

ANALYTICAL REPORT

PREPARED FOR

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JOB DESCRIPTION

RED-HILL
Weekly
RUSH Weekly Red Hill

JOB NUMBER

380-131757-1

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: 380-131757-1
SDG: Weekly

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA TICs

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

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: 380-131757-1

Job ID: 380-131757-1

Eurofins Eaton Analytical Pomona

Job Narrative 380-131757-1

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 1/23/2025 9:37 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 1.6°C, 2.5°C and 3.4°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

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

Detection Summary

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

Job ID: 380-131757-1
SDG: Weekly

**Client Sample ID: HALAWA WELLS UNITS 1 & 2 P1
(331-206-TP065)**

Lab Sample ID: 380-131757-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Dieldrin	0.044		0.0097	ug/L	1		525.2	Total/NA
Heptachlor epoxide (isomer B)	0.018		0.0097	ug/L	1		525.2	Total/NA

**Client Sample ID: AIEA WELLS PUMPS 1&2 P2 (260)
(331-203-TP400)**

Lab Sample ID: 380-131757-2

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Dieldrin	0.011		0.0096	ug/L	1		525.2	Total/NA

**Client Sample ID: TB: HALAWA WELLS UNITS 1&2
(331-206-TP065)**

Lab Sample ID: 380-131757-3

No Detections.

**Client Sample ID: TB: AIEA WELLS PUMPS 1&2 (260)
(331-203-TP400)**

Lab Sample ID: 380-131757-4

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: 380-131757-1
SDG: Weekly

**Client Sample ID: HALAWA WELLS UNITS 1 & 2 P1
(331-206-TP065)**

Lab Sample ID: 380-131757-1

Date Collected: 01/21/25 09:50

Matrix: Drinking Water

Date Received: 01/23/25 09:37

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.097		0.097	ug/L		01/24/25 09:25	01/26/25 21:17	1
2,4'-DDD	<0.097		0.097	ug/L		01/24/25 09:25	01/26/25 21:17	1
2,4'-DDE	<0.097		0.097	ug/L		01/24/25 09:25	01/26/25 21:17	1
2,4'-DDT	<0.097		0.097	ug/L		01/24/25 09:25	01/26/25 21:17	1
2,4-Dinitrotoluene	<0.097		0.097	ug/L		01/24/25 09:25	01/26/25 21:17	1
2,6-Dinitrotoluene	<0.097		0.097	ug/L		01/24/25 09:25	01/26/25 21:17	1
2-Methylnaphthalene	<0.097		0.097	ug/L		01/24/25 09:25	01/26/25 21:17	1
4,4'-DDD	<0.097		0.097	ug/L		01/24/25 09:25	01/26/25 21:17	1
4,4'-DDE	<0.097		0.097	ug/L		01/24/25 09:25	01/26/25 21:17	1
4,4'-DDT	<0.097		0.097	ug/L		01/24/25 09:25	01/26/25 21:17	1
Acenaphthene	<0.097		0.097	ug/L		01/24/25 09:25	01/26/25 21:17	1
Acenaphthylene	<0.097		0.097	ug/L		01/24/25 09:25	01/26/25 21:17	1
Acetochlor	<0.097		0.097	ug/L		01/24/25 09:25	01/26/25 21:17	1
Alachlor	<0.048		0.048	ug/L		01/24/25 09:25	01/26/25 21:17	1
alpha-BHC	<0.097		0.097	ug/L		01/24/25 09:25	01/26/25 21:17	1
alpha-Chlordane	<0.048		0.048	ug/L		01/24/25 09:25	01/26/25 21:17	1
Anthracene	<0.019		0.019	ug/L		01/24/25 09:25	01/26/25 21:17	1
Atrazine	<0.048		0.048	ug/L		01/24/25 09:25	01/26/25 21:17	1
Benz(a)anthracene	<0.048		0.048	ug/L		01/24/25 09:25	01/26/25 21:17	1
Benzo[a]pyrene	<0.019		0.019	ug/L		01/24/25 09:25	01/26/25 21:17	1
Benzo[b]fluoranthene	<0.019		0.019	ug/L		01/24/25 09:25	01/26/25 21:17	1
Benzo[g,h,i]perylene	<0.048		0.048	ug/L		01/24/25 09:25	01/26/25 21:17	1
Benzo[k]fluoranthene	<0.019		0.019	ug/L		01/24/25 09:25	01/26/25 21:17	1
beta-BHC	<0.097		0.097	ug/L		01/24/25 09:25	01/26/25 21:17	1
Bis(2-ethylhexyl) phthalate	<0.58		0.58	ug/L		01/24/25 09:25	01/26/25 21:17	1
Bromacil	<0.097		0.097	ug/L		01/24/25 09:25	01/26/25 21:17	1
Butachlor	<0.048		0.048	ug/L		01/24/25 09:25	01/26/25 21:17	1
Butylbenzylphthalate	<0.48		0.48	ug/L		01/24/25 09:25	01/26/25 21:17	1
Chlorobenzilate	<0.097		0.097	ug/L		01/24/25 09:25	01/26/25 21:17	1
Chloroneb	<0.097		0.097	ug/L		01/24/25 09:25	01/26/25 21:17	1
Chlorothalonil (Draconil, Bravo)	<0.097		0.097	ug/L		01/24/25 09:25	01/26/25 21:17	1
Chlorpyrifos	<0.048		0.048	ug/L		01/24/25 09:25	01/26/25 21:17	1
Chrysene	<0.019		0.019	ug/L		01/24/25 09:25	01/26/25 21:17	1
delta-BHC	<0.097		0.097	ug/L		01/24/25 09:25	01/26/25 21:17	1
Di(2-ethylhexyl)adipate	<0.58		0.58	ug/L		01/24/25 09:25	01/26/25 21:17	1
Dibenz(a,h)anthracene	<0.048		0.048	ug/L		01/24/25 09:25	01/26/25 21:17	1
Diclorvos (DDVP)	<0.048		0.048	ug/L		01/24/25 09:25	01/26/25 21:17	1
Dieldrin	0.044		0.0097	ug/L		01/24/25 09:25	01/26/25 21:17	1
Diethylphthalate	<0.48		0.48	ug/L		01/24/25 09:25	01/26/25 21:17	1
Dimethylphthalate	<0.48		0.48	ug/L		01/24/25 09:25	01/26/25 21:17	1
Di-n-butyl phthalate	<0.97		0.97	ug/L		01/24/25 09:25	01/26/25 21:17	1
Di-n-octyl phthalate	<0.097		0.097	ug/L		01/24/25 09:25	01/26/25 21:17	1
Endosulfan I (Alpha)	<0.097		0.097	ug/L		01/24/25 09:25	01/26/25 21:17	1
Endosulfan II (Beta)	<0.097		0.097	ug/L		01/24/25 09:25	01/26/25 21:17	1
Endosulfan sulfate	<0.097		0.097	ug/L		01/24/25 09:25	01/26/25 21:17	1
Endrin	<0.0097		0.0097	ug/L		01/24/25 09:25	01/26/25 21:17	1
Endrin aldehyde	<0.097		0.097	ug/L		01/24/25 09:25	01/26/25 21:17	1
EPTC	<0.097		0.097	ug/L		01/24/25 09:25	01/26/25 21:17	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-131757-1
SDG: Weekly

**Client Sample ID: HALAWA WELLS UNITS 1 & 2 P1
(331-206-TP065)**

Lab Sample ID: 380-131757-1

Date Collected: 01/21/25 09:50

Matrix: Drinking Water

Date Received: 01/23/25 09:37

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Fluoranthene	<0.097		0.097	ug/L		01/24/25 09:25	01/26/25 21:17	1	
Fluorene	<0.048		0.048	ug/L		01/24/25 09:25	01/26/25 21:17	1	
gamma-Chlordane	<0.048		0.048	ug/L		01/24/25 09:25	01/26/25 21:17	1	
Heptachlor	<0.0097		0.0097	ug/L		01/24/25 09:25	01/26/25 21:17	1	
Heptachlor epoxide (isomer B)	0.018		0.0097	ug/L		01/24/25 09:25	01/26/25 21:17	1	
Hexachlorobenzene	<0.048		0.048	ug/L		01/24/25 09:25	01/26/25 21:17	1	
Hexachlorocyclopentadiene	<0.048		0.048	ug/L		01/24/25 09:25	01/26/25 21:17	1	
Indeno[1,2,3-cd]pyrene	<0.048		0.048	ug/L		01/24/25 09:25	01/26/25 21:17	1	
Isophorone	<0.097		0.097	ug/L		01/24/25 09:25	01/26/25 21:17	1	
Lindane	<0.0097		0.0097	ug/L		01/24/25 09:25	01/26/25 21:17	1	
Malathion	<0.097		0.097	ug/L		01/24/25 09:25	01/26/25 21:17	1	
Methoxychlor	<0.048		0.048	ug/L		01/24/25 09:25	01/26/25 21:17	1	
Metolachlor	<0.048		0.048	ug/L		01/24/25 09:25	01/26/25 21:17	1	
Molinate	<0.097		0.097	ug/L		01/24/25 09:25	01/26/25 21:17	1	
Naphthalene	<0.097		0.097	ug/L		01/24/25 09:25	01/26/25 21:17	1	
Parathion	<0.097		0.097	ug/L		01/24/25 09:25	01/26/25 21:17	1	
Pendimethalin (Penoxaline)	<0.097		0.097	ug/L		01/24/25 09:25	01/26/25 21:17	1	
Phenanthrene	<0.039		0.039	ug/L		01/24/25 09:25	01/26/25 21:17	1	
Propachlor	<0.048		0.048	ug/L		01/24/25 09:25	01/26/25 21:17	1	
Pyrene	<0.048		0.048	ug/L		01/24/25 09:25	01/26/25 21:17	1	
Simazine	<0.048		0.048	ug/L		01/24/25 09:25	01/26/25 21:17	1	
Terbacil	<0.097		0.097	ug/L		01/24/25 09:25	01/26/25 21:17	1	
Terbutylazine	<0.097		0.097	ug/L		01/24/25 09:25	01/26/25 21:17	1	
Thiobencarb	<0.097		0.097	ug/L		01/24/25 09:25	01/26/25 21:17	1	
Total Permethrin (mixed isomers)	<0.19		0.19	ug/L		01/24/25 09:25	01/26/25 21:17	1	
trans-Nonachlor	<0.048		0.048	ug/L		01/24/25 09:25	01/26/25 21:17	1	
Trifluralin	<0.097		0.097	ug/L		01/24/25 09:25	01/26/25 21:17	1	
Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	01/24/25 09:25	01/26/25 21:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	92		70 - 130				01/24/25 09:25	01/26/25 21:17	1
Perylene-d12	97		70 - 130				01/24/25 09:25	01/26/25 21:17	1
Triphenylphosphate	110		70 - 130				01/24/25 09:25	01/26/25 21:17	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		01/24/25 19:44	02/05/25 03:15	1
2-Methylnaphthalene	<0.19		0.19	ug/L		01/24/25 19:44	02/05/25 03:15	1
Acenaphthene	<0.19		0.19	ug/L		01/24/25 19:44	02/05/25 03:15	1
Acenaphthylene	<0.19		0.19	ug/L		01/24/25 19:44	02/05/25 03:15	1
Anthracene	<0.19		0.19	ug/L		01/24/25 19:44	02/05/25 03:15	1
Benzo[a]anthracene	<0.19		0.19	ug/L		01/24/25 19:44	02/05/25 03:15	1
Benzo[a]pyrene	<0.19		0.19	ug/L		01/24/25 19:44	02/05/25 03:15	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		01/24/25 19:44	02/05/25 03:15	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		01/24/25 19:44	02/05/25 03:15	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		01/24/25 19:44	02/05/25 03:15	1
Chrysene	<0.19		0.19	ug/L		01/24/25 19:44	02/05/25 03:15	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-131757-1
SDG: Weekly

**Client Sample ID: HALAWA WELLS UNITS 1 & 2 P1
(331-206-TP065)**

Lab Sample ID: 380-131757-1

Date Collected: 01/21/25 09:50

Matrix: Drinking Water

Date Received: 01/23/25 09:37

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		01/24/25 19:44	02/05/25 03:15	1
Fluoranthene	<0.19		0.19	ug/L		01/24/25 19:44	02/05/25 03:15	1
Fluorene	<0.19		0.19	ug/L		01/24/25 19:44	02/05/25 03:15	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		01/24/25 19:44	02/05/25 03:15	1
Naphthalene	<0.19		0.19	ug/L		01/24/25 19:44	02/05/25 03:15	1
Phenanthrene	<0.19		0.19	ug/L		01/24/25 19:44	02/05/25 03:15	1
Pyrene	<0.19		0.19	ug/L		01/24/25 19:44	02/05/25 03:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	66		28 - 127			01/24/25 19:44	02/05/25 03:15	1
2-Fluorobiphenyl (Surr)	56		31 - 120			01/24/25 19:44	02/05/25 03:15	1
2-Fluorophenol (Surr)	26		17 - 120			01/24/25 19:44	02/05/25 03:15	1
Nitrobenzene-d5 (Surr)	54		27 - 120			01/24/25 19:44	02/05/25 03:15	1
Phenol-d6 (Surr)	17		10 - 120			01/24/25 19:44	02/05/25 03:15	1
p-Terphenyl-d14 (Surr)	56		45 - 120			01/24/25 19:44	02/05/25 03:15	1

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

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	01/24/25 19:44	02/05/25 10:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	71		33 - 139				01/24/25 19:44	02/05/25 10:51	1
2-Fluorobiphenyl (Surr)	56		33 - 126				01/24/25 19:44	02/05/25 10:51	1
2-Fluorophenol (Surr)	24		12 - 120				01/24/25 19:44	02/05/25 10:51	1
Nitrobenzene-d5 (Surr)	56		36 - 120				01/24/25 19:44	02/05/25 10:51	1
Phenol-d6 (Surr)	11		10 - 120				01/24/25 19:44	02/05/25 10:51	1
p-Terphenyl-d14 (Surr)	60		47 - 131				01/24/25 19:44	02/05/25 10:51	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			01/28/25 18:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		38 - 134				01/28/25 18:35	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<26		26	ug/L		01/27/25 18:31	02/03/25 01:52	1
Motor Oil Range Organics [C24-C36]	<26		26	ug/L		01/27/25 18:31	02/03/25 01:52	1
C8-C18	<26		26	ug/L		01/27/25 18:31	02/03/25 01:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	111		60 - 130			01/27/25 18:31	02/03/25 01:52	1

Client Sample Results

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

Job ID: 380-131757-1
SDG: Weekly

Client Sample ID: AIEA WELLS PUMPS 1&2 P2 (260)
(331-203-TP400)

Lab Sample ID: 380-131757-2

Date Collected: 01/21/25 10:55

Matrix: Drinking Water

Date Received: 01/23/25 09:37

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.096		0.096	ug/L		01/24/25 09:25	01/26/25 21:37	1
2,4'-DDD	<0.096		0.096	ug/L		01/24/25 09:25	01/26/25 21:37	1
2,4'-DDE	<0.096		0.096	ug/L		01/24/25 09:25	01/26/25 21:37	1
2,4'-DDT	<0.096		0.096	ug/L		01/24/25 09:25	01/26/25 21:37	1
2,4-Dinitrotoluene	<0.096		0.096	ug/L		01/24/25 09:25	01/26/25 21:37	1
2,6-Dinitrotoluene	<0.096		0.096	ug/L		01/24/25 09:25	01/26/25 21:37	1
2-Methylnaphthalene	<0.096		0.096	ug/L		01/24/25 09:25	01/26/25 21:37	1
4,4'-DDD	<0.096		0.096	ug/L		01/24/25 09:25	01/26/25 21:37	1
4,4'-DDE	<0.096		0.096	ug/L		01/24/25 09:25	01/26/25 21:37	1
4,4'-DDT	<0.096		0.096	ug/L		01/24/25 09:25	01/26/25 21:37	1
Acenaphthene	<0.096		0.096	ug/L		01/24/25 09:25	01/26/25 21:37	1
Acenaphthylene	<0.096		0.096	ug/L		01/24/25 09:25	01/26/25 21:37	1
Acetochlor	<0.096		0.096	ug/L		01/24/25 09:25	01/26/25 21:37	1
Alachlor	<0.048		0.048	ug/L		01/24/25 09:25	01/26/25 21:37	1
alpha-BHC	<0.096		0.096	ug/L		01/24/25 09:25	01/26/25 21:37	1
alpha-Chlordane	<0.048		0.048	ug/L		01/24/25 09:25	01/26/25 21:37	1
Anthracene	<0.019		0.019	ug/L		01/24/25 09:25	01/26/25 21:37	1
Atrazine	<0.048		0.048	ug/L		01/24/25 09:25	01/26/25 21:37	1
Benz(a)anthracene	<0.048		0.048	ug/L		01/24/25 09:25	01/26/25 21:37	1
Benzo[a]pyrene	<0.019		0.019	ug/L		01/24/25 09:25	01/26/25 21:37	1
Benzo[b]fluoranthene	<0.019		0.019	ug/L		01/24/25 09:25	01/26/25 21:37	1
Benzo[g,h,i]perylene	<0.048		0.048	ug/L		01/24/25 09:25	01/26/25 21:37	1
Benzo[k]fluoranthene	<0.019		0.019	ug/L		01/24/25 09:25	01/26/25 21:37	1
beta-BHC	<0.096		0.096	ug/L		01/24/25 09:25	01/26/25 21:37	1
Bis(2-ethylhexyl) phthalate	<0.58		0.58	ug/L		01/24/25 09:25	01/26/25 21:37	1
Bromacil	<0.096		0.096	ug/L		01/24/25 09:25	01/26/25 21:37	1
Butachlor	<0.048		0.048	ug/L		01/24/25 09:25	01/26/25 21:37	1
Butylbenzylphthalate	<0.48		0.48	ug/L		01/24/25 09:25	01/26/25 21:37	1
Chlorobenzilate	<0.096		0.096	ug/L		01/24/25 09:25	01/26/25 21:37	1
Chloroneb	<0.096		0.096	ug/L		01/24/25 09:25	01/26/25 21:37	1
Chlorothalonil (Draconil, Bravo)	<0.096		0.096	ug/L		01/24/25 09:25	01/26/25 21:37	1
Chlorpyrifos	<0.048		0.048	ug/L		01/24/25 09:25	01/26/25 21:37	1
Chrysene	<0.019		0.019	ug/L		01/24/25 09:25	01/26/25 21:37	1
delta-BHC	<0.096		0.096	ug/L		01/24/25 09:25	01/26/25 21:37	1
Di(2-ethylhexyl)adipate	<0.58		0.58	ug/L		01/24/25 09:25	01/26/25 21:37	1
Dibenz(a,h)anthracene	<0.048		0.048	ug/L		01/24/25 09:25	01/26/25 21:37	1
Diclorvos (DDVP)	<0.048		0.048	ug/L		01/24/25 09:25	01/26/25 21:37	1
Dieldrin	0.011		0.0096	ug/L		01/24/25 09:25	01/26/25 21:37	1
Diethylphthalate	<0.48		0.48	ug/L		01/24/25 09:25	01/26/25 21:37	1
Dimethylphthalate	<0.48		0.48	ug/L		01/24/25 09:25	01/26/25 21:37	1
Di-n-butyl phthalate	<0.96		0.96	ug/L		01/24/25 09:25	01/26/25 21:37	1
Di-n-octyl phthalate	<0.096		0.096	ug/L		01/24/25 09:25	01/26/25 21:37	1
Endosulfan I (Alpha)	<0.096		0.096	ug/L		01/24/25 09:25	01/26/25 21:37	1
Endosulfan II (Beta)	<0.096		0.096	ug/L		01/24/25 09:25	01/26/25 21:37	1
Endosulfan sulfate	<0.096		0.096	ug/L		01/24/25 09:25	01/26/25 21:37	1
Endrin	<0.0096		0.0096	ug/L		01/24/25 09:25	01/26/25 21:37	1
Endrin aldehyde	<0.096		0.096	ug/L		01/24/25 09:25	01/26/25 21:37	1
EPTC	<0.096		0.096	ug/L		01/24/25 09:25	01/26/25 21:37	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-131757-1
SDG: Weekly

Client Sample ID: AIEA WELLS PUMPS 1&2 P2 (260)
(331-203-TP400)

Lab Sample ID: 380-131757-2

Date Collected: 01/21/25 10:55

Matrix: Drinking Water

Date Received: 01/23/25 09:37

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.096		0.096	ug/L		01/24/25 09:25	01/26/25 21:37	1
Fluorene	<0.048		0.048	ug/L		01/24/25 09:25	01/26/25 21:37	1
gamma-Chlordane	<0.048		0.048	ug/L		01/24/25 09:25	01/26/25 21:37	1
Heptachlor	<0.0096		0.0096	ug/L		01/24/25 09:25	01/26/25 21:37	1
Heptachlor epoxide (isomer B)	<0.0096		0.0096	ug/L		01/24/25 09:25	01/26/25 21:37	1
Hexachlorobenzene	<0.048		0.048	ug/L		01/24/25 09:25	01/26/25 21:37	1
Hexachlorocyclopentadiene	<0.048		0.048	ug/L		01/24/25 09:25	01/26/25 21:37	1
Indeno[1,2,3-cd]pyrene	<0.048		0.048	ug/L		01/24/25 09:25	01/26/25 21:37	1
Isophorone	<0.096		0.096	ug/L		01/24/25 09:25	01/26/25 21:37	1
Lindane	<0.0096		0.0096	ug/L		01/24/25 09:25	01/26/25 21:37	1
Malathion	<0.096		0.096	ug/L		01/24/25 09:25	01/26/25 21:37	1
Methoxychlor	<0.048		0.048	ug/L		01/24/25 09:25	01/26/25 21:37	1
Metolachlor	<0.048		0.048	ug/L		01/24/25 09:25	01/26/25 21:37	1
Molinate	<0.096		0.096	ug/L		01/24/25 09:25	01/26/25 21:37	1
Naphthalene	<0.096		0.096	ug/L		01/24/25 09:25	01/26/25 21:37	1
Parathion	<0.096		0.096	ug/L		01/24/25 09:25	01/26/25 21:37	1
Pendimethalin (Penoxaline)	<0.096		0.096	ug/L		01/24/25 09:25	01/26/25 21:37	1
Phenanthrene	<0.039		0.039	ug/L		01/24/25 09:25	01/26/25 21:37	1
Propachlor	<0.048		0.048	ug/L		01/24/25 09:25	01/26/25 21:37	1
Pyrene	<0.048		0.048	ug/L		01/24/25 09:25	01/26/25 21:37	1
Simazine	<0.048		0.048	ug/L		01/24/25 09:25	01/26/25 21:37	1
Terbacil	<0.096		0.096	ug/L		01/24/25 09:25	01/26/25 21:37	1
Terbutylazine	<0.096		0.096	ug/L		01/24/25 09:25	01/26/25 21:37	1
Thiobencarb	<0.096		0.096	ug/L		01/24/25 09:25	01/26/25 21:37	1
Total Permethrin (mixed isomers)	<0.19		0.19	ug/L		01/24/25 09:25	01/26/25 21:37	1
trans-Nonachlor	<0.048		0.048	ug/L		01/24/25 09:25	01/26/25 21:37	1
Trifluralin	<0.096		0.096	ug/L		01/24/25 09:25	01/26/25 21:37	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	01/24/25 09:25	01/26/25 21:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	90		70 - 130	01/24/25 09:25	01/26/25 21:37	1
Perylene-d12	96		70 - 130	01/24/25 09:25	01/26/25 21:37	1
Triphenylphosphate	107		70 - 130	01/24/25 09:25	01/26/25 21:37	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		01/24/25 19:44	02/05/25 03:37	1
2-Methylnaphthalene	<0.19		0.19	ug/L		01/24/25 19:44	02/05/25 03:37	1
Acenaphthene	<0.19		0.19	ug/L		01/24/25 19:44	02/05/25 03:37	1
Acenaphthylene	<0.19		0.19	ug/L		01/24/25 19:44	02/05/25 03:37	1
Anthracene	<0.19		0.19	ug/L		01/24/25 19:44	02/05/25 03:37	1
Benzo[a]anthracene	<0.19		0.19	ug/L		01/24/25 19:44	02/05/25 03:37	1
Benzo[a]pyrene	<0.19		0.19	ug/L		01/24/25 19:44	02/05/25 03:37	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		01/24/25 19:44	02/05/25 03:37	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		01/24/25 19:44	02/05/25 03:37	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		01/24/25 19:44	02/05/25 03:37	1
Chrysene	<0.19		0.19	ug/L		01/24/25 19:44	02/05/25 03:37	1

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Client Sample Results

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

Job ID: 380-131757-1
SDG: Weekly

Client Sample ID: AIEA WELLS PUMPS 1&2 P2 (260)
(331-203-TP400)

Lab Sample ID: 380-131757-2

Date Collected: 01/21/25 10:55

Matrix: Drinking Water

Date Received: 01/23/25 09:37

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		01/24/25 19:44	02/05/25 03:37	1
Fluoranthene	<0.19		0.19	ug/L		01/24/25 19:44	02/05/25 03:37	1
Fluorene	<0.19		0.19	ug/L		01/24/25 19:44	02/05/25 03:37	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		01/24/25 19:44	02/05/25 03:37	1
Naphthalene	<0.19		0.19	ug/L		01/24/25 19:44	02/05/25 03:37	1
Phenanthrene	<0.19		0.19	ug/L		01/24/25 19:44	02/05/25 03:37	1
Pyrene	<0.19		0.19	ug/L		01/24/25 19:44	02/05/25 03:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	67		28 - 127			01/24/25 19:44	02/05/25 03:37	1
2-Fluorobiphenyl (Surr)	52		31 - 120			01/24/25 19:44	02/05/25 03:37	1
2-Fluorophenol (Surr)	25		17 - 120			01/24/25 19:44	02/05/25 03:37	1
Nitrobenzene-d5 (Surr)	51		27 - 120			01/24/25 19:44	02/05/25 03:37	1
Phenol-d6 (Surr)	17		10 - 120			01/24/25 19:44	02/05/25 03:37	1
p-Terphenyl-d14 (Surr)	83		45 - 120			01/24/25 19:44	02/05/25 03:37	1

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

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	01/24/25 19:44	02/05/25 11:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	67		33 - 139				01/24/25 19:44	02/05/25 11:15	1
2-Fluorobiphenyl (Surr)	50		33 - 126				01/24/25 19:44	02/05/25 11:15	1
2-Fluorophenol (Surr)	24		12 - 120				01/24/25 19:44	02/05/25 11:15	1
Nitrobenzene-d5 (Surr)	49		36 - 120				01/24/25 19:44	02/05/25 11:15	1
Phenol-d6 (Surr)	14		10 - 120				01/24/25 19:44	02/05/25 11:15	1
p-Terphenyl-d14 (Surr)	72		47 - 131				01/24/25 19:44	02/05/25 11:15	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			01/28/25 21:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		38 - 134				01/28/25 21:11	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)	<26		26	ug/L		01/27/25 18:31	02/03/25 02:56	1
Motor Oil Range Organics [C24-C36]	<26		26	ug/L		01/27/25 18:31	02/03/25 02:56	1
C8-C18	<26		26	ug/L		01/27/25 18:31	02/03/25 02:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	104		60 - 130			01/27/25 18:31	02/03/25 02:56	1

Client Sample Results

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

Job ID: 380-131757-1
 SDG: Weekly

**Client Sample ID: TB: HALAWA WELLS UNITS 1&2
 (331-206-TP065)**

Lab Sample ID: 380-131757-3

Date Collected: 01/21/25 09:50

Matrix: Water

Date Received: 01/23/25 09:37

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			01/28/25 23:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		38 - 134				01/28/25 23:37	1

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

Lab Sample ID: 380-131757-4

(331-203-TP400)

Date Collected: 01/21/25 10:55

Matrix: Water

Date Received: 01/23/25 09:37

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			01/29/25 00:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		38 - 134				01/29/25 00:01	1

Action Limit Summary

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

Job ID: 380-131757-1
SDG: Weekly

**Client Sample ID: HALAWA WELLS UNITS 1 & 2 P1
(331-206-TP065)**

Lab Sample ID: 380-131757-1

Compliance Check

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

Analyte	Result	Qualifier	Unit	EPAMCL	RL	Method	Prep Type
				Limit			
Alachlor	<0.048		ug/L	2	0.048	525.2	Total/NA
Atrazine	<0.048		ug/L	3	0.048	525.2	Total/NA
Benzo[a]pyrene	<0.019		ug/L	0.2	0.019	525.2	Total/NA
Bis(2-ethylhexyl) phthalate	<0.58		ug/L	6	0.58	525.2	Total/NA
Di(2-ethylhexyl)adipate	<0.58		ug/L	400	0.58	525.2	Total/NA
Endrin	<0.0097		ug/L	2	0.0097	525.2	Total/NA
Heptachlor	<0.0097		ug/L	0.4	0.0097	525.2	Total/NA
Heptachlor epoxide (isomer B)	0.018		ug/L	0.2	0.0097	525.2	Total/NA
Hexachlorobenzene	<0.048		ug/L	1	0.048	525.2	Total/NA
Hexachlorocyclopentadiene	<0.048		ug/L	50	0.048	525.2	Total/NA
Lindane	<0.0097		ug/L	0.2	0.0097	525.2	Total/NA
Methoxychlor	<0.048		ug/L	40	0.048	525.2	Total/NA
Simazine	<0.048		ug/L	4	0.048	525.2	Total/NA
Benzo[a]pyrene	<0.19		ug/L	0.2	0.19	625.1 SIM	Total/NA

**Client Sample ID: AIEA WELLS PUMPS 1&2 P2 (260)
(331-203-TP400)**

Lab Sample ID: 380-131757-2

Compliance Check

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

Analyte	Result	Qualifier	Unit	EPAMCL	RL	Method	Prep Type
				Limit			
Alachlor	<0.048		ug/L	2	0.048	525.2	Total/NA
Atrazine	<0.048		ug/L	3	0.048	525.2	Total/NA
Benzo[a]pyrene	<0.019		ug/L	0.2	0.019	525.2	Total/NA
Bis(2-ethylhexyl) phthalate	<0.58		ug/L	6	0.58	525.2	Total/NA
Di(2-ethylhexyl)adipate	<0.58		ug/L	400	0.58	525.2	Total/NA
Endrin	<0.0096		ug/L	2	0.0096	525.2	Total/NA
Heptachlor	<0.0096		ug/L	0.4	0.0096	525.2	Total/NA
Heptachlor epoxide (isomer B)	<0.0096		ug/L	0.2	0.0096	525.2	Total/NA
Hexachlorobenzene	<0.048		ug/L	1	0.048	525.2	Total/NA
Hexachlorocyclopentadiene	<0.048		ug/L	50	0.048	525.2	Total/NA
Lindane	<0.0096		ug/L	0.2	0.0096	525.2	Total/NA
Methoxychlor	<0.048		ug/L	40	0.048	525.2	Total/NA
Simazine	<0.048		ug/L	4	0.048	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: 380-131757-1
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)
380-131757-1	HALAWA WELLS UNITS 1 & 2 P1 (	92	97	110
380-131757-2	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP400)	90	96	107

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)
380-130632-Q-1-A MS	Matrix Spike	93	98	113
380-130655-O-1-A DU	Duplicate	94	99	112
LCS 380-130212/23-A	Lab Control Sample	92	97	110
MB 380-130212/21-A	Method Blank	91	100	112
MRL 380-130212/22-A	Lab Control Sample	93	101	108

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

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

Matrix: Drinking Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (33-139)	FBP (33-126)	2FP (12-120)	NBZ (36-120)	PHL6 (10-120)	TPHd14 (47-131)
380-131757-1	HALAWA WELLS UNITS 1 & 2 P1 (	71	56	24	56	11	60
380-131757-2	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP400)	67	50	24	49	14	72

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 570-526428/1-A	Method Blank	88	71	37	73	22	82

Surrogate Legend

Surrogate Summary

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

Job ID: 380-131757-1
 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)
380-131757-1	HALAWA WELLS UNITS 1 & 2 P1 (	66	56	26	54	17	56
380-131757-1 MS	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	73	66	37	57	24	79
380-131757-1 MSD	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	85	80	42	67	27	84
380-131757-2	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP400)	67	52	25	51	17	83

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)
LCS 570-526428/2-A	Lab Control Sample	74	70	43	62	29	78
LCSD 570-526428/3-A	Lab Control Sample Dup	78	72	45	65	30	82
MB 570-526428/1-A	Method Blank	76	71	35	71	21	73

Surrogate Legend

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

Method: 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)
380-131757-1	HALAWA WELLS UNITS 1 & 2 P1 (	93
380-131757-1 MS	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	97
380-131757-1 MSD	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	98
380-131757-2	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP400)	95

Eurofins Eaton Analytical Pomona

Surrogate Summary

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

Job ID: 380-131757-1
 SDG: Weekly

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

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)
380-131757-3	TB: HALAWA WELLS UNITS 1&2 (3	93
380-131757-4	TB: AIEA WELLS PUMPS 1&2 (260) (331-203-TP400)	91
LCS 570 527285/1008	Lab Control Sample	98
LCSD 570-527285/9	Lab Control Sample Dup	95
MB 570-527285/10	Method Blank	90
MRL 570-527285/1003	Lab Control Sample	92

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)
380-131757-1	HALAWA WELLS UNITS 1 & 2 P1 (	111
380-131757-1 MS	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	109
380-131757-1 MSD	HALAWA WELLS UNITS 1 & 2 (331 206 TP065)	111
380-131757-2	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP400)	104

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)
LCS 570-527005/2-A	Lab Control Sample	111
LCSD 570-527005/3-A	Lab Control Sample Dup	112
MB 570-527005/1-A	Method Blank	114
MRL 570-527005/4-A	Lab Control Sample	97

Surrogate Legend

OTCSN = n-Octacosane (Surr)

QC Sample Results

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

Job ID: 380-131757-1
SDG: Weekly

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

Lab Sample ID: MB 380-130212/21-A
Matrix: Water
Analysis Batch: 130440

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 130212

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1-Methylnaphthalene	<0.099		0.099	ug/L		01/24/25 09:25	01/26/25 15:11	1
2,4'-DDD	<0.099		0.099	ug/L		01/24/25 09:25	01/26/25 15:11	1
2,4'-DDE	<0.099		0.099	ug/L		01/24/25 09:25	01/26/25 15:11	1
2,4'-DDT	<0.099		0.099	ug/L		01/24/25 09:25	01/26/25 15:11	1
2,4-Dinitrotoluene	<0.099		0.099	ug/L		01/24/25 09:25	01/26/25 15:11	1
2,6-Dinitrotoluene	<0.099		0.099	ug/L		01/24/25 09:25	01/26/25 15:11	1
2-Methylnaphthalene	<0.099		0.099	ug/L		01/24/25 09:25	01/26/25 15:11	1
4,4'-DDD	<0.099		0.099	ug/L		01/24/25 09:25	01/26/25 15:11	1
4,4'-DDE	<0.099		0.099	ug/L		01/24/25 09:25	01/26/25 15:11	1
4,4'-DDT	<0.099		0.099	ug/L		01/24/25 09:25	01/26/25 15:11	1
Acenaphthene	<0.099		0.099	ug/L		01/24/25 09:25	01/26/25 15:11	1
Acenaphthylene	<0.099		0.099	ug/L		01/24/25 09:25	01/26/25 15:11	1
Acetochlor	<0.099		0.099	ug/L		01/24/25 09:25	01/26/25 15:11	1
Alachlor	<0.050		0.050	ug/L		01/24/25 09:25	01/26/25 15:11	1
alpha-BHC	<0.099		0.099	ug/L		01/24/25 09:25	01/26/25 15:11	1
alpha-Chlordane	<0.050		0.050	ug/L		01/24/25 09:25	01/26/25 15:11	1
Anthracene	<0.020		0.020	ug/L		01/24/25 09:25	01/26/25 15:11	1
Atrazine	<0.050		0.050	ug/L		01/24/25 09:25	01/26/25 15:11	1
Benz(a)anthracene	<0.050		0.050	ug/L		01/24/25 09:25	01/26/25 15:11	1
Benzo[a]pyrene	<0.020		0.020	ug/L		01/24/25 09:25	01/26/25 15:11	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		01/24/25 09:25	01/26/25 15:11	1
Benzo[g,h,i]perylene	<0.050		0.050	ug/L		01/24/25 09:25	01/26/25 15:11	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		01/24/25 09:25	01/26/25 15:11	1
beta-BHC	<0.099		0.099	ug/L		01/24/25 09:25	01/26/25 15:11	1
Bis(2-ethylhexyl) phthalate	<0.60		0.60	ug/L		01/24/25 09:25	01/26/25 15:11	1
Bromacil	<0.099		0.099	ug/L		01/24/25 09:25	01/26/25 15:11	1
Butachlor	<0.050		0.050	ug/L		01/24/25 09:25	01/26/25 15:11	1
Butylbenzylphthalate	<0.50		0.50	ug/L		01/24/25 09:25	01/26/25 15:11	1
Chlorobenzilate	<0.099		0.099	ug/L		01/24/25 09:25	01/26/25 15:11	1
Chloroneb	<0.099		0.099	ug/L		01/24/25 09:25	01/26/25 15:11	1
Chlorothalonil (Draconil, Bravo)	<0.099		0.099	ug/L		01/24/25 09:25	01/26/25 15:11	1
Chlorpyrifos	<0.050		0.050	ug/L		01/24/25 09:25	01/26/25 15:11	1
Chrysene	<0.020		0.020	ug/L		01/24/25 09:25	01/26/25 15:11	1
delta-BHC	<0.099		0.099	ug/L		01/24/25 09:25	01/26/25 15:11	1
Di(2-ethylhexyl)adipate	<0.60		0.60	ug/L		01/24/25 09:25	01/26/25 15:11	1
Dibenz(a,h)anthracene	<0.050		0.050	ug/L		01/24/25 09:25	01/26/25 15:11	1
Diclorvos (DDVP)	<0.050		0.050	ug/L		01/24/25 09:25	01/26/25 15:11	1
Dieldrin	<0.0099		0.0099	ug/L		01/24/25 09:25	01/26/25 15:11	1
Diethylphthalate	<0.50		0.50	ug/L		01/24/25 09:25	01/26/25 15:11	1
Dimethylphthalate	<0.50		0.50	ug/L		01/24/25 09:25	01/26/25 15:11	1
Di-n-butyl phthalate	<0.99		0.99	ug/L		01/24/25 09:25	01/26/25 15:11	1
Di-n-octyl phthalate	<0.099		0.099	ug/L		01/24/25 09:25	01/26/25 15:11	1
Endosulfan I (Alpha)	<0.099		0.099	ug/L		01/24/25 09:25	01/26/25 15:11	1
Endosulfan II (Beta)	<0.099		0.099	ug/L		01/24/25 09:25	01/26/25 15:11	1
Endosulfan sulfate	<0.099		0.099	ug/L		01/24/25 09:25	01/26/25 15:11	1
Endrin	<0.0099		0.0099	ug/L		01/24/25 09:25	01/26/25 15:11	1
Endrin aldehyde	<0.099		0.099	ug/L		01/24/25 09:25	01/26/25 15:11	1
EPTC	<0.099		0.099	ug/L		01/24/25 09:25	01/26/25 15:11	1

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QC Sample Results

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

Job ID: 380-131757-1
SDG: Weekly

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

Lab Sample ID: MB 380-130212/21-A
Matrix: Water
Analysis Batch: 130440

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 130212

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Fluoranthene	<0.099		0.099	ug/L		01/24/25 09:25	01/26/25 15:11	1
Fluorene	<0.050		0.050	ug/L		01/24/25 09:25	01/26/25 15:11	1
gamma-Chlordane	<0.050		0.050	ug/L		01/24/25 09:25	01/26/25 15:11	1
Heptachlor	<0.0099		0.0099	ug/L		01/24/25 09:25	01/26/25 15:11	1
Heptachlor epoxide (isomer B)	<0.0099		0.0099	ug/L		01/24/25 09:25	01/26/25 15:11	1
Hexachlorobenzene	<0.050		0.050	ug/L		01/24/25 09:25	01/26/25 15:11	1
Hexachlorocyclopentadiene	<0.050		0.050	ug/L		01/24/25 09:25	01/26/25 15:11	1
Indeno[1,2,3-cd]pyrene	<0.050		0.050	ug/L		01/24/25 09:25	01/26/25 15:11	1
Isophorone	<0.099		0.099	ug/L		01/24/25 09:25	01/26/25 15:11	1
Lindane	<0.0099		0.0099	ug/L		01/24/25 09:25	01/26/25 15:11	1
Malathion	<0.099		0.099	ug/L		01/24/25 09:25	01/26/25 15:11	1
Methoxychlor	<0.050		0.050	ug/L		01/24/25 09:25	01/26/25 15:11	1
Metolachlor	<0.050		0.050	ug/L		01/24/25 09:25	01/26/25 15:11	1
Molinate	<0.099		0.099	ug/L		01/24/25 09:25	01/26/25 15:11	1
Naphthalene	<0.099		0.099	ug/L		01/24/25 09:25	01/26/25 15:11	1
Parathion	<0.099		0.099	ug/L		01/24/25 09:25	01/26/25 15:11	1
Pendimethalin (Penoxaline)	<0.099		0.099	ug/L		01/24/25 09:25	01/26/25 15:11	1
Phenanthrene	<0.040		0.040	ug/L		01/24/25 09:25	01/26/25 15:11	1
Propachlor	<0.050		0.050	ug/L		01/24/25 09:25	01/26/25 15:11	1
Pyrene	<0.050		0.050	ug/L		01/24/25 09:25	01/26/25 15:11	1
Simazine	<0.050		0.050	ug/L		01/24/25 09:25	01/26/25 15:11	1
Terbacil	<0.099		0.099	ug/L		01/24/25 09:25	01/26/25 15:11	1
Terbutylazine	<0.099		0.099	ug/L		01/24/25 09:25	01/26/25 15:11	1
Thiobencarb	<0.099		0.099	ug/L		01/24/25 09:25	01/26/25 15:11	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		01/24/25 09:25	01/26/25 15:11	1
trans-Nonachlor	<0.050		0.050	ug/L		01/24/25 09:25	01/26/25 15:11	1
Trifluralin	<0.099		0.099	ug/L		01/24/25 09:25	01/26/25 15:11	1

Tentatively Identified Compound	MB	MB	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
	Est. Result	Qualifier							
Unknown	1.01	T J	ug/L		2.54	N/A	01/24/25 09:25	01/26/25 15:11	1
Decane	1.88	T J N	ug/L		2.71	124-18-5	01/24/25 09:25	01/26/25 15:11	1
9-Octadecenamide, (Z)-	1.77	T J N	ug/L		7.75	301-02-0	01/24/25 09:25	01/26/25 15:11	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Nitro-m-xylene	91		70 - 130	01/24/25 09:25	01/26/25 15:11	1
Perylene-d12	100		70 - 130	01/24/25 09:25	01/26/25 15:11	1
Triphenylphosphate	112		70 - 130	01/24/25 09:25	01/26/25 15:11	1

Lab Sample ID: LCS 380-130212/23-A
Matrix: Water
Analysis Batch: 130440

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 130212

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
1-Methylnaphthalene	1.98	1.87		ug/L		94	70 - 130
2,4'-DDD	1.98	2.08		ug/L		105	70 - 130
2,4'-DDE	1.98	1.96		ug/L		99	70 - 130
2,4'-DDT	1.98	2.08		ug/L		105	70 - 130
2,4-Dinitrotoluene	1.98	1.82		ug/L		92	70 - 130

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QC Sample Results

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

Job ID: 380-131757-1
SDG: Weekly

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

Lab Sample ID: LCS 380-130212/23-A

Matrix: Water

Analysis Batch: 130440

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 130212

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec Limits
	Added	Result	Qualifier				
2,6-Dinitrotoluene	1.98	1.85		ug/L		93	70 - 130
2-Methylnaphthalene	1.98	1.90		ug/L		96	70 - 130
4,4'-DDD	1.98	2.09		ug/L		105	70 - 130
4,4'-DDE	1.98	2.07		ug/L		104	70 - 130
4,4'-DDT	1.98	2.11		ug/L		106	70 - 130
Acenaphthene	1.98	1.82		ug/L		92	70 - 130
Acenaphthylene	1.98	2.00		ug/L		101	70 - 130
Acetochlor	1.98	2.04		ug/L		103	70 - 130
Alachlor	1.98	2.05		ug/L		104	70 - 130
alpha-BHC	1.98	2.00		ug/L		101	70 - 130
alpha-Chlordane	1.98	2.28		ug/L		115	70 - 130
Anthracene	1.98	1.84		ug/L		93	70 - 130
Atrazine	1.98	2.07		ug/L		105	70 - 130
Benz(a)anthracene	1.98	1.94		ug/L		98	70 - 130
Benzo[a]pyrene	1.98	2.14		ug/L		108	70 - 130
Benzo[b]fluoranthene	1.98	2.22		ug/L		112	70 - 130
Benzo[g,h,i]perylene	1.98	2.00		ug/L		101	70 - 130
Benzo[k]fluoranthene	1.98	2.18		ug/L		110	70 - 130
beta-BHC	1.98	1.98		ug/L		100	70 - 130
Bis(2-ethylhexyl) phthalate	1.98	1.93		ug/L		97	70 - 130
Bromacil	1.98	1.94		ug/L		98	70 - 130
Butachlor	1.98	2.19		ug/L		110	70 - 130
Butylbenzylphthalate	1.98	2.28		ug/L		115	70 - 130
Chlorobenzilate	1.98	1.64		ug/L		83	70 - 130
Chloroneb	1.98	2.24		ug/L		113	70 - 130
Chlorothalonil (Draconil, Bravo)	1.98	2.49		ug/L		126	70 - 130
Chlorpyrifos	1.98	2.08		ug/L		105	70 - 130
Chrysene	1.98	1.97		ug/L		99	70 - 130
delta-BHC	1.98	1.94		ug/L		98	70 - 130
Di(2-ethylhexyl)adipate	1.98	2.03		ug/L		102	70 - 130
Dibenz(a,h)anthracene	1.98	1.86		ug/L		94	70 - 130
Diclorvos (DDVP)	1.98	2.04		ug/L		103	70 - 130
Dieldrin	1.98	2.01		ug/L		101	70 - 130
Diethylphthalate	1.98	2.07		ug/L		104	70 - 130
Dimethylphthalate	1.98	2.05		ug/L		103	70 - 130
Di-n-butyl phthalate	3.97	4.17		ug/L		105	70 - 130
Di-n-octyl phthalate	1.98	1.72		ug/L		87	70 - 130
Endosulfan I (Alpha)	1.98	1.94		ug/L		98	70 - 130
Endosulfan II (Beta)	1.98	2.04		ug/L		103	70 - 130
Endosulfan sulfate	1.98	2.15		ug/L		108	70 - 130
Endrin	1.98	2.04		ug/L		103	70 - 130
Endrin aldehyde	1.98	1.79		ug/L		90	60 - 130
EPTC	1.98	1.97		ug/L		99	70 - 130
Fluoranthene	1.98	2.14		ug/L		108	70 - 130
Fluorene	1.98	2.01		ug/L		101	70 - 130
gamma-Chlordane	1.98	2.26		ug/L		114	70 - 130
Heptachlor	1.98	1.96		ug/L		99	70 - 130
Heptachlor epoxide (isomer B)	1.98	2.25		ug/L		113	70 - 130
Hexachlorobenzene	1.98	1.93		ug/L		97	70 - 130

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QC Sample Results

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

Job ID: 380-131757-1
SDG: Weekly

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

Lab Sample ID: LCS 380-130212/23-A

Matrix: Water

Analysis Batch: 130440

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 130212

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Hexachlorocyclopentadiene	1.98	1.98		ug/L		100	70 - 130
Indeno[1,2,3-cd]pyrene	1.98	1.93		ug/L		97	70 - 130
Isophorone	1.98	1.87		ug/L		94	70 - 130
Lindane	1.98	1.99		ug/L		100	70 - 130
Malathion	1.98	2.22		ug/L		112	70 - 130
Methoxychlor	1.98	2.26		ug/L		114	70 - 130
Metolachlor	1.98	2.12		ug/L		107	70 - 130
Molinate	1.98	2.00		ug/L		101	70 - 130
Naphthalene	1.98	1.95		ug/L		98	70 - 130
Parathion	1.98	2.10		ug/L		106	70 - 130
Pendimethalin (Penoxaline)	1.98	2.09		ug/L		105	70 - 130
Phenanthrene	1.98	1.91		ug/L		96	70 - 130
Propachlor	1.98	2.04		ug/L		103	70 - 130
Pyrene	1.98	2.14		ug/L		108	70 - 130
Simazine	1.98	2.05		ug/L		103	70 - 130
Terbacil	1.98	2.01		ug/L		101	70 - 130
Terbutylazine	1.98	2.11		ug/L		107	70 - 130
Thiobencarb	1.98	2.11		ug/L		106	70 - 130
trans-Nonachlor	1.98	2.23		ug/L		112	70 - 130
Trifluralin	1.98	1.85		ug/L		93	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	92		70 - 130
Perylene-d12	97		70 - 130
Triphenylphosphate	110		70 - 130

Lab Sample ID: MRL 380-130212/22-A

Matrix: Water

Analysis Batch: 130440

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 130212

Analyte	Spike Added	MRL	MRL	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
1-Methylnaphthalene	0.0991	0.112		ug/L		113	50 - 150
2,4'-DDD	0.0991	0.0944	J	ug/L		95	50 - 150
2,4'-DDE	0.0991	0.102		ug/L		103	50 - 150
2,4'-DDT	0.0991	0.105		ug/L		105	50 - 150
2,4-Dinitrotoluene	0.0991	0.115		ug/L		116	50 - 150
2,6-Dinitrotoluene	0.0991	0.114		ug/L		115	50 - 150
2-Methylnaphthalene	0.0991	0.104		ug/L		105	50 - 150
4,4'-DDD	0.0991	0.110		ug/L		111	50 - 150
4,4'-DDE	0.0991	0.109		ug/L		110	50 - 150
4,4'-DDT	0.0991	0.109		ug/L		110	50 - 150
Acenaphthene	0.0991	0.0930	J	ug/L		94	50 - 150
Acenaphthylene	0.0991	0.0979	J	ug/L		99	50 - 150
Acetochlor	0.0991	0.104		ug/L		105	50 - 150
Alachlor	0.0496	0.0562		ug/L		113	50 - 150
alpha-BHC	0.0991	0.109		ug/L		110	50 - 150
alpha-Chlordane	0.0248	<0.029		ug/L		109	50 - 150
Anthracene	0.0198	0.0229		ug/L		116	50 - 150

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QC Sample Results

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

Job ID: 380-131757-1
SDG: Weekly

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

Lab Sample ID: MRL 380-130212/22-A

Matrix: Water

Analysis Batch: 130440

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 130212

Analyte	Spike	MRL	MRL	Unit	D	%Rec	%Rec Limits
	Added	Result	Qualifier				
Atrazine	0.0496	0.0563		ug/L		114	50 - 150
Benz(a)anthracene	0.0496	0.0543		ug/L		110	50 - 150
Benzo[a]pyrene	0.0198	0.0227		ug/L		115	50 - 150
Benzo[b]fluoranthene	0.0198	0.0197	J	ug/L		99	50 - 150
Benzo[g,h,i]perylene	0.0496	0.0456	J	ug/L		92	50 - 150
Benzo[k]fluoranthene	0.0198	0.0222		ug/L		112	50 - 150
beta-BHC	0.0991	0.109		ug/L		110	50 - 150
Bis(2-ethylhexyl) phthalate	0.595	0.552	J	ug/L		93	50 - 150
Bromacil	0.0991	0.114		ug/L		115	50 - 150
Butachlor	0.0496	0.0509		ug/L		103	50 - 150
Butylbenzylphthalate	0.496	0.591		ug/L		119	50 - 150
Chlorobenzilate	0.0991	0.0758	J	ug/L		77	50 - 150
Chloroneb	0.0991	0.0717	J	ug/L		72	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0991	0.0911	J	ug/L		92	50 - 150
Chlorpyrifos	0.0496	0.0530		ug/L		107	50 - 150
Chrysene	0.0198	0.0205		ug/L		104	50 - 150
delta-BHC	0.0991	0.109		ug/L		110	50 - 150
Di(2-ethylhexyl)adipate	0.595	0.670		ug/L		113	50 - 150
Dibenz(a,h)anthracene	0.0496	0.0524		ug/L		106	50 - 150
Diclorvos (DDVP)	0.0496	0.0577		ug/L		116	50 - 150
Dieldrin	0.00991	0.0121		ug/L		122	50 - 150
Diethylphthalate	0.496	0.518		ug/L		105	50 - 150
Dimethylphthalate	0.496	0.518		ug/L		104	50 - 150
Di-n-butyl phthalate	0.496	0.536	J	ug/L		108	49 - 243
Di-n-octyl phthalate	0.0991	0.0974	J	ug/L		98	50 - 150
Endosulfan I (Alpha)	0.0991	0.104		ug/L		105	50 - 150
Endosulfan II (Beta)	0.0991	0.106		ug/L		107	50 - 150
Endosulfan sulfate	0.0991	0.112		ug/L		113	50 - 150
Endrin	0.00991	0.00976	J	ug/L		98	50 - 150
Endrin aldehyde	0.0991	0.118		ug/L		119	50 - 150
EPTC	0.0991	0.0925	J	ug/L		93	50 - 150
Fluoranthene	0.0991	0.0996		ug/L		100	50 - 150
Fluorene	0.0496	0.0502		ug/L		101	50 - 150
gamma-Chlordane	0.0248	0.0264	J	ug/L		107	50 - 150
Heptachlor	0.00991	0.0147		ug/L		148	50 - 150
Heptachlor epoxide (isomer B)	0.00991	0.0133		ug/L		134	50 - 150
Hexachlorobenzene	0.0496	0.0476	J	ug/L		96	50 - 150
Hexachlorocyclopentadiene	0.0496	0.0395	J	ug/L		80	50 - 150
Indeno[1,2,3-cd]pyrene	0.0496	0.0567		ug/L		115	50 - 150
Isophorone	0.0991	0.113		ug/L		114	50 - 150
Lindane	0.00991	0.0137		ug/L		138	50 - 150
Malathion	0.0991	0.102		ug/L		103	50 - 150
Methoxychlor	0.0496	0.0559		ug/L		113	50 - 150
Metolachlor	0.0496	0.0550		ug/L		111	50 - 150
Molinate	0.0991	0.0997		ug/L		101	50 - 150
Naphthalene	0.0991	0.0960	J	ug/L		97	50 - 150
Parathion	0.0991	0.0930	J	ug/L		94	50 - 150
Pendimethalin (Penoxaline)	0.0991	0.105		ug/L		106	50 - 150
Phenanthrene	0.0396	0.0444		ug/L		112	50 - 150

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-131757-1
SDG: Weekly

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

Lab Sample ID: MRL 380-130212/22-A

Matrix: Water

Analysis Batch: 130440

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 130212

Analyte	Spike	MRL	MRL	Unit	D	%Rec	%Rec Limits
	Added	Result	Qualifier				
Propachlor	0.0496	0.0525		ug/L		106	50 - 150
Pyrene	0.0496	0.0511		ug/L		103	50 - 150
Simazine	0.0496	0.0554		ug/L		112	50 - 150
Terbacil	0.0991	0.0962	J	ug/L		97	50 - 150
Terbutylazine	0.0991	0.102		ug/L		103	50 - 150
Thiobencarb	0.0991	0.101		ug/L		102	50 - 150
trans-Nonachlor	0.0248	0.0278	J	ug/L		112	50 - 150
Trifluralin	0.0991	0.102		ug/L		103	50 - 150

Surrogate	MRL	MRL	Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	93		70 - 130
Perylene-d12	101		70 - 130
Triphenylphosphate	108		70 - 130

Lab Sample ID: 380-130632-Q-1-A MS

Matrix: Water

Analysis Batch: 130440

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 130212

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
1-Methylnaphthalene	<0.097		1.94	1.85		ug/L		95	70 - 130
2,4'-DDD	<0.097		1.94	2.07		ug/L		107	70 - 130
2,4'-DDE	<0.097		1.94	1.98		ug/L		102	70 - 130
2,4'-DDT	<0.097		1.94	2.19		ug/L		113	70 - 130
2,4-Dinitrotoluene	<0.097		1.94	1.89		ug/L		98	70 - 130
2,6-Dinitrotoluene	<0.097		1.94	1.90		ug/L		98	70 - 130
2-Methylnaphthalene	<0.097		1.94	1.89		ug/L		98	70 - 130
4,4'-DDD	<0.097		1.94	2.14		ug/L		111	70 - 130
4,4'-DDE	<0.097		1.94	2.19		ug/L		113	70 - 130
4,4'-DDT	<0.097		1.94	2.28		ug/L		118	70 - 130
Acenaphthene	<0.097		1.94	1.79		ug/L		93	70 - 130
Acenaphthylene	<0.097		1.94	1.93		ug/L		100	70 - 130
Acetochlor	<0.097		1.94	2.01		ug/L		104	70 - 130
Alachlor	<0.048		1.94	1.98		ug/L		102	70 - 130
alpha-BHC	<0.097		1.94	1.98		ug/L		102	70 - 130
alpha-Chlordane	<0.048		1.94	2.26		ug/L		117	70 - 130
Anthracene	<0.019	F1	1.94	0.425	F1	ug/L		22	70 - 130
Atrazine	<0.048		1.94	1.90		ug/L		98	70 - 130
Benz(a)anthracene	<0.048		1.94	1.67		ug/L		86	70 - 130
Benzo[a]pyrene	<0.019		1.94	1.54		ug/L		80	70 - 130
Benzo[b]fluoranthene	<0.019		1.94	2.23		ug/L		115	70 - 130
Benzo[g,h,i]perylene	<0.048		1.94	2.08		ug/L		108	70 - 130
Benzo[k]fluoranthene	<0.019		1.94	2.11		ug/L		109	70 - 130
beta-BHC	<0.097		1.94	1.99		ug/L		103	70 - 130
Bis(2-ethylhexyl) phthalate	<0.58		1.94	2.17		ug/L		112	70 - 130
Bromacil	<0.097		1.94	1.91		ug/L		99	70 - 130
Butachlor	<0.048		1.94	2.18		ug/L		113	70 - 130
Butylbenzylphthalate	<0.48		1.94	2.31		ug/L		119	70 - 130
Chlorobenzilate	<0.097		1.94	2.03		ug/L		105	70 - 130

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QC Sample Results

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

Job ID: 380-131757-1
SDG: Weekly

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

Lab Sample ID: 380-130632-Q-1-A MS

Client Sample ID: Matrix Spike

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 130440

Prep Batch: 130212

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
Chloroneb	<0.097		1.94	2.28		ug/L		118	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.097		1.94	2.25		ug/L		116	70 - 130
Chlorpyrifos	<0.048		1.94	2.08		ug/L		107	70 - 130
Chrysene	<0.019		1.94	1.85		ug/L		96	70 - 130
delta-BHC	<0.097		1.94	1.90		ug/L		98	70 - 130
Di(2-ethylhexyl)adipate	<0.58		1.94	2.27		ug/L		117	70 - 130
Dibenz(a,h)anthracene	<0.048		1.94	1.86		ug/L		96	70 - 130
Diclorvos (DDVP)	<0.048		1.94	2.13		ug/L		110	70 - 130
Dieldrin	<0.0097		1.94	2.00		ug/L		103	70 - 130
Diethylphthalate	<0.48		1.94	2.10		ug/L		109	70 - 130
Dimethylphthalate	<0.48		1.94	2.08		ug/L		107	70 - 130
Di-n-butyl phthalate	<0.97		3.87	4.12		ug/L		106	70 - 130
Di-n-octyl phthalate	<0.097		1.94	2.01		ug/L		104	70 - 130
Endosulfan I (Alpha)	<0.097		1.94	1.93		ug/L		100	70 - 130
Endosulfan II (Beta)	<0.097		1.94	2.04		ug/L		106	70 - 130
Endosulfan sulfate	<0.097		1.94	2.12		ug/L		109	70 - 130
Endrin	<0.0097		1.94	1.85		ug/L		96	70 - 130
Endrin aldehyde	<0.097		1.94	1.61		ug/L		83	60 - 130
EPTC	<0.097		1.94	1.95		ug/L		101	70 - 130
Fluoranthene	<0.097		1.94	2.11		ug/L		109	70 - 130
Fluorene	<0.048		1.94	2.02		ug/L		104	70 - 130
gamma-Chlordane	<0.048		1.94	2.25		ug/L		116	70 - 130
Heptachlor	<0.0097		1.94	1.96		ug/L		101	70 - 130
Heptachlor epoxide (isomer B)	<0.0097		1.94	2.20		ug/L		114	70 - 130
Hexachlorobenzene	<0.048		1.94	1.94		ug/L		100	70 - 130
Hexachlorocyclopentadiene	<0.048		1.94	2.08		ug/L		107	70 - 130
Indeno[1,2,3-cd]pyrene	<0.048		1.94	2.08		ug/L		107	70 - 130
Isophorone	<0.097		1.94	1.89		ug/L		98	70 - 130
Lindane	<0.0097		1.94	1.97		ug/L		102	70 - 130
Malathion	<0.097		1.94	2.24		ug/L		116	70 - 130
Methoxychlor	<0.048		1.94	2.21		ug/L		114	70 - 130
Metolachlor	<0.048		1.94	2.06		ug/L		106	70 - 130
Molinate	<0.097		1.94	2.02		ug/L		104	70 - 130
Naphthalene	<0.097		1.94	1.90		ug/L		98	70 - 130
Parathion	<0.097		1.94	2.20		ug/L		113	70 - 130
Pendimethalin (Penoxaline)	<0.097		1.94	2.16		ug/L		111	70 - 130
Phenanthrene	<0.039		1.94	1.85		ug/L		96	70 - 130
Propachlor	<0.048		1.94	2.10		ug/L		108	70 - 130
Pyrene	<0.048		1.94	2.04		ug/L		106	70 - 130
Simazine	<0.048		1.94	1.92		ug/L		99	70 - 130
Terbacil	<0.097		1.94	1.92		ug/L		99	70 - 130
Terbutylazine	<0.097		1.94	1.99		ug/L		103	70 - 130
Thiobencarb	<0.097		1.94	2.08		ug/L		108	70 - 130
trans-Nonachlor	<0.048		1.94	2.28		ug/L		118	70 - 130
Trifluralin	<0.097		1.94	1.93		ug/L		100	70 - 130

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	93		70 - 130

QC Sample Results

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

Job ID: 380-131757-1
SDG: Weekly

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

Lab Sample ID: 380-130632-Q-1-A MS
Matrix: Water
Analysis Batch: 130440

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 130212

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
Perylene-d12	98		70 - 130
Triphenylphosphate	113		70 - 130

Lab Sample ID: 380-130655-O-1-A DU
Matrix: Water
Analysis Batch: 130440

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 130212

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
1-Methylnaphthalene	<0.097		<0.096		ug/L		NC	20
2,4'-DDD	<0.097		<0.096		ug/L		NC	20
2,4'-DDE	<0.097		<0.096		ug/L		NC	20
2,4'-DDT	<0.097		<0.096		ug/L		NC	20
2,4-Dinitrotoluene	<0.097		<0.096		ug/L		NC	20
2,6-Dinitrotoluene	<0.097		<0.096		ug/L		NC	20
2-Methylnaphthalene	<0.097		<0.096		ug/L		NC	20
4,4'-DDD	<0.097		<0.096		ug/L		NC	20
4,4'-DDE	<0.097		<0.096		ug/L		NC	20
4,4'-DDT	<0.097		<0.096		ug/L		NC	20
Acenaphthene	<0.097		<0.096		ug/L		NC	20
Acenaphthylene	<0.097		<0.096		ug/L		NC	20
Acetochlor	<0.097		<0.096		ug/L		NC	20
Alachlor	<0.048		<0.048		ug/L		NC	20
alpha-BHC	<0.097		<0.096		ug/L		NC	20
alpha-Chlordane	<0.048		<0.048		ug/L		NC	20
Anthracene	<0.019		<0.019		ug/L		NC	20
Atrazine	<0.048		<0.048		ug/L		NC	20
Benz(a)anthracene	<0.048		<0.048		ug/L		NC	20
Benzo[a]pyrene	<0.019		<0.019		ug/L		NC	20
Benzo[b]fluoranthene	<0.019		<0.019		ug/L		NC	20
Benzo[g,h,i]perylene	<0.048		<0.048		ug/L		NC	20
Benzo[k]fluoranthene	<0.019		<0.019		ug/L		NC	20
beta-BHC	<0.097		<0.096		ug/L		NC	20
Bis(2-ethylhexyl) phthalate	<0.58		<0.58		ug/L		NC	20
Bromacil	<0.097		<0.096		ug/L		NC	20
Butachlor	<0.048		<0.048		ug/L		NC	20
Butylbenzylphthalate	<0.48		<0.48		ug/L		NC	20
Chlorobenzilate	<0.097		<0.096		ug/L		NC	20
Chloroneb	<0.097		<0.096		ug/L		NC	20
Chlorothalonil (Draconil, Bravo)	<0.097		<0.096		ug/L		NC	20
Chlorpyrifos	<0.048		<0.048		ug/L		NC	20
Chrysene	<0.019		<0.019		ug/L		NC	20
delta-BHC	<0.097		<0.096		ug/L		NC	20
Di(2-ethylhexyl)adipate	<0.58		<0.58		ug/L		NC	20
Dibenz(a,h)anthracene	<0.048		<0.048		ug/L		NC	20
Diclorvos (DDVP)	<0.048		<0.048		ug/L		NC	20
Dieldrin	<0.0097		<0.0096		ug/L		NC	20
Diethylphthalate	<0.48		<0.48		ug/L		NC	20
Dimethylphthalate	<0.48		<0.48		ug/L		NC	20

QC Sample Results

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

Job ID: 380-131757-1
SDG: Weekly

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

Lab Sample ID: 380-130655-O-1-A DU

Matrix: Water

Analysis Batch: 130440

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 130212

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Di-n-butyl phthalate	<0.97		<0.96		ug/L		NC	20
Di-n-octyl phthalate	<0.097		<0.096		ug/L		NC	20
Endosulfan I (Alpha)	<0.097		<0.096		ug/L		NC	20
Endosulfan II (Beta)	<0.097		<0.096		ug/L		NC	20
Endosulfan sulfate	<0.097		<0.096		ug/L		NC	20
Endrin	<0.0097		<0.0096		ug/L		NC	20
Endrin aldehyde	<0.097		<0.096		ug/L		NC	20
EPTC	<0.097		<0.096		ug/L		NC	20
Fluoranthene	<0.097		<0.096		ug/L		NC	20
Fluorene	<0.048		<0.048		ug/L		NC	20
gamma-Chlordane	<0.048		<0.048		ug/L		NC	20
Heptachlor	<0.0097		<0.0096		ug/L		NC	20
Heptachlor epoxide (isomer B)	<0.0097		<0.0096		ug/L		NC	20
Hexachlorobenzene	<0.048		<0.048		ug/L		NC	20
Hexachlorocyclopentadiene	<0.048		<0.048		ug/L		NC	20
Indeno[1,2,3-cd]pyrene	<0.048		<0.048		ug/L		NC	20
Isophorone	<0.097		<0.096		ug/L		NC	20
Lindane	<0.0097		<0.0096		ug/L		NC	20
Malathion	<0.097		<0.096		ug/L		NC	20
Methoxychlor	<0.048		<0.048		ug/L		NC	20
Metolachlor	<0.048		<0.048		ug/L		NC	20
Molinate	<0.097		<0.096		ug/L		NC	20
Naphthalene	<0.097		<0.096		ug/L		NC	20
Parathion	<0.097		<0.096		ug/L		NC	20
Pendimethalin (Penoxaline)	<0.097		<0.096		ug/L		NC	20
Phenanthrene	<0.039		<0.038		ug/L		NC	20
Propachlor	<0.048		<0.048		ug/L		NC	20
Pyrene	<0.048		<0.048		ug/L		NC	20
Simazine	<0.048		<0.048		ug/L		NC	20
Terbacil	<0.097		<0.096		ug/L		NC	20
Terbutylazine	<0.097		<0.096		ug/L		NC	20
Thiobencarb	<0.097		<0.096		ug/L		NC	20
Total Permethrin (mixed isomers)	<0.19		<0.19		ug/L		NC	20
trans-Nonachlor	<0.048		<0.048		ug/L		NC	20
Trifluralin	<0.097		<0.096		ug/L		NC	20
		DU	DU					
Surrogate	%Recovery	Qualifier	Limits					
2-Nitro-m-xylene	94		70 - 130					
Perylene-d12	99		70 - 130					
Triphenylphosphate	112		70 - 130					

QC Sample Results

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

Job ID: 380-131757-1
SDG: Weekly

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

Lab Sample ID: MB 570-526428/1-A
Matrix: Water
Analysis Batch: 530137

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 526428

<i>Tentatively Identified Compound</i>	<i>Est. Result</i>	<i>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>01/24/25 19:44</i>	<i>02/05/25 10:28</i>	<i>1</i>

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>2,4,6-Tribromophenol (Surr)</i>	<i>88</i>		<i>33 - 139</i>	<i>01/24/25 19:44</i>	<i>02/05/25 10:28</i>	<i>1</i>
<i>2-Fluorobiphenyl (Surr)</i>	<i>71</i>		<i>33 - 126</i>	<i>01/24/25 19:44</i>	<i>02/05/25 10:28</i>	<i>1</i>
<i>2-Fluorophenol (Surr)</i>	<i>37</i>		<i>12 - 120</i>	<i>01/24/25 19:44</i>	<i>02/05/25 10:28</i>	<i>1</i>
<i>Nitrobenzene-d5 (Surr)</i>	<i>73</i>		<i>36 - 120</i>	<i>01/24/25 19:44</i>	<i>02/05/25 10:28</i>	<i>1</i>
<i>Phenol-d6 (Surr)</i>	<i>22</i>		<i>10 - 120</i>	<i>01/24/25 19:44</i>	<i>02/05/25 10:28</i>	<i>1</i>
<i>p-Terphenyl-d14 (Surr)</i>	<i>82</i>		<i>47 - 131</i>	<i>01/24/25 19:44</i>	<i>02/05/25 10:28</i>	<i>1</i>

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

Lab Sample ID: MB 570-526428/1-A
Matrix: Water
Analysis Batch: 529868

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 526428

<i>Analyte</i>	<i>Result</i>	<i>Qualifier</i>	<i>RL</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>1-Methylnaphthalene</i>	<i><0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>01/24/25 19:44</i>	<i>02/04/25 21:25</i>	<i>1</i>
<i>2-Methylnaphthalene</i>	<i><0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>01/24/25 19:44</i>	<i>02/04/25 21:25</i>	<i>1</i>
<i>Acenaphthene</i>	<i><0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>01/24/25 19:44</i>	<i>02/04/25 21:25</i>	<i>1</i>
<i>Acenaphthylene</i>	<i><0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>01/24/25 19:44</i>	<i>02/04/25 21:25</i>	<i>1</i>
<i>Anthracene</i>	<i><0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>01/24/25 19:44</i>	<i>02/04/25 21:25</i>	<i>1</i>
<i>Benzo[a]anthracene</i>	<i><0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>01/24/25 19:44</i>	<i>02/04/25 21:25</i>	<i>1</i>
<i>Benzo[a]pyrene</i>	<i><0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>01/24/25 19:44</i>	<i>02/04/25 21:25</i>	<i>1</i>
<i>Benzo[b]fluoranthene</i>	<i><0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>01/24/25 19:44</i>	<i>02/04/25 21:25</i>	<i>1</i>
<i>Benzo[g,h,i]perylene</i>	<i><0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>01/24/25 19:44</i>	<i>02/04/25 21:25</i>	<i>1</i>
<i>Benzo[k]fluoranthene</i>	<i><0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>01/24/25 19:44</i>	<i>02/04/25 21:25</i>	<i>1</i>
<i>Chrysene</i>	<i><0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>01/24/25 19:44</i>	<i>02/04/25 21:25</i>	<i>1</i>
<i>Dibenz(a,h)anthracene</i>	<i><0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>01/24/25 19:44</i>	<i>02/04/25 21:25</i>	<i>1</i>
<i>Fluoranthene</i>	<i><0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>01/24/25 19:44</i>	<i>02/04/25 21:25</i>	<i>1</i>
<i>Fluorene</i>	<i><0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>01/24/25 19:44</i>	<i>02/04/25 21:25</i>	<i>1</i>
<i>Indeno[1,2,3-cd]pyrene</i>	<i><0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>01/24/25 19:44</i>	<i>02/04/25 21:25</i>	<i>1</i>
<i>Naphthalene</i>	<i><0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>01/24/25 19:44</i>	<i>02/04/25 21:25</i>	<i>1</i>
<i>Phenanthrene</i>	<i><0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>01/24/25 19:44</i>	<i>02/04/25 21:25</i>	<i>1</i>
<i>Pyrene</i>	<i><0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>01/24/25 19:44</i>	<i>02/04/25 21:25</i>	<i>1</i>

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>2,4,6-Tribromophenol (Surr)</i>	<i>76</i>		<i>28 - 127</i>	<i>01/24/25 19:44</i>	<i>02/04/25 21:25</i>	<i>1</i>
<i>2-Fluorobiphenyl (Surr)</i>	<i>71</i>		<i>31 - 120</i>	<i>01/24/25 19:44</i>	<i>02/04/25 21:25</i>	<i>1</i>
<i>2-Fluorophenol (Surr)</i>	<i>35</i>		<i>17 - 120</i>	<i>01/24/25 19:44</i>	<i>02/04/25 21:25</i>	<i>1</i>
<i>Nitrobenzene-d5 (Surr)</i>	<i>71</i>		<i>27 - 120</i>	<i>01/24/25 19:44</i>	<i>02/04/25 21:25</i>	<i>1</i>
<i>Phenol-d6 (Surr)</i>	<i>21</i>		<i>10 - 120</i>	<i>01/24/25 19:44</i>	<i>02/04/25 21:25</i>	<i>1</i>
<i>p-Terphenyl-d14 (Surr)</i>	<i>73</i>		<i>45 - 120</i>	<i>01/24/25 19:44</i>	<i>02/04/25 21:25</i>	<i>1</i>

QC Sample Results

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

Job ID: 380-131757-1
SDG: Weekly

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

Lab Sample ID: LCS 570-526428/2-A

Matrix: Water

Analysis Batch: 529868

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 526428

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	20.0	13.5		ug/L		67	47 - 120
2-Methylnaphthalene	20.0	15.0		ug/L		75	43 - 120
Acenaphthene	20.0	15.7		ug/L		79	60 - 132
Acenaphthylene	20.0	15.7		ug/L		78	54 - 126
Anthracene	20.0	16.9		ug/L		84	43 - 120
Benzo[a]anthracene	20.0	17.0		ug/L		85	42 - 133
Benzo[a]pyrene	20.0	18.5		ug/L		92	32 - 148
Benzo[b]fluoranthene	20.0	18.2		ug/L		91	42 - 140
Benzo[g,h,i]perylene	20.0	17.1		ug/L		85	1 - 195
Benzo[k]fluoranthene	20.0	17.9		ug/L		90	25 - 146
Chrysene	20.0	16.3		ug/L		82	44 - 140
Dibenz(a,h)anthracene	20.0	17.5		ug/L		88	1 - 200
Fluoranthene	20.0	18.6		ug/L		93	43 - 121
Fluorene	20.0	16.8		ug/L		84	70 - 120
Indeno[1,2,3-cd]pyrene	20.0	18.1		ug/L		90	1 - 151
Naphthalene	20.0	13.6		ug/L		68	36 - 120
Phenanthrene	20.0	16.9		ug/L		84	65 - 120
Pyrene	20.0	16.8		ug/L		84	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	74		28 - 127
2-Fluorobiphenyl (Surr)	70		31 - 120
2-Fluorophenol (Surr)	43		17 - 120
Nitrobenzene-d5 (Surr)	62		27 - 120
Phenol-d6 (Surr)	29		10 - 120
p-Terphenyl-d14 (Surr)	78		45 - 120

Lab Sample ID: LCSD 570-526428/3-A

Matrix: Water

Analysis Batch: 529868

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 526428

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	20.0	14.1		ug/L		70	47 - 120	4	20
2-Methylnaphthalene	20.0	15.9		ug/L		80	43 - 120	6	20
Acenaphthene	20.0	15.9		ug/L		79	60 - 132	1	29
Acenaphthylene	20.0	13.7		ug/L		68	54 - 126	14	45
Anthracene	20.0	17.5		ug/L		87	43 - 120	4	40
Benzo[a]anthracene	20.0	18.2		ug/L		91	42 - 133	7	32
Benzo[a]pyrene	20.0	19.2		ug/L		96	32 - 148	4	43
Benzo[b]fluoranthene	20.0	18.6		ug/L		93	42 - 140	2	43
Benzo[g,h,i]perylene	20.0	17.0		ug/L		85	1 - 195	0	61
Benzo[k]fluoranthene	20.0	18.4		ug/L		92	25 - 146	2	38
Chrysene	20.0	17.5		ug/L		87	44 - 140	7	53
Dibenz(a,h)anthracene	20.0	17.8		ug/L		89	1 - 200	1	75
Fluoranthene	20.0	19.5		ug/L		97	43 - 121	5	40
Fluorene	20.0	17.3		ug/L		87	70 - 120	3	23
Indeno[1,2,3-cd]pyrene	20.0	18.5		ug/L		92	1 - 151	2	60
Naphthalene	20.0	14.2		ug/L		71	36 - 120	4	39

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-131757-1
SDG: Weekly

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

Lab Sample ID: LCSD 570-526428/3-A

Client Sample ID: Lab Control Sample Dup

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 529868

Prep Batch: 526428

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Phenanthrene	20.0	17.4		ug/L		87	65 - 120	3	24	
Pyrene	20.0	17.8		ug/L		89	70 - 120	6	30	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	78		28 - 127
2-Fluorobiphenyl (Surr)	72		31 - 120
2-Fluorophenol (Surr)	45		17 - 120
Nitrobenzene-d5 (Surr)	65		27 - 120
Phenol-d6 (Surr)	30		10 - 120
p-Terphenyl-d14 (Surr)	82		45 - 120

Lab Sample ID: 380-131757-1 MS

Client Sample ID: HALAWA WELLS UNITS 1 & 2 (331-206-TP065)

Matrix: Drinking Water

Prep Type: Total/NA

Analysis Batch: 529868

Prep Batch: 526428

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	%Rec	
				Result	Qualifier				Limits	RPD
1-Methylnaphthalene	<0.19		19.1	12.1		ug/L		63	36 - 120	
2-Methylnaphthalene	<0.19		19.1	13.3		ug/L		70	32 - 124	
Acenaphthene	<0.19		19.1	13.6		ug/L		71	47 - 145	
Acenaphthylene	<0.19		19.1	13.9		ug/L		73	33 - 145	
Anthracene	<0.19		19.1	15.3		ug/L		80	27 - 133	
Benzo[a]anthracene	<0.19		19.1	16.0		ug/L		84	33 - 143	
Benzo[a]pyrene	<0.19		19.1	13.9		ug/L		73	17 - 163	
Benzo[b]fluoranthene	<0.19		19.1	14.4		ug/L		75	24 - 159	
Benzo[g,h,i]perylene	<0.19		19.1	12.5		ug/L		65	1 - 219	
Benzo[k]fluoranthene	<0.19		19.1	14.4		ug/L		76	11 - 162	
Chrysene	<0.19		19.1	15.5		ug/L		81	17 - 168	
Dibenz(a,h)anthracene	<0.19		19.1	13.5		ug/L		71	1 - 227	
Fluoranthene	<0.19		19.1	16.8		ug/L		88	26 - 137	
Fluorene	<0.19		19.1	15.1		ug/L		79	59 - 121	
Indeno[1,2,3-cd]pyrene	<0.19		19.1	13.6		ug/L		71	1 - 171	
Naphthalene	<0.19		19.1	11.8		ug/L		62	21 - 133	
Phenanthrene	<0.19		19.1	15.1		ug/L		79	54 - 120	
Pyrene	<0.19		19.1	16.4		ug/L		86	52 - 120	

Surrogate	MS		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	73		28 - 127
2-Fluorobiphenyl (Surr)	66		31 - 120
2-Fluorophenol (Surr)	37		17 - 120
Nitrobenzene-d5 (Surr)	57		27 - 120
Phenol-d6 (Surr)	24		10 - 120
p-Terphenyl-d14 (Surr)	79		45 - 120

QC Sample Results

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

Job ID: 380-131757-1
SDG: Weekly

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

Lab Sample ID: 380-131757-1 MSD

Client Sample ID: HALAWA WELLS UNITS 1 & 2 (331-206-TP065)

Matrix: Drinking Water

Prep Type: Total/NA

Analysis Batch: 529868

Prep Batch: 526428

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
1-Methylnaphthalene	<0.19		19.2	14.0		ug/L		73	36 - 120	15	30
2-Methylnaphthalene	<0.19		19.2	16.0		ug/L		83	32 - 124	19	30
Acenaphthene	<0.19		19.2	16.8		ug/L		87	47 - 145	21	48
Acenaphthylene	<0.19		19.2	13.6		ug/L		71	33 - 145	2	74
Anthracene	<0.19		19.2	18.0		ug/L		93	27 - 133	16	66
Benzo[a]anthracene	<0.19		19.2	17.8		ug/L		93	33 - 143	11	53
Benzo[a]pyrene	<0.19		19.2	18.2		ug/L		95	17 - 163	27	72
Benzo[b]fluoranthene	<0.19		19.2	17.7		ug/L		92	24 - 159	20	71
Benzo[g,h,i]perylene	<0.19		19.2	16.9		ug/L		88	1 - 219	30	97
Benzo[k]fluoranthene	<0.19		19.2	17.5		ug/L		91	11 - 162	19	63
Chrysene	<0.19		19.2	17.6		ug/L		91	17 - 168	12	87
Dibenz(a,h)anthracene	<0.19		19.2	17.2		ug/L		89	1 - 227	24	126
Fluoranthene	<0.19		19.2	18.3		ug/L		95	26 - 137	8	66
Fluorene	<0.19		19.2	17.1		ug/L		89	59 - 121	13	38
Indeno[1,2,3-cd]pyrene	<0.19		19.2	18.1		ug/L		94	1 - 171	29	99
Naphthalene	<0.19		19.2	14.5		ug/L		75	21 - 133	20	65
Phenanthrene	<0.19		19.2	17.9		ug/L		93	54 - 120	16	39
Pyrene	<0.19		19.2	18.8		ug/L		98	52 - 120	14	49

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	85		28 - 127
2-Fluorobiphenyl (Surr)	80		31 - 120
2-Fluorophenol (Surr)	42		17 - 120
Nitrobenzene-d5 (Surr)	67		27 - 120
Phenol-d6 (Surr)	27		10 - 120
p-Terphenyl-d14 (Surr)	84		45 - 120

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

Lab Sample ID: MB 570-527285/10

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 527285

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
GRO (C6-C10)	<10		10	ug/L			01/28/25 18:01	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	90		38 - 134		01/28/25 18:01	1

Lab Sample ID: LCS 570-527285/1008

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 527285

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec
		Result	Qualifier				Limits
Gasoline Range Organics (C4-C13)	400	366		ug/L		92	78 - 120

QC Sample Results

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

Job ID: 380-131757-1
SDG: Weekly

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

Lab Sample ID: LCS 570-527285/1008

Matrix: Water

Analysis Batch: 527285

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

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

Lab Sample ID: LCSD 570-527285/9

Matrix: Water

Analysis Batch: 527285

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	390		ug/L		98	78 - 120	6	10

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		38 - 134

Lab Sample ID: MRL 570-527285/1003

Matrix: Water

Analysis Batch: 527285

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	10.8		ug/L		108	50 - 150

	MRL	MRL	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		38 - 134

Lab Sample ID: 380-131757-1 MS

Matrix: Drinking Water

Analysis Batch: 527285

Client Sample ID: HALAWA WELLS UNITS 1 & 2 (331-206-TP065)

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	379		ug/L		95	68 - 122

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		38 - 134

Lab Sample ID: 380-131757-1 MSD

Matrix: Drinking Water

Analysis Batch: 527285

Client Sample ID: HALAWA WELLS UNITS 1 & 2 (331-206-TP065)

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	382		ug/L		96	68 - 122	1	18

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

QC Sample Results

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

Job ID: 380-131757-1
SDG: Weekly

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

Lab Sample ID: MB 570-527005/1-A
Matrix: Water
Analysis Batch: 529047

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 527005

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Diesel Range Organics (C10-C24)	<25		25	ug/L		01/27/25 18:31	02/03/25 00:04	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		01/27/25 18:31	02/03/25 00:04	1
C8-C18	<25		25	ug/L		01/27/25 18:31	02/03/25 00:04	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
n-Octacosane (Surr)	114		60 - 130	01/27/25 18:31	02/03/25 00:04	1

Lab Sample ID: LCS 570-527005/2-A
Matrix: Water
Analysis Batch: 529047

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 527005

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
C10-C28	1600	1620		ug/L		101	56 - 127

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
n-Octacosane (Surr)	111		60 - 130

Lab Sample ID: LCSD 570-527005/3-A
Matrix: Water
Analysis Batch: 529047

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 527005

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
		Result	Qualifier						
C10-C28	1600	1640		ug/L		102	56 - 127	1	23

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
n-Octacosane (Surr)	112		60 - 130

Lab Sample ID: MRL 570-527005/4-A
Matrix: Water
Analysis Batch: 529047

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 527005

Analyte	Spike Added	MRL	MRL	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
C10-C28	0.0200	<0.020		mg/L		98	50 - 150

Surrogate	MRL	MRL	Limits
	%Recovery	Qualifier	
n-Octacosane (Surr)	97		60 - 130

Lab Sample ID: 380-131757-1 MS
Matrix: Drinking Water
Analysis Batch: 529047

Client Sample ID: HALAWA WELLS UNITS 1 & 2 (331-206-TP065)
Prep Type: Total/NA
Prep Batch: 527005

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier		Result	Qualifier				
C10-C28	<26		1630	1690		ug/L		104	70 - 130

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
n-Octacosane (Surr)	109		60 - 130

QC Sample Results

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

Job ID: 380-131757-1
 SDG: Weekly

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

Lab Sample ID: 380-131757-1 MSD

Matrix: Drinking Water

Analysis Batch: 529047

Client Sample ID: HALAWA WELLS UNITS 1 & 2 (331-206-TP065)

Prep Type: Total/NA

Prep Batch: 527005

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28	<26		1630	1670		ug/L		103	70 - 130	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
<i>n-Octacosane (Surr)</i>	111		60 - 130								

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QC Association Summary

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

Job ID: 380-131757-1
SDG: Weekly

GC/MS Semi VOA

Prep Batch: 130212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-131757-1	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP065)	Total/NA	Drinking Water	525.2	
380-131757-2	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP400)	Total/NA	Drinking Water	525.2	
MB 380-130212/21-A	Method Blank	Total/NA	Water	525.2	
LCS 380-130212/23-A	Lab Control Sample	Total/NA	Water	525.2	
MRL 380-130212/22-A	Lab Control Sample	Total/NA	Water	525.2	
380-130632-Q-1-A MS	Matrix Spike	Total/NA	Water	525.2	
380-130655-O-1-A DU	Duplicate	Total/NA	Water	525.2	

Analysis Batch: 130440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-131757-1	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP065)	Total/NA	Drinking Water	525.2	130212
380-131757-2	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP400)	Total/NA	Drinking Water	525.2	130212
MB 380-130212/21-A	Method Blank	Total/NA	Water	525.2	130212
LCS 380-130212/23-A	Lab Control Sample	Total/NA	Water	525.2	130212
MRL 380-130212/22-A	Lab Control Sample	Total/NA	Water	525.2	130212
380-130632-Q-1-A MS	Matrix Spike	Total/NA	Water	525.2	130212
380-130655-O-1-A DU	Duplicate	Total/NA	Water	525.2	130212

Prep Batch: 526428

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-131757-1	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP065)	Total/NA	Drinking Water	625.1	
380-131757-2	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP400)	Total/NA	Drinking Water	625.1	
MB 570-526428/1-A	Method Blank	Total/NA	Water	625.1	
LCS 570-526428/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 570-526428/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	
380-131757-1 MS	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Total/NA	Drinking Water	625.1	
380-131757-1 MSD	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Total/NA	Drinking Water	625.1	

Analysis Batch: 529868

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-131757-1	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP065)	Total/NA	Drinking Water	625.1 SIM	526428
380-131757-2	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP400)	Total/NA	Drinking Water	625.1 SIM	526428
MB 570-526428/1-A	Method Blank	Total/NA	Water	625.1 SIM	526428
LCS 570-526428/2-A	Lab Control Sample	Total/NA	Water	625.1 SIM	526428
LCSD 570-526428/3-A	Lab Control Sample Dup	Total/NA	Water	625.1 SIM	526428
380-131757-1 MS	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Total/NA	Drinking Water	625.1 SIM	526428
380-131757-1 MSD	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Total/NA	Drinking Water	625.1 SIM	526428

Analysis Batch: 530137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-131757-1	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP065)	Total/NA	Drinking Water	625.1	526428
380-131757-2	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP400)	Total/NA	Drinking Water	625.1	526428
MB 570-526428/1-A	Method Blank	Total/NA	Water	625.1	526428

GC VOA

Analysis Batch: 527285

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-131757-1	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP065)	Total/NA	Drinking Water	8015B GRO LL	
380-131757-2	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP400)	Total/NA	Drinking Water	8015B GRO LL	
380-131757-3	TB: HALAWA WELLS UNITS 1&2 (331-206-TP065)	Total/NA	Water	8015B GRO LL	

QC Association Summary

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

Job ID: 380-131757-1
 SDG: Weekly

GC VOA (Continued)

Analysis Batch: 527285 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-131757-4	TB: AIEA WELLS PUMPS 1&2 (260) (331-203-TP400)	Total/NA	Water	8015B GRO LL	
MB 570-527285/10	Method Blank	Total/NA	Water	8015B GRO LL	
LCS 570-527285/1008	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-527285/9	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	
MRL 570-527285/1003	Lab Control Sample	Total/NA	Water	8015B GRO LL	
380-131757-1 MS	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Total/NA	Drinking Water	8015B GRO LL	
380-131757-1 MSD	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Total/NA	Drinking Water	8015B GRO LL	

GC Semi VOA

Prep Batch: 527005

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-131757-1	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP065)	Total/NA	Drinking Water	3510C	
380-131757-2	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP400)	Total/NA	Drinking Water	3510C	
MB 570-527005/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-527005/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-527005/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-527005/4-A	Lab Control Sample	Total/NA	Water	3510C	
380-131757-1 MS	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Total/NA	Drinking Water	3510C	
380-131757-1 MSD	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Total/NA	Drinking Water	3510C	

Analysis Batch: 529047

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-131757-1	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP065)	Total/NA	Drinking Water	8015B	527005
380-131757-2	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP400)	Total/NA	Drinking Water	8015B	527005
MB 570-527005/1-A	Method Blank	Total/NA	Water	8015B	527005
LCS 570-527005/2-A	Lab Control Sample	Total/NA	Water	8015B	527005
LCSD 570-527005/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	527005
MRL 570-527005/4-A	Lab Control Sample	Total/NA	Water	8015B	527005
380-131757-1 MS	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Total/NA	Drinking Water	8015B	527005
380-131757-1 MSD	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Total/NA	Drinking Water	8015B	527005

Lab Chronicle

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

Job ID: 380-131757-1
SDG: Weekly

**Client Sample ID: HALAWA WELLS UNITS 1 & 2 P1
(331-206-TP065)**

Lab Sample ID: 380-131757-1

Date Collected: 01/21/25 09:50

Matrix: Drinking Water

Date Received: 01/23/25 09:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			130212	OTM3	EA POM	01/24/25 09:25
Total/NA	Analysis	525.2		1	130440	Q8LA	EA POM	01/26/25 21:17
Total/NA	Prep	625.1			526428	UD4J	EET CAL 4	01/24/25 19:44
Total/NA	Analysis	625.1		1	530137	J7WE	EET CAL 4	02/05/25 10:51
Total/NA	Prep	625.1			526428	UD4J	EET CAL 4	01/24/25 19:44
Total/NA	Analysis	625.1 SIM		1	529868	J7WE	EET CAL 4	02/05/25 03:15
Total/NA	Analysis	8015B GRO LL		1	527285	W4LC	EET CAL 4	01/28/25 18:35
Total/NA	Prep	3510C			527005	TVD6	EET CAL 4	01/27/25 18:31
Total/NA	Analysis	8015B		1	529047	H6FE	EET CAL 4	02/03/25 01:52

**Client Sample ID: AIEA WELLS PUMPS 1&2 P2 (260)
(331-203-TP400)**

Lab Sample ID: 380-131757-2

Date Collected: 01/21/25 10:55

Matrix: Drinking Water

Date Received: 01/23/25 09:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			130212	OTM3	EA POM	01/24/25 09:25
Total/NA	Analysis	525.2		1	130440	Q8LA	EA POM	01/26/25 21:37
Total/NA	Prep	625.1			526428	UD4J	EET CAL 4	01/24/25 19:44
Total/NA	Analysis	625.1		1	530137	J7WE	EET CAL 4	02/05/25 11:15
Total/NA	Prep	625.1			526428	UD4J	EET CAL 4	01/24/25 19:44
Total/NA	Analysis	625.1 SIM		1	529868	J7WE	EET CAL 4	02/05/25 03:37
Total/NA	Analysis	8015B GRO LL		1	527285	W4LC	EET CAL 4	01/28/25 21:11
Total/NA	Prep	3510C			527005	TVD6	EET CAL 4	01/27/25 18:31
Total/NA	Analysis	8015B		1	529047	H6FE	EET CAL 4	02/03/25 02:56

**Client Sample ID: TB: HALAWA WELLS UNITS 1&2
(331-206-TP065)**

Lab Sample ID: 380-131757-3

Date Collected: 01/21/25 09:50

Matrix: Water

Date Received: 01/23/25 09:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	527285	W4LC	EET CAL 4	01/28/25 23:37

**Client Sample ID: TB: AIEA WELLS PUMPS 1&2 (260)
(331-203-TP400)**

Lab Sample ID: 380-131757-4

Date Collected: 01/21/25 10:55

Matrix: Water

Date Received: 01/23/25 09:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	527285	W4LC	EET CAL 4	01/29/25 00:01

Lab Chronicle

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

Job ID: 380-131757-1
SDG: Weekly

Laboratory References:

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

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Accreditation/Certification Summary

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

Job ID: 380-131757-1
 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	01-31-25

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: 380-131757-1
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
Washington	State	C916	10-11-25

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Method Summary

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

Job ID: 380-131757-1
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: 380-131757-1
SDG: Weekly

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
380-131757-1	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP065)	Drinking Water	01/21/25 09:50	01/23/25 09:37
380-131757-2	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP400)	Drinking Water	01/21/25 10:55	01/23/25 09:37
380-131757-3	TB: HALAWA WELLS UNITS 1&2 (331-206-TP065)	Water	01/21/25 09:50	01/23/25 09:37
380-131757-4	TB: AIEA WELLS PUMPS 1&2 (260) (331-203-TP400)	Water	01/21/25 10:55	01/23/25 09:37

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Chain of Custody Record

Client Information		Lab PM Arada, Rachelle		Carrier Tracking No(s)		COC No: 380-28005-2757 1							
Client Contact: Dr Ron Fenstermacher		E-Mail Rachelle.Arada@eurofins.com		State of Origin:		Page: Page 1 of 1							
Company: City & County of Honolulu		PWSID:		Analysis Requested		Job #:							
Address: 630 South Beretania Street Chemistry Lab Honolulu		Due Date Requested		533 - All Analytes		Preservation Codes: R - NaThioSO4 RA - NaThio/HCl Q - Na2SO3 QA - Na2SO3/HCl Y - Trizma I - NH4 Acetate							
State, Zip: HI, 96843		TAT Requested (days):		537 1_DW_PREC - 637 1 Full List		Other:							
Phone: 808-748-5091(Tel)		Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		525 2_PREC - (MOD) 525 Plus Plus TICs									
Email: RFENSTERMACHER@hbws.org		PO #: C20525101 exp 05312023		5015B_DRO_LL_CS - HNL Ranges C10-C24/C24-C36/C36-C18									
Project Name: RED-HILL/HBWS Sites Event Desc: RUSH Weekly Red Hill		WO #:		5015B_GRO_LL - (MOD) GRO									
Site: Hawaii		Project #: 38001111		625 1_625_1_SIM									
		SSOW#:		Perform MS/MSD (Yes or No)									
				Field Filtered Sample (Yes or No)									
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Preservation Code	Matrix (W=water, S=solid, O=water/soil, BT=Tissue, A=Air)	R	RA	Q	QA	Y	I	Total Number of Containers	Special Instructions/Note:
Halawa Wells Units 1 & 2 P1	21-Jan-2025	0950	G		Water	X	4	5	4	2			
Halawa Wells Units 1 & 2 (Matrix Spike)					Water	X	X	X					
Halawa Wells Units 1 & 2 (Matrix Spike Duplicate)					Water	X	X	X					
TB: Halawa Wells Units 1 & 2	21-Jan-2025	0950			Water		2						
Aiea Wells Pumps 1&2 (260) PZ	21-Jan-2025	1055	G		Water	2	3	2	2				
Aiea Wells Pumps 1&2 (260) (Matrix Spike)					Water								
Aiea Wells Pumps 1&2 (Matrix Spike Duplicate)					Water								
TB: Aiea Wells Pumps 1&2 (260)	21-Jan-2025	1055			Water		2						380-131757 COC
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological													Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Deliverable Requested: I, II, III, IV, Other (specify)													<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months
Empty Kit Relinquished by													Special Instructions/QC Requirements: 07716 0684 817 ② 7716 0684 8128
Relinquish													Method of Shipment: FEDEX ③ 7716 0684 8139
Relinquish recy													Date/Time: 01/23/25 09:57 Company: HBWS
Relinquished by													Date/Time: _____ Company: _____
Custody Seals Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No													Date/Time: _____ Company: _____
Cooler Temperature(s) °C and Other Remarks: (75TA) ① 1.6 °C ② 1.6 °C ③ 2.5 °C ④ 2.5 °C ⑤ 3.4 °C ⑥ 3.4 °C													Ver: 04/02/2024



Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler: N/A	Lab Pk#: Arada, Rachelle	Carrier Tracking No(s): 380-165322.1									
Client Contact: N/A		Phone: N/A	E-Mail: Rachelle.Arada@eurofins.com	State of Origin: Hawaii									
Shipping/Receiving		Company: Eurofins Environment Testing Southwest	Accreditations Required (See note): State - Hawaii	Job #: 380-131757-1									
Address: 2841 Dow Avenue, Suite 100		Due Date Requested: 2/5/2025	Preservation Codes:										
City: Tustin		TAT Requested (days): N/A	Analysis Requested										
State, Zip: CA, 92780		PO #: N/A	380-131757 Chain of Custody										
Phone: 714-895-5494(Tel)		WO #: N/A											
Email: N/A		Project #: 38001111											
Site: Honolulu BWS Sites		SSOW#: N/A											
Sample Identification	Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Solid, Composite)	Field Filtered Sample (Yes or No)	Perform MSMSD (Yes or No)	60158 DRO, LL, CS/510C, LL HNL Ranges: C16, C24/C24-C36/C8-C18	625.1 SIM/625 Prep (MOD) Extended PAH List	625.1/625 Prep (MOD) Tentatively Identified Compounds (Hold)	60158 GRO, LL/6038C (MOD) GRO	Total Number of Containers	Special Instructions/Note:
HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	(380-131757-1)	1/21/25	09:50 Hawaiian	G	Water	X	X	X	X	X	X	7	MRLs are needed. Confirm any hits >RL.
HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	(380-131757-1)	1/21/25	09:50 Hawaiian	G	Water	X	X	X	X	X	X	3	MRLs are needed. Confirm any hits >RL.
HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	(380-131757-1)	1/21/25	09:50 Hawaiian	G	Water	X	X	X	X	X	X	3	MRLs are needed. Confirm any hits >RL.
AIEA WELLS PUMPS 182 (260) (331-203-TP400)	(380-131757-2)	1/21/25	10:55 Hawaiian	G	Water	X	X	X	X	X	X	7	MRLs are needed. Confirm any hits >RL.
TE: HALAWA WELLS UNITS 182 (331-206-TP065)	(380-131757)	1/21/25	09:50 Hawaiian	G	Water	X	X	X	X	X	X	2	MRLs are needed.
TE: AIEA WELLS PUMPS 182 (260) (331-203-TP400)	(380-1317)	1/21/25	10:55 Hawaiian	G	Water	X	X	X	X	X	X	2	MRLs are needed.

Note: Since laboratory accreditations are subject to change, Eurofins Eaton Analytical, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Eaton Analytical, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Eaton Analytical, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Eaton Analytical, LLC.

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV Other (specify) Primary Deliverable Rank: 2

Special Instructions/QC Requirements:
 Return To Client Disposal By Lab Archive For _____ Months

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Date/Time: 1/24/25	Company: [Signature]	Date/Time: 1/24/25	Company: [Signature]
Date/Time: [Signature]	Company: [Signature]	Date/Time: [Signature]	Company: [Signature]
Date/Time: [Signature]	Company: [Signature]	Date/Time: [Signature]	Company: [Signature]

Cooler Temperature(s) °C and Other Remarks: 08/105/14



Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-131757-1

SDG Number: Weekly

Login Number: 131757

List Number: 1

Creator: Ngo, Theodore

List Source: Eurofins Eaton Analytical Pomona

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



Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-131757-1

SDG Number: Weekly

Login Number: 131757

List Number: 2

Creator: Khana, Piyush

List Source: Eurofins Calscience

List Creation: 01/24/25 03:00 PM

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	