49		0.49	ug/L		05/22/25 14:50	05/23/25 14:57	1
Chlorobenzilate	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 14:57	1
Chloroneb	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 14:57	1
Chlorothalonil (Draconil, Bravo)	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 14:57	1
Chlorpyrifos	<0.049		0.049	ug/L		05/22/25 14:50	05/23/25 14:57	1
Chrysene	<0.020		0.020	ug/L		05/22/25 14:50	05/23/25 14:57	1
delta-BHC	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 14:57	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		05/22/25 14:50	05/23/25 14:57	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		05/22/25 14:50	05/23/25 14:57	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		05/22/25 14:50	05/23/25 14:57	1
Dieldrin	<0.0098		0.0098	ug/L		05/22/25 14:50	05/23/25 14:57	1
Diethylphthalate	<0.49		0.49	ug/L		05/22/25 14:50	05/23/25 14:57	1
Dimethylphthalate	<0.49		0.49	ug/L		05/22/25 14:50	05/23/25 14:57	1
Di-n-butyl phthalate	<0.98		0.98	ug/L		05/22/25 14:50	05/23/25 14:57	1
Di-n-octyl phthalate	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 14:57	1
Endosulfan I (Alpha)	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 14:57	1
Endosulfan II (Beta)	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 14:57	1
Endosulfan sulfate	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 14:57	1
Endrin	<0.0098		0.0098	ug/L		05/22/25 14:50	05/23/25 14:57	1
Endrin aldehyde	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 14:57	1
EPTC	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 14:57	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-151711-1
SDG: Weekly

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

Lab Sample ID: 380-151711-1

Date Collected: 05/19/25 11:04

Matrix: Drinking Water

Date Received: 05/21/25 09:52

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		05/22/25 14:50	05/23/25 14:57	1
Fluorene	<0.049		0.049	ug/L		05/22/25 14:50	05/23/25 14:57	1
gamma-Chlordane	<0.049		0.049	ug/L		05/22/25 14:50	05/23/25 14:57	1
Heptachlor	<0.0098		0.0098	ug/L		05/22/25 14:50	05/23/25 14:57	1
Heptachlor epoxide (isomer B)	<0.0098		0.0098	ug/L		05/22/25 14:50	05/23/25 14:57	1
Hexachlorobenzene	<0.049		0.049	ug/L		05/22/25 14:50	05/23/25 14:57	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		05/22/25 14:50	05/23/25 14:57	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		05/22/25 14:50	05/23/25 14:57	1
Isophorone	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 14:57	1
Lindane	<0.0098		0.0098	ug/L		05/22/25 14:50	05/23/25 14:57	1
Malathion	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 14:57	1
Methoxychlor	<0.049		0.049	ug/L		05/22/25 14:50	05/23/25 14:57	1
Metolachlor	<0.049		0.049	ug/L		05/22/25 14:50	05/23/25 14:57	1
Molinate	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 14:57	1
Naphthalene	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 14:57	1
Parathion	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 14:57	1
Pendimethalin (Penoxaline)	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 14:57	1
Phenanthrene	<0.039		0.039	ug/L		05/22/25 14:50	05/23/25 14:57	1
Propachlor	<0.049		0.049	ug/L		05/22/25 14:50	05/23/25 14:57	1
Pyrene	<0.049		0.049	ug/L		05/22/25 14:50	05/23/25 14:57	1
Simazine	<0.049		0.049	ug/L		05/22/25 14:50	05/23/25 14:57	1
Terbacil	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 14:57	1
Terbutylazine	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 14:57	1
Thiobencarb	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 14:57	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		05/22/25 14:50	05/23/25 14:57	1
trans-Nonachlor	<0.049		0.049	ug/L		05/22/25 14:50	05/23/25 14:57	1
Trifluralin	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 14:57	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	05/22/25 14:50	05/23/25 14:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	91		70 - 130	05/22/25 14:50	05/23/25 14:57	1
Perylene-d12	88		70 - 130	05/22/25 14:50	05/23/25 14:57	1
Triphenylphosphate	110		70 - 130	05/22/25 14:50	05/23/25 14:57	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		05/23/25 09:56	06/04/25 15:21	1
2-Methylnaphthalene	<0.19		0.19	ug/L		05/23/25 09:56	06/04/25 15:21	1
Acenaphthene	<0.19		0.19	ug/L		05/23/25 09:56	06/04/25 15:21	1
Acenaphthylene	<0.19		0.19	ug/L		05/23/25 09:56	06/04/25 15:21	1
Anthracene	<0.19		0.19	ug/L		05/23/25 09:56	06/04/25 15:21	1
Benzo[a]anthracene	<0.19		0.19	ug/L		05/23/25 09:56	06/04/25 15:21	1
Benzo[a]pyrene	<0.19		0.19	ug/L		05/23/25 09:56	06/04/25 15:21	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		05/23/25 09:56	06/04/25 15:21	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		05/23/25 09:56	06/04/25 15:21	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		05/23/25 09:56	06/04/25 15:21	1
Chrysene	<0.19		0.19	ug/L		05/23/25 09:56	06/04/25 15:21	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-151711-1
SDG: Weekly

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

Lab Sample ID: 380-151711-1

Date Collected: 05/19/25 11:04

Matrix: Drinking Water

Date Received: 05/21/25 09:52

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		05/23/25 09:56	06/04/25 15:21	1
Fluoranthene	<0.19		0.19	ug/L		05/23/25 09:56	06/04/25 15:21	1
Fluorene	<0.19		0.19	ug/L		05/23/25 09:56	06/04/25 15:21	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		05/23/25 09:56	06/04/25 15:21	1
Naphthalene	<0.19		0.19	ug/L		05/23/25 09:56	06/04/25 15:21	1
Phenanthrene	<0.19		0.19	ug/L		05/23/25 09:56	06/04/25 15:21	1
Pyrene	<0.19		0.19	ug/L		05/23/25 09:56	06/04/25 15:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	77		28 - 127	05/23/25 09:56	06/04/25 15:21	1
2-Fluorobiphenyl (Surr)	66		31 - 120	05/23/25 09:56	06/04/25 15:21	1
2-Fluorophenol (Surr)	43		17 - 120	05/23/25 09:56	06/04/25 15:21	1
Nitrobenzene-d5 (Surr)	70		27 - 120	05/23/25 09:56	06/04/25 15:21	1
Phenol-d6 (Surr)	27		10 - 120	05/23/25 09:56	06/04/25 15:21	1
p-Terphenyl-d14 (Surr)	82		45 - 120	05/23/25 09:56	06/04/25 15:21	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
Bicyclo[3.1.1]heptan-3-one, 2,6,6-trimethyl-, (1.alpha.,2.be	5.9	T J N	ug/L		2.94	15358-88-0	05/23/25 09:56	06/04/25 13:52	1
2-Butenal, 3-methyl-	16	T J N	ug/L		3.15	107-86-8	05/23/25 09:56	06/04/25 13:52	1
1-Butanol, 2-ethyl-	10	T J N	ug/L		3.24	97-95-0	05/23/25 09:56	06/04/25 13:52	1
Cyclopropane, 3-chloro-1,1,2,2-tetramethyl-	11	T J N	ug/L		3.35	14123-41-2	05/23/25 09:56	06/04/25 13:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	54		33 - 139	05/23/25 09:56	06/04/25 13:52	1
2-Fluorobiphenyl (Surr)	58		33 - 126	05/23/25 09:56	06/04/25 13:52	1
2-Fluorophenol (Surr)	43		12 - 120	05/23/25 09:56	06/04/25 13:52	1
Nitrobenzene-d5 (Surr)	73		36 - 120	05/23/25 09:56	06/04/25 13:52	1
Phenol-d6 (Surr)	26		10 - 120	05/23/25 09:56	06/04/25 13:52	1
p-Terphenyl-d14 (Surr)	72		47 - 131	05/23/25 09:56	06/04/25 13:52	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			05/29/25 18:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		38 - 134		05/29/25 18:46	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)	<27		27	ug/L		05/23/25 09:09	05/25/25 09:20	1
Motor Oil Range Organics [C24-C36]	<27		27	ug/L		05/23/25 09:09	05/25/25 09:20	1
C8-C18	<27		27	ug/L		05/23/25 09:09	05/25/25 09:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	94		60 - 130	05/23/25 09:09	05/25/25 09:20	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-151711-1
SDG: Weekly

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

Lab Sample ID: 380-151711-2

Date Collected: 05/19/25 11:23

Matrix: Drinking Water

Date Received: 05/21/25 09:52

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		05/22/25 14:50	05/23/25 15:17	1
2,4'-DDD	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 15:17	1
2,4'-DDE	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 15:17	1
2,4'-DDT	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 15:17	1
2,4-Dinitrotoluene	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 15:17	1
2,6-Dinitrotoluene	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 15:17	1
2-Methylnaphthalene	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 15:17	1
4,4'-DDD	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 15:17	1
4,4'-DDE	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 15:17	1
4,4'-DDT	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 15:17	1
Acenaphthene	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 15:17	1
Acenaphthylene	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 15:17	1
Acetochlor	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 15:17	1
Alachlor	<0.049		0.049	ug/L		05/22/25 14:50	05/23/25 15:17	1
alpha-BHC	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 15:17	1
alpha-Chlordane	<0.049		0.049	ug/L		05/22/25 14:50	05/23/25 15:17	1
Anthracene	<0.020		0.020	ug/L		05/22/25 14:50	05/23/25 15:17	1
Atrazine	<0.049		0.049	ug/L		05/22/25 14:50	05/23/25 15:17	1
Benz(a)anthracene	<0.049		0.049	ug/L		05/22/25 14:50	05/23/25 15:17	1
Benzo[a]pyrene	<0.020		0.020	ug/L		05/22/25 14:50	05/23/25 15:17	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		05/22/25 14:50	05/23/25 15:17	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		05/22/25 14:50	05/23/25 15:17	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		05/22/25 14:50	05/23/25 15:17	1
beta-BHC	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 15:17	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		05/22/25 14:50	05/23/25 15:17	1
Bromacil	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 15:17	1
Butachlor	<0.049		0.049	ug/L		05/22/25 14:50	05/23/25 15:17	1
Butylbenzylphthalate	<0.49		0.49	ug/L		05/22/25 14:50	05/23/25 15:17	1
Chlorobenzilate	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 15:17	1
Chloroneb	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 15:17	1
Chlorothalonil (Draconil, Bravo)	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 15:17	1
Chlorpyrifos	<0.049		0.049	ug/L		05/22/25 14:50	05/23/25 15:17	1
Chrysene	<0.020		0.020	ug/L		05/22/25 14:50	05/23/25 15:17	1
delta-BHC	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 15:17	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		05/22/25 14:50	05/23/25 15:17	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		05/22/25 14:50	05/23/25 15:17	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		05/22/25 14:50	05/23/25 15:17	1
Dieldrin	<0.0098		0.0098	ug/L		05/22/25 14:50	05/23/25 15:17	1
Diethylphthalate	<0.49		0.49	ug/L		05/22/25 14:50	05/23/25 15:17	1
Dimethylphthalate	<0.49		0.49	ug/L		05/22/25 14:50	05/23/25 15:17	1
Di-n-butyl phthalate	<0.98		0.98	ug/L		05/22/25 14:50	05/23/25 15:17	1
Di-n-octyl phthalate	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 15:17	1
Endosulfan I (Alpha)	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 15:17	1
Endosulfan II (Beta)	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 15:17	1
Endosulfan sulfate	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 15:17	1
Endrin	<0.0098		0.0098	ug/L		05/22/25 14:50	05/23/25 15:17	1
Endrin aldehyde	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 15:17	1
EPTC	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 15:17	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-151711-1
SDG: Weekly

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

Lab Sample ID: 380-151711-2

Date Collected: 05/19/25 11:23

Matrix: Drinking Water

Date Received: 05/21/25 09:52

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		05/22/25 14:50	05/23/25 15:17	1
Fluorene	<0.049		0.049	ug/L		05/22/25 14:50	05/23/25 15:17	1
gamma-Chlordane	<0.049		0.049	ug/L		05/22/25 14:50	05/23/25 15:17	1
Heptachlor	<0.0098		0.0098	ug/L		05/22/25 14:50	05/23/25 15:17	1
Heptachlor epoxide (isomer B)	<0.0098		0.0098	ug/L		05/22/25 14:50	05/23/25 15:17	1
Hexachlorobenzene	<0.049		0.049	ug/L		05/22/25 14:50	05/23/25 15:17	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		05/22/25 14:50	05/23/25 15:17	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		05/22/25 14:50	05/23/25 15:17	1
Isophorone	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 15:17	1
Lindane	<0.0098		0.0098	ug/L		05/22/25 14:50	05/23/25 15:17	1
Malathion	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 15:17	1
Methoxychlor	<0.049		0.049	ug/L		05/22/25 14:50	05/23/25 15:17	1
Metolachlor	<0.049		0.049	ug/L		05/22/25 14:50	05/23/25 15:17	1
Molinate	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 15:17	1
Naphthalene	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 15:17	1
Parathion	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 15:17	1
Pendimethalin (Penoxaline)	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 15:17	1
Phenanthrene	<0.039		0.039	ug/L		05/22/25 14:50	05/23/25 15:17	1
Propachlor	<0.049		0.049	ug/L		05/22/25 14:50	05/23/25 15:17	1
Pyrene	<0.049		0.049	ug/L		05/22/25 14:50	05/23/25 15:17	1
Simazine	<0.049		0.049	ug/L		05/22/25 14:50	05/23/25 15:17	1
Terbacil	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 15:17	1
Terbutylazine	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 15:17	1
Thiobencarb	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 15:17	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		05/22/25 14:50	05/23/25 15:17	1
trans-Nonachlor	<0.049		0.049	ug/L		05/22/25 14:50	05/23/25 15:17	1
Trifluralin	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 15:17	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	05/22/25 14:50	05/23/25 15:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	91		70 - 130	05/22/25 14:50	05/23/25 15:17	1
Perylene-d12	86		70 - 130	05/22/25 14:50	05/23/25 15:17	1
Triphenylphosphate	104		70 - 130	05/22/25 14:50	05/23/25 15:17	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		05/23/25 09:56	06/04/25 15:43	1
2-Methylnaphthalene	<0.19		0.19	ug/L		05/23/25 09:56	06/04/25 15:43	1
Acenaphthene	<0.19		0.19	ug/L		05/23/25 09:56	06/04/25 15:43	1
Acenaphthylene	<0.19		0.19	ug/L		05/23/25 09:56	06/04/25 15:43	1
Anthracene	<0.19		0.19	ug/L		05/23/25 09:56	06/04/25 15:43	1
Benzo[a]anthracene	<0.19		0.19	ug/L		05/23/25 09:56	06/04/25 15:43	1
Benzo[a]pyrene	<0.19		0.19	ug/L		05/23/25 09:56	06/04/25 15:43	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		05/23/25 09:56	06/04/25 15:43	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		05/23/25 09:56	06/04/25 15:43	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		05/23/25 09:56	06/04/25 15:43	1
Chrysene	<0.19		0.19	ug/L		05/23/25 09:56	06/04/25 15:43	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-151711-1
SDG: Weekly

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

Lab Sample ID: 380-151711-2

Date Collected: 05/19/25 11:23

Matrix: Drinking Water

Date Received: 05/21/25 09:52

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		05/23/25 09:56	06/04/25 15:43	1
Fluoranthene	<0.19		0.19	ug/L		05/23/25 09:56	06/04/25 15:43	1
Fluorene	<0.19		0.19	ug/L		05/23/25 09:56	06/04/25 15:43	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		05/23/25 09:56	06/04/25 15:43	1
Naphthalene	<0.19		0.19	ug/L		05/23/25 09:56	06/04/25 15:43	1
Phenanthrene	<0.19		0.19	ug/L		05/23/25 09:56	06/04/25 15:43	1
Pyrene	<0.19		0.19	ug/L		05/23/25 09:56	06/04/25 15:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	88		28 - 127	05/23/25 09:56	06/04/25 15:43	1
2-Fluorobiphenyl (Surr)	76		31 - 120	05/23/25 09:56	06/04/25 15:43	1
2-Fluorophenol (Surr)	52		17 - 120	05/23/25 09:56	06/04/25 15:43	1
Nitrobenzene-d5 (Surr)	81		27 - 120	05/23/25 09:56	06/04/25 15:43	1
Phenol-d6 (Surr)	33		10 - 120	05/23/25 09:56	06/04/25 15:43	1
p-Terphenyl-d14 (Surr)	81		45 - 120	05/23/25 09:56	06/04/25 15:43	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
2-Butenal, 3-methyl-	20	T J N	ug/L		3.15	107-86-8	05/23/25 09:56	06/04/25 14:15	1
Heptane, 3,4-dimethyl-	12	T J N	ug/L		3.24	922-28-1	05/23/25 09:56	06/04/25 14:15	1
Cyclohexane, 1,1-dimethyl-	16	T J N	ug/L		3.35	590-66-9	05/23/25 09:56	06/04/25 14:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	62		33 - 139	05/23/25 09:56	06/04/25 14:15	1
2-Fluorobiphenyl (Surr)	69		33 - 126	05/23/25 09:56	06/04/25 14:15	1
2-Fluorophenol (Surr)	51		12 - 120	05/23/25 09:56	06/04/25 14:15	1
Nitrobenzene-d5 (Surr)	85		36 - 120	05/23/25 09:56	06/04/25 14:15	1
Phenol-d6 (Surr)	29		10 - 120	05/23/25 09:56	06/04/25 14:15	1
p-Terphenyl-d14 (Surr)	71		47 - 131	05/23/25 09:56	06/04/25 14:15	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			05/29/25 19:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		38 - 134		05/29/25 19:11	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)	<27		27	ug/L		05/23/25 09:09	05/25/25 09:41	1
Motor Oil Range Organics [C24-C36]	<27		27	ug/L		05/23/25 09:09	05/25/25 09:41	1
C8-C18	<27		27	ug/L		05/23/25 09:09	05/25/25 09:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	97		60 - 130	05/23/25 09:09	05/25/25 09:41	1

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Client Sample Results

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

Job ID: 380-151711-1
SDG: Weekly

Client Sample ID: TB: AIEA GULCH WELLS PUMP 1

Lab Sample ID: 380-151711-3

Date Collected: 05/19/25 11:04

Matrix: Water

Date Received: 05/21/25 09:52

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			05/29/25 13:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		38 - 134				05/29/25 13:32	1

Client Sample ID: TB: AIEA GULCH WELLS PUMP 2

Lab Sample ID: 380-151711-4

Date Collected: 05/19/25 11:23

Matrix: Water

Date Received: 05/21/25 09:52

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			05/29/25 17:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		38 - 134				05/29/25 17:32	1

Action Limit Summary

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

Job ID: 380-151711-1
SDG: Weekly

Client Sample ID: AIEA GULCH WELLS PUMP 1

Lab Sample ID: 380-151711-1

(331-201-TP071)

PWSID Number: HI0000331

Compliance Check

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

Analyte	Result	Qualifier	Unit	EPAMCL	RL	Method	Prep Type
				Limit			
Alachlor	<0.049		ug/L	2	0.049	525.2	Total/NA
Atrazine	<0.049		ug/L	3	0.049	525.2	Total/NA
Benzo[a]pyrene	<0.020		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

Lab Sample ID: 380-151711-2

(331-202-TP072)

PWSID Number: HI0000331

Compliance Check

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

Analyte	Result	Qualifier	Unit	EPAMCL	RL	Method	Prep Type
				Limit			
Alachlor	<0.049		ug/L	2	0.049	525.2	Total/NA
Atrazine	<0.049		ug/L	3	0.049	525.2	Total/NA
Benzo[a]pyrene	<0.020		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: 380-151711-1
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)				
380-151711-1	AIEA GULCH WELLS PUMP 1 (	91	88	110				
380-151711-2	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	91	86	104				
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)				
380-151033-O-1-A MS	Matrix Spike	92	64 *3 S1-	114				
380-151659-K-1-A DU	Duplicate	91	88	108				
LCS 380-153987/23-A	Lab Control Sample	90	95	114				
MB 380-153987/21-A	Method Blank	93	70	107				
MRL 380-153987/22-A	Lab Control Sample	91	88	106				
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)		
380-151711-1	AIEA GULCH WELLS PUMP 1 (	54	58	43	73	26	72		
380-151711-2	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	62	69	51	85	29	71		
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 - 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 570-575026/1-A	Method Blank	60	61	48	76	28	67		
Surrogate Legend									

Surrogate Summary

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

Job ID: 380-151711-1
SDG: Weekly

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)
380-151711-1	AIEA GULCH WELLS PUMP 1 (	77	66	43	70	27	82
380-151711-2	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	88	76	52	81	33	81

Surrogate Legend

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

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (28-127)	FBP (31-120)	2FP (17-120)	NBZ (27-120)	PHL6 (10-120)	TPHd14 (45-120)
380-151743-C-1-A MS	Matrix Spike	89	81	56	71	38	88
380-151743-C-1-B MSD	Matrix Spike Duplicate	82	75	54	67	35	83
LCS 570-575026/2-A	Lab Control Sample	95	84	59	71	40	89
LCSD 570-575026/3-A	Lab Control Sample Dup	87	82	59	68	39	85
MB 570-575026/1-A	Method Blank	75	66	43	67	27	76

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)					
380-151711-1	AIEA GULCH WELLS PUMP 1 (	80					
380-151711-2	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	80					

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

Surrogate Summary

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

Job ID: 380-151711-1
SDG: Weekly

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (38-134)
380-151402-C-1 MS	Matrix Spike	87
380-151402-C-1 MSD	Matrix Spike Duplicate	86
380-151711-3	TB: AIEA GULCH WELLS PUMF 1	81
380-151711-4	TB: AIEA GULCH WELLS PUMF 2	80
380-151743-A-1 MS	Matrix Spike	85
380-151743-A-1 MSD	Matrix Spike Duplicate	88
LCS 570-576992/4	Lab Control Sample	87
LCSD 570-576992/5	Lab Control Sample Dup	88
MB 570-576992/6	Method Blank	80
MRL 570-576992/3	Lab Control Sample	83

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)
380-151711-1	AIEA GULCH WELLS PUMP 1 (	94
380-151711-2	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	97

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)
380-151743-B-1-A MS	Matrix Spike	85
380-151743-B-1-B MSD	Matrix Spike Duplicate	99
LCS 570-574445/2-A	Lab Control Sample	110
LCSD 570-574445/3-A	Lab Control Sample Dup	106
MB 570-574445/1-A	Method Blank	103
MRL 570-574445/4-A	Lab Control Sample	119

Surrogate Legend

OTCSN = n-Octacosane (Surr)

QC Sample Results

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

Job ID: 380-151711-1
SDG: Weekly

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

Lab Sample ID: MB 380-153987/21-A

Matrix: Water

Analysis Batch: 154161

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 153987

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 13:57	1
2,4'-DDD	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 13:57	1
2,4'-DDE	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 13:57	1
2,4'-DDT	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 13:57	1
2,4-Dinitrotoluene	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 13:57	1
2,6-Dinitrotoluene	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 13:57	1
2-Methylnaphthalene	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 13:57	1
4,4'-DDD	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 13:57	1
4,4'-DDE	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 13:57	1
4,4'-DDT	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 13:57	1
Acenaphthene	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 13:57	1
Acenaphthylene	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 13:57	1
Acetochlor	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 13:57	1
Alachlor	<0.049		0.049	ug/L		05/22/25 14:50	05/23/25 13:57	1
alpha-BHC	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 13:57	1
alpha-Chlordane	<0.049		0.049	ug/L		05/22/25 14:50	05/23/25 13:57	1
Anthracene	<0.020		0.020	ug/L		05/22/25 14:50	05/23/25 13:57	1
Atrazine	<0.049		0.049	ug/L		05/22/25 14:50	05/23/25 13:57	1
Benz(a)anthracene	<0.049		0.049	ug/L		05/22/25 14:50	05/23/25 13:57	1
Benzo[a]pyrene	<0.020		0.020	ug/L		05/22/25 14:50	05/23/25 13:57	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		05/22/25 14:50	05/23/25 13:57	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		05/22/25 14:50	05/23/25 13:57	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		05/22/25 14:50	05/23/25 13:57	1
beta-BHC	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 13:57	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		05/22/25 14:50	05/23/25 13:57	1
Bromacil	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 13:57	1
Butachlor	<0.049		0.049	ug/L		05/22/25 14:50	05/23/25 13:57	1
Butylbenzylphthalate	<0.49		0.49	ug/L		05/22/25 14:50	05/23/25 13:57	1
Chlorobenzilate	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 13:57	1
Chloroneb	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 13:57	1
Chlorothalonil (Draconil, Bravo)	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 13:57	1
Chlorpyrifos	<0.049		0.049	ug/L		05/22/25 14:50	05/23/25 13:57	1
Chrysene	<0.020		0.020	ug/L		05/22/25 14:50	05/23/25 13:57	1
delta-BHC	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 13:57	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		05/22/25 14:50	05/23/25 13:57	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		05/22/25 14:50	05/23/25 13:57	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		05/22/25 14:50	05/23/25 13:57	1
Dieldrin	<0.0098		0.0098	ug/L		05/22/25 14:50	05/23/25 13:57	1
Diethylphthalate	<0.49		0.49	ug/L		05/22/25 14:50	05/23/25 13:57	1
Dimethylphthalate	<0.49		0.49	ug/L		05/22/25 14:50	05/23/25 13:57	1
Di-n-butyl phthalate	<0.98		0.98	ug/L		05/22/25 14:50	05/23/25 13:57	1
Di-n-octyl phthalate	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 13:57	1
Endosulfan I (Alpha)	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 13:57	1
Endosulfan II (Beta)	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 13:57	1
Endosulfan sulfate	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 13:57	1
Endrin	<0.0098		0.0098	ug/L		05/22/25 14:50	05/23/25 13:57	1
Endrin aldehyde	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 13:57	1
EPTC	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 13:57	1

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QC Sample Results

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

Job ID: 380-151711-1
SDG: Weekly

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

Lab Sample ID: MB 380-153987/21-A

Matrix: Water

Analysis Batch: 154161

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 153987

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 13:57	1
Fluorene	<0.049		0.049	ug/L		05/22/25 14:50	05/23/25 13:57	1
gamma-Chlordane	<0.049		0.049	ug/L		05/22/25 14:50	05/23/25 13:57	1
Heptachlor	<0.0098		0.0098	ug/L		05/22/25 14:50	05/23/25 13:57	1
Heptachlor epoxide (isomer B)	<0.0098		0.0098	ug/L		05/22/25 14:50	05/23/25 13:57	1
Hexachlorobenzene	<0.049		0.049	ug/L		05/22/25 14:50	05/23/25 13:57	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		05/22/25 14:50	05/23/25 13:57	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		05/22/25 14:50	05/23/25 13:57	1
Isophorone	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 13:57	1
Lindane	<0.0098		0.0098	ug/L		05/22/25 14:50	05/23/25 13:57	1
Malathion	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 13:57	1
Methoxychlor	<0.049		0.049	ug/L		05/22/25 14:50	05/23/25 13:57	1
Metolachlor	<0.049		0.049	ug/L		05/22/25 14:50	05/23/25 13:57	1
Molinate	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 13:57	1
Naphthalene	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 13:57	1
Parathion	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 13:57	1
Pendimethalin (Penoxaline)	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 13:57	1
Phenanthrene	<0.039		0.039	ug/L		05/22/25 14:50	05/23/25 13:57	1
Propachlor	<0.049		0.049	ug/L		05/22/25 14:50	05/23/25 13:57	1
Pyrene	<0.049		0.049	ug/L		05/22/25 14:50	05/23/25 13:57	1
Simazine	<0.049		0.049	ug/L		05/22/25 14:50	05/23/25 13:57	1
Terbacil	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 13:57	1
Terbutylazine	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 13:57	1
Thiobencarb	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 13:57	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		05/22/25 14:50	05/23/25 13:57	1
trans-Nonachlor	<0.049		0.049	ug/L		05/22/25 14:50	05/23/25 13:57	1
Trifluralin	<0.098		0.098	ug/L		05/22/25 14:50	05/23/25 13:57	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Cyclopentene, 1,2,3,3,4-pentamethyl-	0.841	T J N	ug/L		2.53	197390-29-7	05/22/25 14:50	05/23/25 13:57	1
Decane	1.31	T J N	ug/L		2.79	124-18-5	05/22/25 14:50	05/23/25 13:57	1
9-Octadecenamide, (Z)-	3.95	T J N	ug/L		7.98	301-02-0	05/22/25 14:50	05/23/25 13:57	1
Unknown	0.857	T J	ug/L		15.78	N/A	05/22/25 14:50	05/23/25 13:57	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	93		70 - 130	05/22/25 14:50	05/23/25 13:57	1
Perylene-d12	70		70 - 130	05/22/25 14:50	05/23/25 13:57	1
Triphenylphosphate	107		70 - 130	05/22/25 14:50	05/23/25 13:57	1

Lab Sample ID: LCS 380-153987/23-A

Matrix: Water

Analysis Batch: 154161

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 153987

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	1.97	1.94		ug/L		99	70 - 130
2,4'-DDD	1.97	2.07		ug/L		106	70 - 130
2,4'-DDE	1.97	2.17		ug/L		110	70 - 130
2,4'-DDT	1.97	1.90		ug/L		96	70 - 130

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QC Sample Results

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

Job ID: 380-151711-1
SDG: Weekly

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

Lab Sample ID: LCS 380-153987/23-A

Matrix: Water

Analysis Batch: 154161

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 153987

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4-Dinitrotoluene	1.97	1.72		ug/L		88	70 - 130
2,6-Dinitrotoluene	1.97	2.01		ug/L		102	70 - 130
2-Methylnaphthalene	1.97	1.98		ug/L		101	70 - 130
4,4'-DDD	1.97	2.02		ug/L		103	70 - 130
4,4'-DDE	1.97	2.31		ug/L		118	70 - 130
4,4'-DDT	1.97	2.00		ug/L		102	70 - 130
Acenaphthene	1.97	2.01		ug/L		103	70 - 130
Acenaphthylene	1.97	1.97		ug/L		100	70 - 130
Acetochlor	1.97	1.96		ug/L		100	70 - 130
Alachlor	1.97	2.25		ug/L		115	70 - 130
alpha-BHC	1.97	2.07		ug/L		105	70 - 130
alpha-Chlordane	1.97	2.15		ug/L		110	70 - 130
Anthracene	1.97	1.88		ug/L		95	70 - 130
Atrazine	1.97	2.12		ug/L		108	70 - 130
Benz(a)anthracene	1.97	2.15		ug/L		110	70 - 130
Benzo[a]pyrene	1.97	2.23		ug/L		114	70 - 130
Benzo[b]fluoranthene	1.97	2.43		ug/L		124	70 - 130
Benzo[g,h,i]perylene	1.97	2.15		ug/L		109	70 - 130
Benzo[k]fluoranthene	1.97	2.33		ug/L		118	70 - 130
beta-BHC	1.97	2.08		ug/L		106	70 - 130
Bis(2-ethylhexyl) phthalate	1.97	2.11		ug/L		108	70 - 130
Bromacil	1.97	1.90		ug/L		97	70 - 130
Butachlor	1.97	2.10		ug/L		107	70 - 130
Butylbenzylphthalate	1.97	2.23		ug/L		113	70 - 130
Chlorobenzilate	1.97	2.09		ug/L		107	70 - 130
Chloroneb	1.97	1.98		ug/L		101	70 - 130
Chlorothalonil (Draconil, Bravo)	1.97	2.12		ug/L		108	70 - 130
Chlorpyrifos	1.97	2.22		ug/L		113	70 - 130
Chrysene	1.97	2.20		ug/L		112	70 - 130
delta-BHC	1.97	2.05		ug/L		104	70 - 130
Di(2-ethylhexyl)adipate	1.97	2.07		ug/L		105	70 - 130
Dibenz(a,h)anthracene	1.97	2.09		ug/L		107	70 - 130
Diclorvos (DDVP)	1.97	1.86		ug/L		95	70 - 130
Dieldrin	1.97	2.09		ug/L		106	70 - 130
Diethylphthalate	1.97	2.08		ug/L		106	70 - 130
Dimethylphthalate	1.97	2.10		ug/L		107	70 - 130
Di-n-butyl phthalate	3.93	3.88		ug/L		99	70 - 130
Di-n-octyl phthalate	1.97	1.97		ug/L		100	70 - 130
Endosulfan I (Alpha)	1.97	1.99		ug/L		101	70 - 130
Endosulfan II (Beta)	1.97	2.10		ug/L		107	70 - 130
Endosulfan sulfate	1.97	2.13		ug/L		108	70 - 130
Endrin	1.97	2.25		ug/L		114	70 - 130
Endrin aldehyde	1.97	2.27		ug/L		115	60 - 130
EPTC	1.97	2.07		ug/L		105	70 - 130
Fluoranthene	1.97	2.19		ug/L		111	70 - 130
Fluorene	1.97	2.18		ug/L		111	70 - 130
gamma-Chlordane	1.97	2.15		ug/L		109	70 - 130
Heptachlor	1.97	2.08		ug/L		106	70 - 130
Heptachlor epoxide (isomer B)	1.97	2.31		ug/L		118	70 - 130

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QC Sample Results

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

Job ID: 380-151711-1
SDG: Weekly

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

Lab Sample ID: LCS 380-153987/23-A

Matrix: Water

Analysis Batch: 154161

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 153987

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Hexachlorobenzene	1.97	2.07		ug/L		105	70 - 130
Hexachlorocyclopentadiene	1.97	1.89		ug/L		96	70 - 130
Indeno[1,2,3-cd]pyrene	1.97	2.19		ug/L		111	70 - 130
Isophorone	1.97	1.84		ug/L		93	70 - 130
Lindane	1.97	2.16		ug/L		110	70 - 130
Malathion	1.97	2.09		ug/L		107	70 - 130
Methoxychlor	1.97	2.11		ug/L		107	70 - 130
Metolachlor	1.97	1.96		ug/L		100	70 - 130
Molinate	1.97	2.09		ug/L		106	70 - 130
Naphthalene	1.97	1.89		ug/L		96	70 - 130
Parathion	1.97	2.04		ug/L		104	70 - 130
Pendimethalin (Penoxaline)	1.97	1.94		ug/L		99	70 - 130
Phenanthrene	1.97	1.98		ug/L		101	70 - 130
Propachlor	1.97	2.15		ug/L		110	70 - 130
Pyrene	1.97	2.08		ug/L		106	70 - 130
Simazine	1.97	1.99		ug/L		101	70 - 130
Terbacil	1.97	2.25		ug/L		114	70 - 130
Terbutylazine	1.97	2.12		ug/L		108	70 - 130
Thiobencarb	1.97	1.97		ug/L		100	70 - 130
trans-Nonachlor	1.97	2.15		ug/L		109	70 - 130
Trifluralin	1.97	1.87		ug/L		95	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Nitro-m-xylene	90		70 - 130
Perylene-d12	95		70 - 130
Triphenylphosphate	114		70 - 130

Lab Sample ID: MRL 380-153987/22-A

Matrix: Water

Analysis Batch: 154161

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 153987

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	0.0985	0.108		ug/L		110	50 - 150
2,4'-DDD	0.0985	0.0900	J	ug/L		91	50 - 150
2,4'-DDE	0.0985	0.105		ug/L		106	50 - 150
2,4'-DDT	0.0985	0.108		ug/L		110	50 - 150
2,4-Dinitrotoluene	0.0985	0.101		ug/L		102	50 - 150
2,6-Dinitrotoluene	0.0985	0.115		ug/L		117	50 - 150
2-Methylnaphthalene	0.0985	0.104		ug/L		106	50 - 150
4,4'-DDD	0.0985	0.112		ug/L		114	50 - 150
4,4'-DDE	0.0985	0.104		ug/L		106	50 - 150
4,4'-DDT	0.0985	0.110		ug/L		111	50 - 150
Acenaphthene	0.0985	0.0952	J	ug/L		97	50 - 150
Acenaphthylene	0.0985	0.0946	J	ug/L		96	50 - 150
Acetochlor	0.0985	0.124		ug/L		125	50 - 150
Alachlor	0.0493	0.0608		ug/L		123	50 - 150
alpha-BHC	0.0985	0.102		ug/L		104	50 - 150
alpha-Chlordane	0.0246	0.0306	J	ug/L		124	50 - 150

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-151711-1
SDG: Weekly

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

Lab Sample ID: MRL 380-153987/22-A

Matrix: Water

Analysis Batch: 154161

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 153987

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Anthracene	0.0197	0.0208		ug/L		106	50 - 150
Atrazine	0.0493	0.0678		ug/L		138	50 - 150
Benz(a)anthracene	0.0493	0.0524		ug/L		106	50 - 150
Benzo[a]pyrene	0.0197	0.0188	J	ug/L		96	50 - 150
Benzo[b]fluoranthene	0.0197	0.0242		ug/L		123	50 - 150
Benzo[g,h,i]perylene	0.0493	0.0543		ug/L		110	50 - 150
Benzo[k]fluoranthene	0.0197	0.0225		ug/L		114	50 - 150
beta-BHC	0.0985	0.105		ug/L		107	50 - 150
Bis(2-ethylhexyl) phthalate	0.591	0.642		ug/L		109	50 - 150
Bromacil	0.0985	0.109		ug/L		110	50 - 150
Butachlor	0.0493	0.0727		ug/L		148	50 - 150
Butylbenzylphthalate	0.493	0.557		ug/L		113	50 - 150
Chlorobenzilate	0.0985	0.110		ug/L		112	50 - 150
Chloroneb	0.0985	0.103		ug/L		105	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0985	0.100		ug/L		102	50 - 150
Chlorpyrifos	0.0493	0.0516		ug/L		105	50 - 150
Chrysene	0.0197	0.0230		ug/L		117	50 - 150
delta-BHC	0.0985	0.0991		ug/L		101	50 - 150
Di(2-ethylhexyl)adipate	0.591	0.600		ug/L		102	50 - 150
Dibenz(a,h)anthracene	0.0493	0.0578		ug/L		117	50 - 150
Diclorvos (DDVP)	0.0493	0.0521		ug/L		106	50 - 150
Dieldrin	0.00985	0.0134		ug/L		136	50 - 150
Diethylphthalate	0.493	0.525		ug/L		107	50 - 150
Dimethylphthalate	0.493	0.534		ug/L		108	50 - 150
Di-n-butyl phthalate	0.493	0.466	J	ug/L		95	49 - 243
Di-n-octyl phthalate	0.0985	0.0966	J	ug/L		98	50 - 150
Endosulfan I (Alpha)	0.0985	0.0976	J	ug/L		99	50 - 150
Endosulfan II (Beta)	0.0985	0.110		ug/L		111	50 - 150
Endosulfan sulfate	0.0985	0.117		ug/L		119	50 - 150
Endrin	0.00985	0.0108		ug/L		110	50 - 150
Endrin aldehyde	0.0985	0.133		ug/L		135	50 - 150
EPTC	0.0985	0.0991		ug/L		101	50 - 150
Fluoranthene	0.0985	0.110		ug/L		111	50 - 150
Fluorene	0.0493	0.0528		ug/L		107	50 - 150
gamma-Chlordane	0.0246	0.0339	J	ug/L		138	50 - 150
Heptachlor	0.00985	0.0115		ug/L		117	50 - 150
Heptachlor epoxide (isomer B)	0.00985	0.0127		ug/L		129	50 - 150
Hexachlorobenzene	0.0493	0.0510		ug/L		104	50 - 150
Hexachlorocyclopentadiene	0.0493	<0.037		ug/L		74	50 - 150
Indeno[1,2,3-cd]pyrene	0.0493	0.0618		ug/L		125	50 - 150
Isophorone	0.0985	0.112		ug/L		114	50 - 150
Lindane	0.00985	0.0139		ug/L		141	50 - 150
Malathion	0.0985	0.115		ug/L		116	50 - 150
Methoxychlor	0.0493	0.0701		ug/L		142	50 - 150
Metolachlor	0.0493	0.0654		ug/L		133	50 - 150
Molinate	0.0985	0.105		ug/L		106	50 - 150
Naphthalene	0.0985	0.102		ug/L		104	50 - 150
Parathion	0.0985	0.101		ug/L		103	50 - 150
Pendimethalin (Penoxaline)	0.0985	0.102		ug/L		104	50 - 150

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-151711-1
SDG: Weekly

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

Lab Sample ID: MRL 380-153987/22-A

Matrix: Water

Analysis Batch: 154161

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 153987

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Phenanthrene	0.0394	0.0465		ug/L		118	50 - 150
Propachlor	0.0493	0.0523		ug/L		106	50 - 150
Pyrene	0.0493	0.0632		ug/L		128	50 - 150
Simazine	0.0493	0.0631		ug/L		128	50 - 150
Terbacil	0.0985	0.103		ug/L		105	50 - 150
Terbutylazine	0.0985	0.111		ug/L		112	50 - 150
Thiobencarb	0.0985	0.108		ug/L		110	50 - 150
trans-Nonachlor	0.0246	0.0318	J	ug/L		129	50 - 150
Trifluralin	0.0985	0.103		ug/L		105	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
2-Nitro-m-xylene	91		70 - 130
Perylene-d12	88		70 - 130
Triphenylphosphate	106		70 - 130

Lab Sample ID: 380-151033-O-1-A MS

Matrix: Water

Analysis Batch: 154161

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 153987

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.098		1.97	2.00		ug/L		101	70 - 130
2,4'-DDD	<0.098		1.97	1.91		ug/L		97	70 - 130
2,4'-DDE	<0.098		1.97	1.81		ug/L		92	70 - 130
2,4'-DDT	<0.098		1.97	1.47		ug/L		75	70 - 130
2,4-Dinitrotoluene	<0.098		1.97	1.74		ug/L		88	70 - 130
2,6-Dinitrotoluene	<0.098		1.97	2.11		ug/L		107	70 - 130
2-Methylnaphthalene	<0.098		1.97	2.01		ug/L		102	70 - 130
4,4'-DDD	<0.098		1.97	1.83		ug/L		93	70 - 130
4,4'-DDE	<0.098		1.97	1.74		ug/L		88	70 - 130
4,4'-DDT	<0.098		1.97	1.45		ug/L		74	70 - 130
Acenaphthene	<0.098		1.97	2.05		ug/L		104	70 - 130
Acenaphthylene	<0.098		1.97	1.97		ug/L		100	70 - 130
Acetochlor	<0.098		1.97	1.99		ug/L		101	70 - 130
Alachlor	<0.049		1.97	2.23		ug/L		113	70 - 130
alpha-BHC	<0.098		1.97	2.04		ug/L		104	70 - 130
alpha-Chlordane	<0.049		1.97	2.04		ug/L		103	70 - 130
Anthracene	<0.020		1.97	1.81		ug/L		92	70 - 130
Atrazine	<0.049		1.97	2.01		ug/L		102	70 - 130
Benz(a)anthracene	<0.049		1.97	1.71		ug/L		87	70 - 130
Benzo[a]pyrene	<0.020	*3 F1	1.97	3.44	*3 F1	ug/L		175	70 - 130
Benzo[b]fluoranthene	<0.020	*3 F1	1.97	4.70	*3 F1	ug/L		239	70 - 130
Benzo[g,h,i]perylene	<0.049	*3	1.97	2.01	*3	ug/L		102	70 - 130
Benzo[k]fluoranthene	<0.020	*3 F1	1.97	3.07	*3 F1	ug/L		156	70 - 130
beta-BHC	<0.098		1.97	1.99		ug/L		101	70 - 130
Bis(2-ethylhexyl) phthalate	<0.59	*3	1.97	1.74	*3	ug/L		88	70 - 130
Bromacil	<0.098		1.97	1.77		ug/L		90	70 - 130
Butachlor	<0.049		1.97	2.07		ug/L		105	70 - 130
Butylbenzylphthalate	<0.49		1.97	2.18		ug/L		111	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-151711-1
SDG: Weekly

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

Lab Sample ID: 380-151033-O-1-A MS

Matrix: Water

Analysis Batch: 154161

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 153987

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chlorobenzilate	<0.098		1.97	2.07		ug/L		105	70 - 130
Chloroneb	<0.098		1.97	1.94		ug/L		99	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.098		1.97	2.06		ug/L		105	70 - 130
Chlorpyrifos	<0.049		1.97	2.25		ug/L		115	70 - 130
Chrysene	<0.020	*3 F1	1.97	2.68	*3 F1	ug/L		136	70 - 130
delta-BHC	<0.098		1.97	2.01		ug/L		102	70 - 130
Di(2-ethylhexyl)adipate	<0.59	F1	1.97	0.990	F1	ug/L		50	70 - 130
Dibenz(a,h)anthracene	<0.049	*3	1.97	1.66	*3	ug/L		84	70 - 130
Diclorvos (DDVP)	<0.049		1.97	1.94		ug/L		99	70 - 130
Dieldrin	<0.0098		1.97	2.04		ug/L		104	70 - 130
Diethylphthalate	<0.49		1.97	2.05		ug/L		104	70 - 130
Dimethylphthalate	<0.49		1.97	2.10		ug/L		107	70 - 130
Di-n-butyl phthalate	<0.98		3.94	3.79		ug/L		96	70 - 130
Di-n-octyl phthalate	<0.098	*3 F1	1.97	1.31	*3 F1	ug/L		67	70 - 130
Endosulfan I (Alpha)	<0.098		1.97	1.96		ug/L		100	70 - 130
Endosulfan II (Beta)	<0.098		1.97	2.05		ug/L		104	70 - 130
Endosulfan sulfate	<0.098		1.97	2.10		ug/L		107	70 - 130
Endrin	<0.0098		1.97	2.21		ug/L		112	70 - 130
Endrin aldehyde	<0.098		1.97	2.07		ug/L		105	60 - 130
EPTC	<0.098		1.97	2.12		ug/L		108	70 - 130
Fluoranthene	<0.098		1.97	2.16		ug/L		110	70 - 130
Fluorene	<0.049		1.97	2.14		ug/L		109	70 - 130
gamma-Chlordane	<0.049		1.97	1.97		ug/L		100	70 - 130
Heptachlor	<0.0098		1.97	2.10		ug/L		107	70 - 130
Heptachlor epoxide (isomer B)	<0.0098		1.97	2.31		ug/L		117	70 - 130
Hexachlorobenzene	<0.049		1.97	2.06		ug/L		105	70 - 130
Hexachlorocyclopentadiene	<0.049		1.97	1.98		ug/L		100	70 - 130
Indeno[1,2,3-cd]pyrene	<0.049	*3	1.97	2.19	*3	ug/L		111	70 - 130
Isophorone	<0.098		1.97	1.92		ug/L		98	70 - 130
Lindane	<0.0098		1.97	2.10		ug/L		107	70 - 130
Malathion	<0.098		1.97	2.08		ug/L		106	70 - 130
Methoxychlor	<0.049	*3 F1	1.97	5.44	*3 F1	ug/L		277	70 - 130
Metolachlor	<0.049		1.97	1.97		ug/L		100	70 - 130
Molinate	<0.098		1.97	2.10		ug/L		107	70 - 130
Naphthalene	<0.098		1.97	1.93		ug/L		98	70 - 130
Parathion	<0.098		1.97	2.00		ug/L		102	70 - 130
Pendimethalin (Penoxaline)	<0.098		1.97	1.85		ug/L		94	70 - 130
Phenanthrene	<0.039		1.97	2.01		ug/L		102	70 - 130
Propachlor	<0.049		1.97	2.09		ug/L		106	70 - 130
Pyrene	<0.049		1.97	2.04		ug/L		104	70 - 130
Simazine	<0.049		1.97	1.91		ug/L		97	70 - 130
Terbacil	<0.098		1.97	2.16		ug/L		110	70 - 130
Terbutylazine	<0.098		1.97	2.04		ug/L		104	70 - 130
Thiobencarb	<0.098		1.97	1.96		ug/L		99	70 - 130
trans-Nonachlor	<0.049		1.97	1.96		ug/L		100	70 - 130
Trifluralin	<0.098		1.97	1.79		ug/L		91	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-151711-1
SDG: Weekly

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

Lab Sample ID: 380-151033-O-1-A MS

Matrix: Water

Analysis Batch: 154161

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 153987

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
2-Nitro-m-xylene	92		70 - 130
Perylene-d12	64	*3 S1-	70 - 130
Triphenylphosphate	114		70 - 130

Lab Sample ID: 380-151659-K-1-A DU

Matrix: Water

Analysis Batch: 154161

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 153987

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

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-151711-1
SDG: Weekly

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

Lab Sample ID: 380-151659-K-1-A DU

Matrix: Water

Analysis Batch: 154161

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 153987

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Dimethylphthalate	<0.49		<0.49		ug/L		NC	20
Di-n-butyl phthalate	<0.98		<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
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	DU %Recovery	DU Qualifier	Limits
2-Nitro-m-xylene	91		70 - 130
Perylene-d12	88		70 - 130
Triphenylphosphate	108		70 - 130

QC Sample Results

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

Job ID: 380-151711-1
SDG: Weekly

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

Lab Sample ID: MB 570-575026/1-A
Matrix: Water
Analysis Batch: 579411

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 575026

<i>Tentatively Identified Compound</i>	<i>Est. Result</i>	<i>MB MB Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>RT</i>	<i>CAS No.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Tentatively Identified Compound</i>	<i>None</i>		<i>ug/L</i>			<i>N/A</i>	<i>05/23/25 09:56</i>	<i>06/04/25 13:05</i>	<i>1</i>
<i>Surrogate</i>	<i>%Recovery</i>	<i>MB MB Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
2,4,6-Tribromophenol (Surr)	60		33 - 139				05/23/25 09:56	06/04/25 13:05	1
2-Fluorobiphenyl (Surr)	61		33 - 126				05/23/25 09:56	06/04/25 13:05	1
2-Fluorophenol (Surr)	48		12 - 120				05/23/25 09:56	06/04/25 13:05	1
Nitrobenzene-d5 (Surr)	76		36 - 120				05/23/25 09:56	06/04/25 13:05	1
Phenol-d6 (Surr)	28		10 - 120				05/23/25 09:56	06/04/25 13:05	1
p-Terphenyl-d14 (Surr)	67		47 - 131				05/23/25 09:56	06/04/25 13:05	1

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

Lab Sample ID: MB 570-575026/1-A
Matrix: Water
Analysis Batch: 579367

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 575026

<i>Analyte</i>	<i>Result</i>	<i>MB MB Qualifier</i>	<i>RL</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1-Methylnaphthalene	<0.20		0.20	ug/L		05/23/25 09:56	06/04/25 13:06	1
2-Methylnaphthalene	<0.20		0.20	ug/L		05/23/25 09:56	06/04/25 13:06	1
Acenaphthene	<0.20		0.20	ug/L		05/23/25 09:56	06/04/25 13:06	1
Acenaphthylene	<0.20		0.20	ug/L		05/23/25 09:56	06/04/25 13:06	1
Anthracene	<0.20		0.20	ug/L		05/23/25 09:56	06/04/25 13:06	1
Benzo[a]anthracene	<0.20		0.20	ug/L		05/23/25 09:56	06/04/25 13:06	1
Benzo[a]pyrene	<0.20		0.20	ug/L		05/23/25 09:56	06/04/25 13:06	1
Benzo[b]fluoranthene	<0.20		0.20	ug/L		05/23/25 09:56	06/04/25 13:06	1
Benzo[g,h,i]perylene	<0.20		0.20	ug/L		05/23/25 09:56	06/04/25 13:06	1
Benzo[k]fluoranthene	<0.20		0.20	ug/L		05/23/25 09:56	06/04/25 13:06	1
Chrysene	<0.20		0.20	ug/L		05/23/25 09:56	06/04/25 13:06	1
Dibenz(a,h)anthracene	<0.20		0.20	ug/L		05/23/25 09:56	06/04/25 13:06	1
Fluoranthene	<0.20		0.20	ug/L		05/23/25 09:56	06/04/25 13:06	1
Fluorene	<0.20		0.20	ug/L		05/23/25 09:56	06/04/25 13:06	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20	ug/L		05/23/25 09:56	06/04/25 13:06	1
Naphthalene	<0.20		0.20	ug/L		05/23/25 09:56	06/04/25 13:06	1
Phenanthrene	<0.20		0.20	ug/L		05/23/25 09:56	06/04/25 13:06	1
Pyrene	<0.20		0.20	ug/L		05/23/25 09:56	06/04/25 13:06	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>MB MB Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
2,4,6-Tribromophenol (Surr)	75		28 - 127			05/23/25 09:56	06/04/25 13:06	1
2-Fluorobiphenyl (Surr)	66		31 - 120			05/23/25 09:56	06/04/25 13:06	1
2-Fluorophenol (Surr)	43		17 - 120			05/23/25 09:56	06/04/25 13:06	1
Nitrobenzene-d5 (Surr)	67		27 - 120			05/23/25 09:56	06/04/25 13:06	1
Phenol-d6 (Surr)	27		10 - 120			05/23/25 09:56	06/04/25 13:06	1
p-Terphenyl-d14 (Surr)	76		45 - 120			05/23/25 09:56	06/04/25 13:06	1

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-151711-1
SDG: Weekly

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

Lab Sample ID: LCS 570-575026/2-A

Matrix: Water

Analysis Batch: 579367

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 575026

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	20.0	18.8		ug/L		94	47 - 120
2-Methylnaphthalene	20.0	20.7		ug/L		103	43 - 120
Acenaphthene	20.0	21.4		ug/L		107	60 - 132
Acenaphthylene	20.0	20.3		ug/L		101	54 - 126
Anthracene	20.0	22.0		ug/L		110	43 - 120
Benzo[a]anthracene	20.0	22.7		ug/L		114	42 - 133
Benzo[a]pyrene	20.0	23.5		ug/L		118	32 - 148
Benzo[b]fluoranthene	20.0	23.6		ug/L		118	42 - 140
Benzo[g,h,i]perylene	20.0	23.5		ug/L		118	1 - 195
Benzo[k]fluoranthene	20.0	23.6		ug/L		118	25 - 146
Chrysene	20.0	21.9		ug/L		109	44 - 140
Dibenz(a,h)anthracene	20.0	24.1		ug/L		121	1 - 200
Fluoranthene	20.0	21.9		ug/L		109	43 - 121
Fluorene	20.0	21.5		ug/L		108	70 - 120
Indeno[1,2,3-cd]pyrene	20.0	24.0		ug/L		120	1 - 151
Naphthalene	20.0	18.2		ug/L		91	36 - 120
Phenanthrene	20.0	20.9		ug/L		105	65 - 120
Pyrene	20.0	22.1		ug/L		110	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	95		28 - 127
2-Fluorobiphenyl (Surr)	84		31 - 120
2-Fluorophenol (Surr)	59		17 - 120
Nitrobenzene-d5 (Surr)	71		27 - 120
Phenol-d6 (Surr)	40		10 - 120
p-Terphenyl-d14 (Surr)	89		45 - 120

Lab Sample ID: LCSD 570-575026/3-A

Matrix: Water

Analysis Batch: 579367

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 575026

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	20.0	18.7		ug/L		93	47 - 120	1	20
2-Methylnaphthalene	20.0	20.3		ug/L		102	43 - 120	2	20
Acenaphthene	20.0	20.9		ug/L		104	60 - 132	3	29
Acenaphthylene	20.0	19.4		ug/L		97	54 - 126	4	45
Anthracene	20.0	21.7		ug/L		108	43 - 120	1	40
Benzo[a]anthracene	20.0	22.1		ug/L		111	42 - 133	3	32
Benzo[a]pyrene	20.0	22.3		ug/L		112	32 - 148	5	43
Benzo[b]fluoranthene	20.0	22.7		ug/L		114	42 - 140	4	43
Benzo[g,h,i]perylene	20.0	21.6		ug/L		108	1 - 195	8	61
Benzo[k]fluoranthene	20.0	22.0		ug/L		110	25 - 146	7	38
Chrysene	20.0	21.4		ug/L		107	44 - 140	2	53
Dibenz(a,h)anthracene	20.0	22.3		ug/L		112	1 - 200	8	75
Fluoranthene	20.0	22.2		ug/L		111	43 - 121	2	40
Fluorene	20.0	20.9		ug/L		105	70 - 120	3	23
Indeno[1,2,3-cd]pyrene	20.0	22.6		ug/L		113	1 - 151	6	60
Naphthalene	20.0	18.1		ug/L		90	36 - 120	1	39

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-151711-1
SDG: Weekly

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

Lab Sample ID: LCSD 570-575026/3-A

Matrix: Water

Analysis Batch: 579367

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 575026

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenanthrene	20.0	20.8		ug/L		104	65 - 120	1	24
Pyrene	20.0	21.3		ug/L		107	70 - 120	3	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
2,4,6-Tribromophenol (Surr)	87		28 - 127
2-Fluorobiphenyl (Surr)	82		31 - 120
2-Fluorophenol (Surr)	59		17 - 120
Nitrobenzene-d5 (Surr)	68		27 - 120
Phenol-d6 (Surr)	39		10 - 120
p-Terphenyl-d14 (Surr)	85		45 - 120

Lab Sample ID: 380-151743-C-1-A MS

Matrix: Water

Analysis Batch: 579367

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 575026

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.19		19.5	19.0		ug/L		98	36 - 120
2-Methylnaphthalene	<0.19		19.5	20.5		ug/L		105	32 - 124
Acenaphthene	<0.19		19.5	20.3		ug/L		104	47 - 145
Acenaphthylene	<0.19		19.5	18.8		ug/L		96	33 - 145
Anthracene	<0.19		19.5	21.4		ug/L		110	27 - 133
Benzo[a]anthracene	<0.19		19.5	21.4		ug/L		110	33 - 143
Benzo[a]pyrene	<0.19		19.5	22.3		ug/L		115	17 - 163
Benzo[b]fluoranthene	<0.19		19.5	22.5		ug/L		115	24 - 159
Benzo[g,h,i]perylene	<0.19		19.5	21.7		ug/L		111	1 - 219
Benzo[k]fluoranthene	<0.19		19.5	22.3		ug/L		114	11 - 162
Chrysene	<0.19		19.5	20.6		ug/L		106	17 - 168
Dibenz(a,h)anthracene	<0.19		19.5	22.2		ug/L		114	1 - 227
Fluoranthene	<0.19		19.5	21.7		ug/L		111	26 - 137
Fluorene	<0.19		19.5	20.3		ug/L		104	59 - 121
Indeno[1,2,3-cd]pyrene	<0.19		19.5	21.9		ug/L		112	1 - 171
Naphthalene	<0.19		19.5	18.3		ug/L		94	21 - 133
Phenanthrene	<0.19		19.5	20.5		ug/L		105	54 - 120
Pyrene	<0.19		19.5	21.2		ug/L		109	52 - 120

Surrogate	MS %Recovery	MS Qualifier	MS Limits
2,4,6-Tribromophenol (Surr)	89		28 - 127
2-Fluorobiphenyl (Surr)	81		31 - 120
2-Fluorophenol (Surr)	56		17 - 120
Nitrobenzene-d5 (Surr)	71		27 - 120
Phenol-d6 (Surr)	38		10 - 120
p-Terphenyl-d14 (Surr)	88		45 - 120

QC Sample Results

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

Job ID: 380-151711-1
SDG: Weekly

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

Lab Sample ID: 380-151743-C-1-B MSD

Matrix: Water

Analysis Batch: 579367

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 575026

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	<0.19		19.7	18.1		ug/L		92	36 - 120	5	30
2-Methylnaphthalene	<0.19		19.7	19.5		ug/L		99	32 - 124	5	30
Acenaphthene	<0.19		19.7	19.0		ug/L		97	47 - 145	6	48
Acenaphthylene	<0.19		19.7	18.0		ug/L		91	33 - 145	5	74
Anthracene	<0.19		19.7	19.5		ug/L		99	27 - 133	9	66
Benzo[a]anthracene	<0.19		19.7	20.7		ug/L		105	33 - 143	3	53
Benzo[a]pyrene	<0.19		19.7	20.4		ug/L		104	17 - 163	9	72
Benzo[b]fluoranthene	<0.19		19.7	20.6		ug/L		105	24 - 159	9	71
Benzo[g,h,i]perylene	<0.19		19.7	21.0		ug/L		107	1 - 219	3	97
Benzo[k]fluoranthene	<0.19		19.7	20.5		ug/L		104	11 - 162	8	63
Chrysene	<0.19		19.7	19.3		ug/L		98	17 - 168	7	87
Dibenz(a,h)anthracene	<0.19		19.7	21.0		ug/L		107	1 - 227	5	126
Fluoranthene	<0.19		19.7	21.4		ug/L		109	26 - 137	1	66
Fluorene	<0.19		19.7	19.6		ug/L		100	59 - 121	3	38
Indeno[1,2,3-cd]pyrene	<0.19		19.7	21.6		ug/L		110	1 - 171	1	99
Naphthalene	<0.19		19.7	17.3		ug/L		88	21 - 133	5	65
Phenanthrene	<0.19		19.7	19.2		ug/L		98	54 - 120	6	39
Pyrene	<0.19		19.7	20.3		ug/L		103	52 - 120	4	49

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	82		28 - 127
2-Fluorobiphenyl (Surr)	75		31 - 120
2-Fluorophenol (Surr)	54		17 - 120
Nitrobenzene-d5 (Surr)	67		27 - 120
Phenol-d6 (Surr)	35		10 - 120
p-Terphenyl-d14 (Surr)	83		45 - 120

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

Lab Sample ID: MB 570-576992/6

Matrix: Water

Analysis Batch: 576992

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			05/29/25 12:24	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		38 - 134		05/29/25 12:24	1

Lab Sample ID: LCS 570-576992/4

Matrix: Water

Analysis Batch: 576992

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (C4-C13)	400	346		ug/L		87	78 - 120

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-151711-1
SDG: Weekly

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

Lab Sample ID: LCS 570-576992/4

Matrix: Water

Analysis Batch: 576992

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	87		38 - 134

Lab Sample ID: LCSD 570-576992/5

Matrix: Water

Analysis Batch: 576992

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	355		ug/L		89	78 - 120	2	10

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	88		38 - 134

Lab Sample ID: MRL 570-576992/3

Matrix: Water

Analysis Batch: 576992

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	10.6		ug/L		106	50 - 150		

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

Lab Sample ID: 380-151402-C-1 MS

Matrix: Water

Analysis Batch: 576992

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	368		ug/L		92	68 - 122		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	87		38 - 134

Lab Sample ID: 380-151402-C-1 MSD

Matrix: Water

Analysis Batch: 576992

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	378		ug/L		95	68 - 122	3	18

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	86		38 - 134

QC Sample Results

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

Job ID: 380-151711-1
SDG: Weekly

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

Lab Sample ID: 380-151743-A-1 MS

Matrix: Water

Analysis Batch: 576992

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	392		ug/L		98	68 - 122		
Surrogate	%Recovery	MS Qualifier	MS Limits								
4-Bromofluorobenzene (Surr)	85		38 - 134								

Lab Sample ID: 380-151743-A-1 MSD

Matrix: Water

Analysis Batch: 576992

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (C4-C13)	<10		400	383		ug/L		96	68 - 122	2	18
Surrogate	%Recovery	MSD Qualifier	MSD Limits								
4-Bromofluorobenzene (Surr)	88		38 - 134								

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

Lab Sample ID: MB 570-574445/1-A

Matrix: Water

Analysis Batch: 575632

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 574445

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<25		25	ug/L		05/22/25 09:19	05/25/25 04:46	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		05/22/25 09:19	05/25/25 04:46	1
C8-C18	<25		25	ug/L		05/22/25 09:19	05/25/25 04:46	1
Surrogate	%Recovery	MB Qualifier	MB Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	103		60 - 130			05/22/25 09:19	05/25/25 04:46	1

Lab Sample ID: LCS 570-574445/2-A

Matrix: Water

Analysis Batch: 575632

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 574445

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
C10-C28	1600	1360		ug/L		85	56 - 127		
Surrogate	%Recovery	LCS Qualifier	LCS Limits						
n-Octacosane (Surr)	110		60 - 130						

Lab Sample ID: LCSD 570-574445/3-A

Matrix: Water

Analysis Batch: 575632

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 574445

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28	1600	1600		ug/L		100	56 - 127	16	23

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-151711-1
SDG: Weekly

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

Lab Sample ID: LCSD 570-574445/3-A

Matrix: Water

Analysis Batch: 575632

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 574445

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
n-Octacosane (Surr)	106		60 - 130

Lab Sample ID: MRL 570-574445/4-A

Matrix: Water

Analysis Batch: 575632

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 574445

	Spike	MRL	MRL						%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits			
C10-C28	0.0200	0.0307	^3+	mg/L		154	50 - 150			

	MRL	MRL	
Surrogate	%Recovery	Qualifier	Limits
n-Octacosane (Surr)	119		60 - 130

Lab Sample ID: 380-151743-B-1-A MS

Matrix: Water

Analysis Batch: 575632

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 574445

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
C10-C28	<26	^3+	1660	1570		ug/L		95	70 - 130	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
n-Octacosane (Surr)	85		60 - 130

Lab Sample ID: 380-151743-B-1-B MSD

Matrix: Water

Analysis Batch: 575632

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 574445

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
C10-C28	<26	^3+	1650	1860		ug/L		112	70 - 130	17	20	

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
n-Octacosane (Surr)	99		60 - 130

QC Association Summary

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

Job ID: 380-151711-1
SDG: Weekly

GC/MS Semi VOA

Prep Batch: 153987

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-151711-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	525.2	
380-151711-2	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	525.2	
MB 380-153987/21-A	Method Blank	Total/NA	Water	525.2	
LCS 380-153987/23-A	Lab Control Sample	Total/NA	Water	525.2	
MRL 380-153987/22-A	Lab Control Sample	Total/NA	Water	525.2	
380-151033-O-1-A MS	Matrix Spike	Total/NA	Water	525.2	
380-151659-K-1-A DU	Duplicate	Total/NA	Water	525.2	

Analysis Batch: 154161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-151711-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	525.2	153987
380-151711-2	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	525.2	153987
MB 380-153987/21-A	Method Blank	Total/NA	Water	525.2	153987
LCS 380-153987/23-A	Lab Control Sample	Total/NA	Water	525.2	153987
MRL 380-153987/22-A	Lab Control Sample	Total/NA	Water	525.2	153987
380-151033-O-1-A MS	Matrix Spike	Total/NA	Water	525.2	153987
380-151659-K-1-A DU	Duplicate	Total/NA	Water	525.2	153987

Prep Batch: 575026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-151711-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	625.1	
380-151711-2	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	625.1	
MB 570-575026/1-A	Method Blank	Total/NA	Water	625.1	
LCS 570-575026/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 570-575026/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	
380-151743-C-1-A MS	Matrix Spike	Total/NA	Water	625.1	
380-151743-C-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	625.1	

Analysis Batch: 579367

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-151711-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	625.1 SIM	575026
380-151711-2	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	625.1 SIM	575026
MB 570-575026/1-A	Method Blank	Total/NA	Water	625.1 SIM	575026
LCS 570-575026/2-A	Lab Control Sample	Total/NA	Water	625.1 SIM	575026
LCSD 570-575026/3-A	Lab Control Sample Dup	Total/NA	Water	625.1 SIM	575026
380-151743-C-1-A MS	Matrix Spike	Total/NA	Water	625.1 SIM	575026
380-151743-C-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	625.1 SIM	575026

Analysis Batch: 579411

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-151711-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	625.1	575026
380-151711-2	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	625.1	575026
MB 570-575026/1-A	Method Blank	Total/NA	Water	625.1	575026

GC VOA

Analysis Batch: 576992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-151711-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	8015B GRO LL	
380-151711-2	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	8015B GRO LL	
380-151711-3	TB: AIEA GULCH WELLS PUMP 1	Total/NA	Water	8015B GRO LL	

Eurofins Eaton Analytical Pomona

QC Association Summary

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

Job ID: 380-151711-1
SDG: Weekly

GC VOA (Continued)

Analysis Batch: 576992 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-151711-4	TB: AIEA GULCH WELLS PUMP 2	Total/NA	Water	8015B GRO LL	
MB 570-576992/6	Method Blank	Total/NA	Water	8015B GRO LL	
LCS 570-576992/4	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-576992/5	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	
MRL 570-576992/3	Lab Control Sample	Total/NA	Water	8015B GRO LL	
380-151402-C-1 MS	Matrix Spike	Total/NA	Water	8015B GRO LL	
380-151402-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8015B GRO LL	
380-151743-A-1 MS	Matrix Spike	Total/NA	Water	8015B GRO LL	
380-151743-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8015B GRO LL	

GC Semi VOA

Prep Batch: 574445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-151711-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	3510C	
380-151711-2	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	3510C	
MB 570-574445/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-574445/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-574445/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-574445/4-A	Lab Control Sample	Total/NA	Water	3510C	
380-151743-B-1-A MS	Matrix Spike	Total/NA	Water	3510C	
380-151743-B-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

Analysis Batch: 575632

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-151711-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	8015B	574445
380-151711-2	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	8015B	574445
MB 570-574445/1-A	Method Blank	Total/NA	Water	8015B	574445
LCS 570-574445/2-A	Lab Control Sample	Total/NA	Water	8015B	574445
LCSD 570-574445/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	574445
MRL 570-574445/4-A	Lab Control Sample	Total/NA	Water	8015B	574445
380-151743-B-1-A MS	Matrix Spike	Total/NA	Water	8015B	574445
380-151743-B-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	8015B	574445

Lab Chronicle

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

Job ID: 380-151711-1
SDG: Weekly

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

Lab Sample ID: 380-151711-1

Date Collected: 05/19/25 11:04

Matrix: Drinking Water

Date Received: 05/21/25 09:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			153987	IQ42	EA POM	05/22/25 14:50
Total/NA	Analysis	525.2		1	154161	UPAC	EA POM	05/23/25 14:57
Total/NA	Prep	625.1			575026	OAJ3	EET CAL 4	05/23/25 09:56
Total/NA	Analysis	625.1		1	579411	CG	EET CAL 4	06/04/25 13:52
Total/NA	Prep	625.1			575026	OAJ3	EET CAL 4	05/23/25 09:56
Total/NA	Analysis	625.1 SIM		1	579367	J7WE	EET CAL 4	06/04/25 15:21
Total/NA	Analysis	8015B GRO LL		1	576992	A9VE	EET CAL 4	05/29/25 18:46
Total/NA	Prep	3510C			574445	TVD6	EET CAL 4	05/23/25 09:09
Total/NA	Analysis	8015B		1	575632	H6FE	EET CAL 4	05/25/25 09:20

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

Lab Sample ID: 380-151711-2

Date Collected: 05/19/25 11:23

Matrix: Drinking Water

Date Received: 05/21/25 09:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			153987	IQ42	EA POM	05/22/25 14:50
Total/NA	Analysis	525.2		1	154161	UPAC	EA POM	05/23/25 15:17
Total/NA	Prep	625.1			575026	OAJ3	EET CAL 4	05/23/25 09:56
Total/NA	Analysis	625.1		1	579411	CG	EET CAL 4	06/04/25 14:15
Total/NA	Prep	625.1			575026	OAJ3	EET CAL 4	05/23/25 09:56
Total/NA	Analysis	625.1 SIM		1	579367	J7WE	EET CAL 4	06/04/25 15:43
Total/NA	Analysis	8015B GRO LL		1	576992	A9VE	EET CAL 4	05/29/25 19:11
Total/NA	Prep	3510C			574445	TVD6	EET CAL 4	05/23/25 09:09
Total/NA	Analysis	8015B		1	575632	H6FE	EET CAL 4	05/25/25 09:41

Client Sample ID: TB: AIEA GULCH WELLS PUMP 1

Lab Sample ID: 380-151711-3

Date Collected: 05/19/25 11:04

Matrix: Water

Date Received: 05/21/25 09:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	576992	A9VE	EET CAL 4	05/29/25 13:32

Client Sample ID: TB: AIEA GULCH WELLS PUMP 2

Lab Sample ID: 380-151711-4

Date Collected: 05/19/25 11:23

Matrix: Water

Date Received: 05/21/25 09:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	576992	A9VE	EET CAL 4	05/29/25 17:32

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

Eurofins Eaton Analytical Pomona

Accreditation/Certification Summary

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

Job ID: 380-151711-1
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: 380-151711-1
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: 380-151711-1
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: 380-151711-1
SDG: Weekly

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	PWSID Number
380-151711-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Drinking Water	05/19/25 11:04	05/21/25 09:52	HI0000331
380-151711-2	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Drinking Water	05/19/25 11:23	05/21/25 09:52	HI0000331
380-151711-3	TB: AIEA GULCH WELLS PUMP 1	Water	05/19/25 11:04	05/21/25 09:52	
380-151711-4	TB: AIEA GULCH WELLS PUMP 2	Water	05/19/25 11:23	05/21/25 09:52	

Chain of Custody Record

[illegible]

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-151711-1

SDG Number: Weekly

Login Number: 151711

List Source: Eurofins Eaton Analytical Pomona

List Number: 1

Creator: Hernandez, Orlando

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

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-151711-1

SDG Number: Weekly

Login Number: 151711

List Number: 2

Creator: Khana, Piyush

List Source: Eurofins Calscience

List Creation: 05/22/25 02:00 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	1.9
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	