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ANALYTICAL REPORT

PREPARED FOR

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JOB DESCRIPTION

RED-HILL
Weekly

JOB NUMBER

380-122227-1

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: 380-122227-1
SDG: Weekly

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
^3+	Reporting Limit Check Standard is outside acceptance limits, high biased
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA TICs

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

GC Semi VOA

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

Glossary

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

Case Narrative

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

Job ID: 380-122227-1

Job ID: 380-122227-1

Eurofins Eaton Analytical Pomona

Job Narrative 380-122227-1

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 11/14/2024 10:12 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.1°C and 1.9°C.

Receipt Exceptions

One or more containers for the following sample was received broken or leaking: TB: HALAWA WELLS UNITS 1&2 (331-206-TP065) (380-122227-4). 1 of 2 8015 TB vials received broken.

GC/MS Semi VOA

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

Gasoline Range Organics

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

Diesel Range Organics

Method 8015B_DRO_LL_CS: The method reporting limit check (MRL) for preparation batch 570-504083 and analytical batch 570-508306 recovered outside control limits for the following analytes: C10-C28. These analytes were biased high in the MRL and were not detected in the associated samples; therefore, the data have been reported.

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

Detection Summary

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

Job ID: 380-122227-1
SDG: Weekly

Client Sample ID: Ka'amilo Wells

Lab Sample ID: 380-122227-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Dieldrin	0.022		0.0096	ug/L	1		525.2	Total/NA

Client Sample ID: TB: Ka'amilo Wells

Lab Sample ID: 380-122227-2

No Detections.

Client Sample ID: HALAWA WELLS UNITS 1 & 2 P1

Lab Sample ID: 380-122227-3

(331-206-TP065)

PWSID Number: HI0000331

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Dieldrin	0.043		0.0096	ug/L	1		525.2	Total/NA
Heptachlor epoxide (isomer B)	0.014		0.0096	ug/L	1		525.2	Total/NA

Client Sample ID: TB: HALAWA WELLS UNITS 1&2

Lab Sample ID: 380-122227-4

(331-206-TP065)

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: 380-122227-1
SDG: Weekly

Client Sample ID: Ka'amilo Wells

Lab Sample ID: 380-122227-1

Date Collected: 11/12/24 11:08

Matrix: Water

Date Received: 11/14/24 10:12

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		11/20/24 08:01	11/21/24 17:02	1
2,4'-DDD	<0.096		0.096	ug/L		11/20/24 08:01	11/21/24 17:02	1
2,4'-DDE	<0.096		0.096	ug/L		11/20/24 08:01	11/21/24 17:02	1
2,4'-DDT	<0.096		0.096	ug/L		11/20/24 08:01	11/21/24 17:02	1
2,4-Dinitrotoluene	<0.096		0.096	ug/L		11/20/24 08:01	11/21/24 17:02	1
2,6-Dinitrotoluene	<0.096		0.096	ug/L		11/20/24 08:01	11/21/24 17:02	1
2-Methylnaphthalene	<0.096		0.096	ug/L		11/20/24 08:01	11/21/24 17:02	1
4,4'-DDD	<0.096		0.096	ug/L		11/20/24 08:01	11/21/24 17:02	1
4,4'-DDE	<0.096		0.096	ug/L		11/20/24 08:01	11/21/24 17:02	1
4,4'-DDT	<0.096		0.096	ug/L		11/20/24 08:01	11/21/24 17:02	1
Acenaphthene	<0.096		0.096	ug/L		11/20/24 08:01	11/21/24 17:02	1
Acenaphthylene	<0.096		0.096	ug/L		11/20/24 08:01	11/21/24 17:02	1
Acetochlor	<0.096		0.096	ug/L		11/20/24 08:01	11/21/24 17:02	1
Alachlor	<0.048		0.048	ug/L		11/20/24 08:01	11/21/24 17:02	1
alpha-BHC	<0.096		0.096	ug/L		11/20/24 08:01	11/21/24 17:02	1
alpha-Chlordane	<0.048		0.048	ug/L		11/20/24 08:01	11/21/24 17:02	1
Anthracene	<0.019		0.019	ug/L		11/20/24 08:01	11/21/24 17:02	1
Atrazine	<0.048		0.048	ug/L		11/20/24 08:01	11/21/24 17:02	1
Benz(a)anthracene	<0.048		0.048	ug/L		11/20/24 08:01	11/21/24 17:02	1
Benzo[a]pyrene	<0.019		0.019	ug/L		11/20/24 08:01	11/21/24 17:02	1
Benzo[b]fluoranthene	<0.019		0.019	ug/L		11/20/24 08:01	11/21/24 17:02	1
Benzo[g,h,i]perylene	<0.048		0.048	ug/L		11/20/24 08:01	11/21/24 17:02	1
Benzo[k]fluoranthene	<0.019		0.019	ug/L		11/20/24 08:01	11/21/24 17:02	1
beta-BHC	<0.096		0.096	ug/L		11/20/24 08:01	11/21/24 17:02	1
Bis(2-ethylhexyl) phthalate	<0.58		0.58	ug/L		11/20/24 08:01	11/21/24 17:02	1
Bromacil	<0.096		0.096	ug/L		11/20/24 08:01	11/21/24 17:02	1
Butachlor	<0.048		0.048	ug/L		11/20/24 08:01	11/21/24 17:02	1
Butylbenzylphthalate	<0.48		0.48	ug/L		11/20/24 08:01	11/21/24 17:02	1
Chlorobenzilate	<0.096		0.096	ug/L		11/20/24 08:01	11/21/24 17:02	1
Chloroneb	<0.096		0.096	ug/L		11/20/24 08:01	11/21/24 17:02	1
Chlorothalonil (Draconil, Bravo)	<0.096		0.096	ug/L		11/20/24 08:01	11/21/24 17:02	1
Chlorpyrifos	<0.048		0.048	ug/L		11/20/24 08:01	11/21/24 17:02	1
Chrysene	<0.019		0.019	ug/L		11/20/24 08:01	11/21/24 17:02	1
delta-BHC	<0.096		0.096	ug/L		11/20/24 08:01	11/21/24 17:02	1
Di(2-ethylhexyl)adipate	<0.58		0.58	ug/L		11/20/24 08:01	11/21/24 17:02	1
Dibenz(a,h)anthracene	<0.048		0.048	ug/L		11/20/24 08:01	11/21/24 17:02	1
Diclorvos (DDVP)	<0.048		0.048	ug/L		11/20/24 08:01	11/21/24 17:02	1
Dieldrin	0.022		0.0096	ug/L		11/20/24 08:01	11/21/24 17:02	1
Diethylphthalate	<0.48		0.48	ug/L		11/20/24 08:01	11/21/24 17:02	1
Dimethylphthalate	<0.48		0.48	ug/L		11/20/24 08:01	11/21/24 17:02	1
Di-n-butyl phthalate	<0.96		0.96	ug/L		11/20/24 08:01	11/21/24 17:02	1
Di-n-octyl phthalate	<0.096		0.096	ug/L		11/20/24 08:01	11/21/24 17:02	1
Endosulfan I (Alpha)	<0.096		0.096	ug/L		11/20/24 08:01	11/21/24 17:02	1
Endosulfan II (Beta)	<0.096		0.096	ug/L		11/20/24 08:01	11/21/24 17:02	1
Endosulfan sulfate	<0.096		0.096	ug/L		11/20/24 08:01	11/21/24 17:02	1
Endrin	<0.0096		0.0096	ug/L		11/20/24 08:01	11/21/24 17:02	1
Endrin aldehyde	<0.096		0.096	ug/L		11/20/24 08:01	11/21/24 17:02	1
EPTC	<0.096		0.096	ug/L		11/20/24 08:01	11/21/24 17:02	1
Fluoranthene	<0.096		0.096	ug/L		11/20/24 08:01	11/21/24 17:02	1

Client Sample Results

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

Job ID: 380-122227-1
SDG: Weekly

Client Sample ID: Ka'amilo Wells

Lab Sample ID: 380-122227-1

Date Collected: 11/12/24 11:08

Matrix: Water

Date Received: 11/14/24 10:12

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	<0.048		0.048	ug/L		11/20/24 08:01	11/21/24 17:02	1
gamma-Chlordane	<0.048		0.048	ug/L		11/20/24 08:01	11/21/24 17:02	1
Heptachlor	<0.0096		0.0096	ug/L		11/20/24 08:01	11/21/24 17:02	1
Heptachlor epoxide (isomer B)	<0.0096		0.0096	ug/L		11/20/24 08:01	11/21/24 17:02	1
Hexachlorobenzene	<0.048		0.048	ug/L		11/20/24 08:01	11/21/24 17:02	1
Hexachlorocyclopentadiene	<0.048		0.048	ug/L		11/20/24 08:01	11/21/24 17:02	1
Indeno[1,2,3-cd]pyrene	<0.048		0.048	ug/L		11/20/24 08:01	11/21/24 17:02	1
Isophorone	<0.096		0.096	ug/L		11/20/24 08:01	11/21/24 17:02	1
Lindane	<0.0096	^3+	0.0096	ug/L		11/20/24 08:01	11/21/24 17:02	1
Malathion	<0.096		0.096	ug/L		11/20/24 08:01	11/21/24 17:02	1
Methoxychlor	<0.048		0.048	ug/L		11/20/24 08:01	11/21/24 17:02	1
Metolachlor	<0.048		0.048	ug/L		11/20/24 08:01	11/21/24 17:02	1
Molinate	<0.096		0.096	ug/L		11/20/24 08:01	11/21/24 17:02	1
Naphthalene	<0.096		0.096	ug/L		11/20/24 08:01	11/21/24 17:02	1
Parathion	<0.096		0.096	ug/L		11/20/24 08:01	11/21/24 17:02	1
Pendimethalin (Penoxaline)	<0.096		0.096	ug/L		11/20/24 08:01	11/21/24 17:02	1
Phenanthrene	<0.039		0.039	ug/L		11/20/24 08:01	11/21/24 17:02	1
Propachlor	<0.048		0.048	ug/L		11/20/24 08:01	11/21/24 17:02	1
Pyrene	<0.048		0.048	ug/L		11/20/24 08:01	11/21/24 17:02	1
Simazine	<0.048		0.048	ug/L		11/20/24 08:01	11/21/24 17:02	1
Terbacil	<0.096		0.096	ug/L		11/20/24 08:01	11/21/24 17:02	1
Terbutylazine	<0.096		0.096	ug/L		11/20/24 08:01	11/21/24 17:02	1
Thiobencarb	<0.096		0.096	ug/L		11/20/24 08:01	11/21/24 17:02	1
Total Permethrin (mixed isomers)	<0.19		0.19	ug/L		11/20/24 08:01	11/21/24 17:02	1
trans-Nonachlor	<0.048		0.048	ug/L		11/20/24 08:01	11/21/24 17:02	1
Trifluralin	<0.096		0.096	ug/L		11/20/24 08:01	11/21/24 17:02	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	11/20/24 08:01	11/21/24 17:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	95		70 - 130	11/20/24 08:01	11/21/24 17:02	1
Perylene-d12	95		70 - 130	11/20/24 08:01	11/21/24 17:02	1
Triphenylphosphate	102		70 - 130	11/20/24 08:01	11/21/24 17:02	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		11/18/24 09:17	11/22/24 22:04	1
2-Methylnaphthalene	<0.19		0.19	ug/L		11/18/24 09:17	11/22/24 22:04	1
Acenaphthene	<0.19		0.19	ug/L		11/18/24 09:17	11/22/24 22:04	1
Acenaphthylene	<0.19		0.19	ug/L		11/18/24 09:17	11/22/24 22:04	1
Anthracene	<0.19		0.19	ug/L		11/18/24 09:17	11/22/24 22:04	1
Benzo[a]anthracene	<0.19		0.19	ug/L		11/18/24 09:17	11/22/24 22:04	1
Benzo[a]pyrene	<0.19		0.19	ug/L		11/18/24 09:17	11/22/24 22:04	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		11/18/24 09:17	11/22/24 22:04	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		11/18/24 09:17	11/22/24 22:04	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		11/18/24 09:17	11/22/24 22:04	1
Chrysene	<0.19		0.19	ug/L		11/18/24 09:17	11/22/24 22:04	1
Dibenz(a,h)anthracene	<0.19		0.19	ug/L		11/18/24 09:17	11/22/24 22:04	1
Fluoranthene	<0.19		0.19	ug/L		11/18/24 09:17	11/22/24 22:04	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-122227-1
SDG: Weekly

Client Sample ID: Ka'amilo Wells

Lab Sample ID: 380-122227-1

Date Collected: 11/12/24 11:08

Matrix: Water

Date Received: 11/14/24 10:12

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	<0.19		0.19	ug/L		11/18/24 09:17	11/22/24 22:04	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		11/18/24 09:17	11/22/24 22:04	1
Naphthalene	<0.19		0.19	ug/L		11/18/24 09:17	11/22/24 22:04	1
Phenanthrene	<0.19		0.19	ug/L		11/18/24 09:17	11/22/24 22:04	1
Pyrene	<0.19		0.19	ug/L		11/18/24 09:17	11/22/24 22:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	96		28 - 127	11/18/24 09:17	11/22/24 22:04	1
2-Fluorobiphenyl (Surr)	71		31 - 120	11/18/24 09:17	11/22/24 22:04	1
2-Fluorophenol (Surr)	81		17 - 120	11/18/24 09:17	11/22/24 22:04	1
Nitrobenzene-d5 (Surr)	84		27 - 120	11/18/24 09:17	11/22/24 22:04	1
Phenol-d6 (Surr)	44		10 - 120	11/18/24 09:17	11/22/24 22:04	1
p-Terphenyl-d14 (Surr)	72		45 - 120	11/18/24 09:17	11/22/24 22:04	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
Heptane	130	T J N	ug/L		2.25	142-82-5	11/18/24 09:17	12/04/24 19:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	103		33 - 139	11/18/24 09:17	12/04/24 19:14	1
2-Fluorobiphenyl (Surr)	83		33 - 126	11/18/24 09:17	12/04/24 19:14	1
2-Fluorophenol (Surr)	47		12 - 120	11/18/24 09:17	12/04/24 19:14	1
Nitrobenzene-d5 (Surr)	91		36 - 120	11/18/24 09:17	12/04/24 19:14	1
Phenol-d6 (Surr)	32		10 - 120	11/18/24 09:17	12/04/24 19:14	1
p-Terphenyl-d14 (Surr)	90		47 - 131	11/18/24 09:17	12/04/24 19:14	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			11/25/24 13:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		38 - 134		11/25/24 13:18	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		11/16/24 11:42	11/27/24 18:33	1
Motor Oil Range Organics [C24-C36]	<26		26	ug/L		11/16/24 11:42	11/27/24 18:33	1
C8-C18	<26		26	ug/L		11/16/24 11:42	11/27/24 18:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	113		60 - 130	11/16/24 11:42	11/27/24 18:33	1

Client Sample ID: TB: Ka'amilo Wells

Lab Sample ID: 380-122227-2

Date Collected: 11/12/24 11:08

Matrix: Water

Date Received: 11/14/24 10:12

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			11/25/24 16:26	1

Client Sample Results

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

Job ID: 380-122227-1
SDG: Weekly

Client Sample ID: TB: Ka'amilo Wells

Lab Sample ID: 380-122227-2

Date Collected: 11/12/24 11:08

Matrix: Water

Date Received: 11/14/24 10:12

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		38 - 134		11/25/24 16:26	1

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

Lab Sample ID: 380-122227-3

Date Collected: 11/12/24 09:48

Matrix: Drinking Water

Date Received: 11/14/24 10:12

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.096		0.096	ug/L		11/20/24 08:01	11/21/24 17:22	1
2,4'-DDD	<0.096		0.096	ug/L		11/20/24 08:01	11/21/24 17:22	1
2,4'-DDE	<0.096		0.096	ug/L		11/20/24 08:01	11/21/24 17:22	1
2,4'-DDT	<0.096		0.096	ug/L		11/20/24 08:01	11/21/24 17:22	1
2,4-Dinitrotoluene	<0.096		0.096	ug/L		11/20/24 08:01	11/21/24 17:22	1
2,6-Dinitrotoluene	<0.096		0.096	ug/L		11/20/24 08:01	11/21/24 17:22	1
2-Methylnaphthalene	<0.096		0.096	ug/L		11/20/24 08:01	11/21/24 17:22	1
4,4'-DDD	<0.096		0.096	ug/L		11/20/24 08:01	11/21/24 17:22	1
4,4'-DDE	<0.096		0.096	ug/L		11/20/24 08:01	11/21/24 17:22	1
4,4'-DDT	<0.096		0.096	ug/L		11/20/24 08:01	11/21/24 17:22	1
Acenaphthene	<0.096		0.096	ug/L		11/20/24 08:01	11/21/24 17:22	1
Acenaphthylene	<0.096		0.096	ug/L		11/20/24 08:01	11/21/24 17:22	1
Acetochlor	<0.096		0.096	ug/L		11/20/24 08:01	11/21/24 17:22	1
Alachlor	<0.048		0.048	ug/L		11/20/24 08:01	11/21/24 17:22	1
alpha-BHC	<0.096		0.096	ug/L		11/20/24 08:01	11/21/24 17:22	1
alpha-Chlordane	<0.048		0.048	ug/L		11/20/24 08:01	11/21/24 17:22	1
Anthracene	<0.019		0.019	ug/L		11/20/24 08:01	11/21/24 17:22	1
Atrazine	<0.048		0.048	ug/L		11/20/24 08:01	11/21/24 17:22	1
Benz(a)anthracene	<0.048		0.048	ug/L		11/20/24 08:01	11/21/24 17:22	1
Benzo[a]pyrene	<0.019		0.019	ug/L		11/20/24 08:01	11/21/24 17:22	1
Benzo[b]fluoranthene	<0.019		0.019	ug/L		11/20/24 08:01	11/21/24 17:22	1
Benzo[g,h,i]perylene	<0.048		0.048	ug/L		11/20/24 08:01	11/21/24 17:22	1
Benzo[k]fluoranthene	<0.019		0.019	ug/L		11/20/24 08:01	11/21/24 17:22	1
beta-BHC	<0.096		0.096	ug/L		11/20/24 08:01	11/21/24 17:22	1
Bis(2-ethylhexyl) phthalate	<0.58		0.58	ug/L		11/20/24 08:01	11/21/24 17:22	1
Bromacil	<0.096		0.096	ug/L		11/20/24 08:01	11/21/24 17:22	1
Butachlor	<0.048		0.048	ug/L		11/20/24 08:01	11/21/24 17:22	1
Butylbenzylphthalate	<0.48		0.48	ug/L		11/20/24 08:01	11/21/24 17:22	1
Chlorobenzilate	<0.096		0.096	ug/L		11/20/24 08:01	11/21/24 17:22	1
Chloroneb	<0.096		0.096	ug/L		11/20/24 08:01	11/21/24 17:22	1
Chlorothalonil (Draconil, Bravo)	<0.096		0.096	ug/L		11/20/24 08:01	11/21/24 17:22	1
Chlorpyrifos	<0.048		0.048	ug/L		11/20/24 08:01	11/21/24 17:22	1
Chrysene	<0.019		0.019	ug/L		11/20/24 08:01	11/21/24 17:22	1
delta-BHC	<0.096		0.096	ug/L		11/20/24 08:01	11/21/24 17:22	1
Di(2-ethylhexyl)adipate	<0.58		0.58	ug/L		11/20/24 08:01	11/21/24 17:22	1
Dibenz(a,h)anthracene	<0.048		0.048	ug/L		11/20/24 08:01	11/21/24 17:22	1
Diclorvos (DDVP)	<0.048		0.048	ug/L		11/20/24 08:01	11/21/24 17:22	1
Dieldrin	0.043		0.0096	ug/L		11/20/24 08:01	11/21/24 17:22	1
Diethylphthalate	<0.48		0.48	ug/L		11/20/24 08:01	11/21/24 17:22	1
Dimethylphthalate	<0.48		0.48	ug/L		11/20/24 08:01	11/21/24 17:22	1
Di-n-butyl phthalate	<0.96		0.96	ug/L		11/20/24 08:01	11/21/24 17:22	1

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Client Sample Results

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

Job ID: 380-122227-1
SDG: Weekly

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

Lab Sample ID: 380-122227-3

Date Collected: 11/12/24 09:48

Matrix: Drinking Water

Date Received: 11/14/24 10:12

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate	<0.096		0.096	ug/L		11/20/24 08:01	11/21/24 17:22	1
Endosulfan I (Alpha)	<0.096		0.096	ug/L		11/20/24 08:01	11/21/24 17:22	1
Endosulfan II (Beta)	<0.096		0.096	ug/L		11/20/24 08:01	11/21/24 17:22	1
Endosulfan sulfate	<0.096		0.096	ug/L		11/20/24 08:01	11/21/24 17:22	1
Endrin	<0.0096		0.0096	ug/L		11/20/24 08:01	11/21/24 17:22	1
Endrin aldehyde	<0.096		0.096	ug/L		11/20/24 08:01	11/21/24 17:22	1
EPTC	<0.096		0.096	ug/L		11/20/24 08:01	11/21/24 17:22	1
Fluoranthene	<0.096		0.096	ug/L		11/20/24 08:01	11/21/24 17:22	1
Fluorene	<0.048		0.048	ug/L		11/20/24 08:01	11/21/24 17:22	1
gamma-Chlordane	<0.048		0.048	ug/L		11/20/24 08:01	11/21/24 17:22	1
Heptachlor	<0.0096		0.0096	ug/L		11/20/24 08:01	11/21/24 17:22	1
Heptachlor epoxide (isomer B)	0.014		0.0096	ug/L		11/20/24 08:01	11/21/24 17:22	1
Hexachlorobenzene	<0.048		0.048	ug/L		11/20/24 08:01	11/21/24 17:22	1
Hexachlorocyclopentadiene	<0.048		0.048	ug/L		11/20/24 08:01	11/21/24 17:22	1
Indeno[1,2,3-cd]pyrene	<0.048		0.048	ug/L		11/20/24 08:01	11/21/24 17:22	1
Isophorone	<0.096		0.096	ug/L		11/20/24 08:01	11/21/24 17:22	1
Lindane	<0.0096	^3+	0.0096	ug/L		11/20/24 08:01	11/21/24 17:22	1
Malathion	<0.096		0.096	ug/L		11/20/24 08:01	11/21/24 17:22	1
Methoxychlor	<0.048		0.048	ug/L		11/20/24 08:01	11/21/24 17:22	1
Metolachlor	<0.048		0.048	ug/L		11/20/24 08:01	11/21/24 17:22	1
Molinate	<0.096		0.096	ug/L		11/20/24 08:01	11/21/24 17:22	1
Naphthalene	<0.096		0.096	ug/L		11/20/24 08:01	11/21/24 17:22	1
Parathion	<0.096		0.096	ug/L		11/20/24 08:01	11/21/24 17:22	1
Pendimethalin (Penoxaline)	<0.096		0.096	ug/L		11/20/24 08:01	11/21/24 17:22	1
Phenanthrene	<0.039		0.039	ug/L		11/20/24 08:01	11/21/24 17:22	1
Propachlor	<0.048		0.048	ug/L		11/20/24 08:01	11/21/24 17:22	1
Pyrene	<0.048		0.048	ug/L		11/20/24 08:01	11/21/24 17:22	1
Simazine	<0.048		0.048	ug/L		11/20/24 08:01	11/21/24 17:22	1
Terbacil	<0.096		0.096	ug/L		11/20/24 08:01	11/21/24 17:22	1
Terbutylazine	<0.096		0.096	ug/L		11/20/24 08:01	11/21/24 17:22	1
Thiobencarb	<0.096		0.096	ug/L		11/20/24 08:01	11/21/24 17:22	1
Total Permethrin (mixed isomers)	<0.19		0.19	ug/L		11/20/24 08:01	11/21/24 17:22	1
trans-Nonachlor	<0.048		0.048	ug/L		11/20/24 08:01	11/21/24 17:22	1
Trifluralin	<0.096		0.096	ug/L		11/20/24 08:01	11/21/24 17:22	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	11/20/24 08:01	11/21/24 17:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	96		70 - 130	11/20/24 08:01	11/21/24 17:22	1
Perylene-d12	95		70 - 130	11/20/24 08:01	11/21/24 17:22	1
Triphenylphosphate	102		70 - 130	11/20/24 08:01	11/21/24 17:22	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		11/18/24 09:17	11/22/24 20:36	1
2-Methylnaphthalene	<0.19		0.19	ug/L		11/18/24 09:17	11/22/24 20:36	1
Acenaphthene	<0.19		0.19	ug/L		11/18/24 09:17	11/22/24 20:36	1
Acenaphthylene	<0.19		0.19	ug/L		11/18/24 09:17	11/22/24 20:36	1

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Client Sample Results

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

Job ID: 380-122227-1
SDG: Weekly

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

Lab Sample ID: 380-122227-3

Date Collected: 11/12/24 09:48

Matrix: Drinking Water

Date Received: 11/14/24 10:12

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	<0.19		0.19	ug/L		11/18/24 09:17	11/22/24 20:36	1
Benzo[a]anthracene	<0.19		0.19	ug/L		11/18/24 09:17	11/22/24 20:36	1
Benzo[a]pyrene	<0.19		0.19	ug/L		11/18/24 09:17	11/22/24 20:36	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		11/18/24 09:17	11/22/24 20:36	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		11/18/24 09:17	11/22/24 20:36	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		11/18/24 09:17	11/22/24 20:36	1
Chrysene	<0.19		0.19	ug/L		11/18/24 09:17	11/22/24 20:36	1
Dibenz(a,h)anthracene	<0.19		0.19	ug/L		11/18/24 09:17	11/22/24 20:36	1
Fluoranthene	<0.19		0.19	ug/L		11/18/24 09:17	11/22/24 20:36	1
Fluorene	<0.19		0.19	ug/L		11/18/24 09:17	11/22/24 20:36	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		11/18/24 09:17	11/22/24 20:36	1
Naphthalene	<0.19		0.19	ug/L		11/18/24 09:17	11/22/24 20:36	1
Phenanthrene	<0.19		0.19	ug/L		11/18/24 09:17	11/22/24 20:36	1
Pyrene	<0.19		0.19	ug/L		11/18/24 09:17	11/22/24 20:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	99		28 - 127			11/18/24 09:17	11/22/24 20:36	1
2-Fluorobiphenyl (Surr)	71		31 - 120			11/18/24 09:17	11/22/24 20:36	1
2-Fluorophenol (Surr)	60		17 - 120			11/18/24 09:17	11/22/24 20:36	1
Nitrobenzene-d5 (Surr)	74		27 - 120			11/18/24 09:17	11/22/24 20:36	1
Phenol-d6 (Surr)	29		10 - 120			11/18/24 09:17	11/22/24 20:36	1
p-Terphenyl-d14 (Surr)	76		45 - 120			11/18/24 09:17	11/22/24 20:36	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
Heptane	93	T J N	ug/L		2.25	142-82-5	11/18/24 09:17	12/04/24 19:38	1
Unknown	4.0	T J	ug/L		2.51	N/A	11/18/24 09:17	12/04/24 19:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	98		33 - 139				11/18/24 09:17	12/04/24 19:38	1
2-Fluorobiphenyl (Surr)	85		33 - 126				11/18/24 09:17	12/04/24 19:38	1
2-Fluorophenol (Surr)	52		12 - 120				11/18/24 09:17	12/04/24 19:38	1
Nitrobenzene-d5 (Surr)	88		36 - 120				11/18/24 09:17	12/04/24 19:38	1
Phenol-d6 (Surr)	34		10 - 120				11/18/24 09:17	12/04/24 19:38	1
p-Terphenyl-d14 (Surr)	92		47 - 131				11/18/24 09:17	12/04/24 19:38	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			11/25/24 13:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		38 - 134				11/25/24 13:44	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		11/16/24 11:42	11/27/24 18:54	1
Motor Oil Range Organics [C24-C36]	<26		26	ug/L		11/16/24 11:42	11/27/24 18:54	1
C8-C18	<26		26	ug/L		11/16/24 11:42	11/27/24 18:54	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-122227-1
 SDG: Weekly

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

Lab Sample ID: 380-122227-3

Date Collected: 11/12/24 09:48

Matrix: Drinking Water

Date Received: 11/14/24 10:12

PWSID Number: HI0000331

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>n-Octacosane (Surr)</i>	108		60 - 130	11/16/24 11:42	11/27/24 18:54	1

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

Lab Sample ID: 380-122227-4

Date Collected: 11/12/24 09:48

Matrix: Water

Date Received: 11/14/24 10:12

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			11/25/24 16:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>4-Bromofluorobenzene (Surr)</i>	84		38 - 134		11/25/24 16:52	1

Action Limit Summary

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

Job ID: 380-122227-1
SDG: Weekly

Client Sample ID: Ka'amilo Wells

Lab Sample ID: 380-122227-1

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		Method	Prep Type
				Limit	RL		
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	^3+	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

Client Sample ID: HALAWA WELLS UNITS 1 & 2 P1

Lab Sample ID: 380-122227-3

(331-206-TP065)

PWSID Number: HI0000331

Compliance Check

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

Analyte	Result	Qualifier	Unit	EPAMCL		Method	Prep Type
				Limit	RL		
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)	0.014		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	^3+	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: 380-122227-1
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)
380-122227-3	HALAWA WELLS UNITS 1 & 2 P1 (;	96	95	102

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)
380-121839-R-1-A DU	Duplicate	97	99	103
380-122132-AD-1-A MS	Matrix Spike	96	96	104
380-122227-1	Ka'amilo Wells	95	95	102
LCS 380-119846/23-A	Lab Control Sample	94	95	100
LCS 380-119846/24-A	Lab Control Sample Dup	97	94	100
MB 380-119846/21-A	Method Blank	96	93	106
MRL 380-119846/22-A	Lab Control Sample	97	90	99

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)
380-122227-3	HALAWA WELLS UNITS 1 & 2 P1 (;	98	85	52	88	34	92

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)
380-122227-1	Ka'amilo Wells	103	83	47	91	32	90
MB 570-504385/1-A	Method Blank	89	72	50	76	33	86

Surrogate Legend

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

Surrogate Summary

Client: City & County of Honolulu

Job ID: 380-122227-1

Project/Site: RED-HILL

SDG: Weekly

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)
380-122227-3	HALAWA WELLS UNITS 1 & 2 P1 (99	71	60	74	29	76
380-122227-3 MS	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	96	74	67	69	34	79
380-122227-3 MSD	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	91	77	59	73	32	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)
380-122227-1	Ka'amilo Wells	96	71	81	84	44	72
LCS 570-504385/2-A	Lab Control Sample	87	72	58	65	34	77
LCS 570-504385/3-A	Lab Control Sample Dup	92	68	64	64	36	84
MB 570-504385/1-A	Method Blank	80	58	48	64	28	66

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)
380-122227-3	HALAWA WELLS UNITS 1 & 2 P1 (89
380-122227-3 MS	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	97
380-122227-3 MSD	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	98

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

Surrogate Summary

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

Job ID: 380-122227-1
SDG: Weekly

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (38-134)
380-122227-1	Ka'amilo Wells	90
380-122227-2	TB: Ka'amilo Wells	88
380-122227-4	TB: HALAWA WELLS UNITS 1&2 (331-206-TP065)	84
LCS 570-507194/4	Lab Control Sample	96
LCSD 570-507194/5	Lab Control Sample Dup	96
MB 570 507194/6	Method Blank	94
MRL 570-507194/3	Lab Control Sample	91

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)
380-122227-3	HALAWA WELLS UNITS 1 & 2 P1 (:	108
380-122227-3 MS	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	112
380-122227-3 MSD	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	116

Surrogate Legend

OTCSN = n-Octacosane (Surr)

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	OTCSN1 (60-130)
380-122227-1	Ka'amilo Wells	113
LCS 570-504083/2-A	Lab Control Sample	112
LCSD 570-504083/3-A	Lab Control Sample Dup	113
MB 570-504083/1-A	Method Blank	112
MRL 570-504083/4-A	Lab Control Sample	119

Surrogate Legend

OTCSN = n-Octacosane (Surr)

QC Sample Results

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

Job ID: 380-122227-1
 SDG: Weekly

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

Lab Sample ID: MB 380-119846/21-A
Matrix: Water
Analysis Batch: 120072

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 119846

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1-Methylnaphthalene	<0.099		0.099	ug/L		11/20/24 08:01	11/21/24 13:40	1
2,4'-DDD	<0.099		0.099	ug/L		11/20/24 08:01	11/21/24 13:40	1
2,4'-DDE	<0.099		0.099	ug/L		11/20/24 08:01	11/21/24 13:40	1
2,4'-DDT	<0.099		0.099	ug/L		11/20/24 08:01	11/21/24 13:40	1
2,4-Dinitrotoluene	<0.099		0.099	ug/L		11/20/24 08:01	11/21/24 13:40	1
2,6-Dinitrotoluene	<0.099		0.099	ug/L		11/20/24 08:01	11/21/24 13:40	1
2-Methylnaphthalene	<0.099		0.099	ug/L		11/20/24 08:01	11/21/24 13:40	1
4,4'-DDD	<0.099		0.099	ug/L		11/20/24 08:01	11/21/24 13:40	1
4,4'-DDE	<0.099		0.099	ug/L		11/20/24 08:01	11/21/24 13:40	1
4,4'-DDT	<0.099		0.099	ug/L		11/20/24 08:01	11/21/24 13:40	1
Acenaphthene	<0.099		0.099	ug/L		11/20/24 08:01	11/21/24 13:40	1
Acenaphthylene	<0.099		0.099	ug/L		11/20/24 08:01	11/21/24 13:40	1
Acetochlor	<0.099		0.099	ug/L		11/20/24 08:01	11/21/24 13:40	1
Alachlor	<0.050		0.050	ug/L		11/20/24 08:01	11/21/24 13:40	1
alpha-BHC	<0.099		0.099	ug/L		11/20/24 08:01	11/21/24 13:40	1
alpha-Chlordane	<0.050		0.050	ug/L		11/20/24 08:01	11/21/24 13:40	1
Anthracene	<0.020		0.020	ug/L		11/20/24 08:01	11/21/24 13:40	1
Atrazine	<0.050		0.050	ug/L		11/20/24 08:01	11/21/24 13:40	1
Benz(a)anthracene	<0.050		0.050	ug/L		11/20/24 08:01	11/21/24 13:40	1
Benzo[a]pyrene	<0.020		0.020	ug/L		11/20/24 08:01	11/21/24 13:40	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		11/20/24 08:01	11/21/24 13:40	1
Benzo[g,h,i]perylene	<0.050		0.050	ug/L		11/20/24 08:01	11/21/24 13:40	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		11/20/24 08:01	11/21/24 13:40	1
beta-BHC	<0.099		0.099	ug/L		11/20/24 08:01	11/21/24 13:40	1
Bis(2-ethylhexyl) phthalate	<0.60		0.60	ug/L		11/20/24 08:01	11/21/24 13:40	1
Bromacil	<0.099		0.099	ug/L		11/20/24 08:01	11/21/24 13:40	1
Butachlor	<0.050		0.050	ug/L		11/20/24 08:01	11/21/24 13:40	1
Butylbenzylphthalate	<0.50		0.50	ug/L		11/20/24 08:01	11/21/24 13:40	1
Chlorobenzilate	<0.099		0.099	ug/L		11/20/24 08:01	11/21/24 13:40	1
Chloroneb	<0.099		0.099	ug/L		11/20/24 08:01	11/21/24 13:40	1
Chlorothalonil (Draconil, Bravo)	<0.099		0.099	ug/L		11/20/24 08:01	11/21/24 13:40	1
Chlorpyrifos	<0.050		0.050	ug/L		11/20/24 08:01	11/21/24 13:40	1
Chrysene	<0.020		0.020	ug/L		11/20/24 08:01	11/21/24 13:40	1
delta-BHC	<0.099		0.099	ug/L		11/20/24 08:01	11/21/24 13:40	1
Di(2-ethylhexyl)adipate	<0.60		0.60	ug/L		11/20/24 08:01	11/21/24 13:40	1
Dibenz(a,h)anthracene	<0.050		0.050	ug/L		11/20/24 08:01	11/21/24 13:40	1
Diclorvos (DDVP)	<0.050		0.050	ug/L		11/20/24 08:01	11/21/24 13:40	1
Dieldrin	<0.0099		0.0099	ug/L		11/20/24 08:01	11/21/24 13:40	1
Diethylphthalate	<0.50		0.50	ug/L		11/20/24 08:01	11/21/24 13:40	1
Dimethylphthalate	<0.50		0.50	ug/L		11/20/24 08:01	11/21/24 13:40	1
Di-n-butyl phthalate	<0.99		0.99	ug/L		11/20/24 08:01	11/21/24 13:40	1
Di-n-octyl phthalate	<0.099		0.099	ug/L		11/20/24 08:01	11/21/24 13:40	1
Endosulfan I (Alpha)	<0.099		0.099	ug/L		11/20/24 08:01	11/21/24 13:40	1
Endosulfan II (Beta)	<0.099		0.099	ug/L		11/20/24 08:01	11/21/24 13:40	1
Endosulfan sulfate	<0.099		0.099	ug/L		11/20/24 08:01	11/21/24 13:40	1
Endrin	<0.0099		0.0099	ug/L		11/20/24 08:01	11/21/24 13:40	1
Endrin aldehyde	<0.099		0.099	ug/L		11/20/24 08:01	11/21/24 13:40	1
EPTC	<0.099		0.099	ug/L		11/20/24 08:01	11/21/24 13:40	1

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QC Sample Results

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

Job ID: 380-122227-1
SDG: Weekly

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

Lab Sample ID: MB 380-119846/21-A

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 120072

Prep Batch: 119846

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Fluoranthene	<0.099		0.099	ug/L		11/20/24 08:01	11/21/24 13:40	1
Fluorene	<0.050		0.050	ug/L		11/20/24 08:01	11/21/24 13:40	1
gamma-Chlordane	<0.050		0.050	ug/L		11/20/24 08:01	11/21/24 13:40	1
Heptachlor	<0.0099		0.0099	ug/L		11/20/24 08:01	11/21/24 13:40	1
Heptachlor epoxide (isomer B)	<0.0099		0.0099	ug/L		11/20/24 08:01	11/21/24 13:40	1
Hexachlorobenzene	<0.050		0.050	ug/L		11/20/24 08:01	11/21/24 13:40	1
Hexachlorocyclopentadiene	<0.050		0.050	ug/L		11/20/24 08:01	11/21/24 13:40	1
Indeno[1,2,3-cd]pyrene	<0.050		0.050	ug/L		11/20/24 08:01	11/21/24 13:40	1
Isophorone	<0.099		0.099	ug/L		11/20/24 08:01	11/21/24 13:40	1
Lindane	<0.0099	^3+	0.0099	ug/L		11/20/24 08:01	11/21/24 13:40	1
Malathion	<0.099		0.099	ug/L		11/20/24 08:01	11/21/24 13:40	1
Methoxychlor	<0.050		0.050	ug/L		11/20/24 08:01	11/21/24 13:40	1
Metolachlor	<0.050		0.050	ug/L		11/20/24 08:01	11/21/24 13:40	1
Molinate	<0.099		0.099	ug/L		11/20/24 08:01	11/21/24 13:40	1
Naphthalene	<0.099		0.099	ug/L		11/20/24 08:01	11/21/24 13:40	1
Parathion	<0.099		0.099	ug/L		11/20/24 08:01	11/21/24 13:40	1
Pendimethalin (Penoxaline)	<0.099		0.099	ug/L		11/20/24 08:01	11/21/24 13:40	1
Phenanthrene	<0.040		0.040	ug/L		11/20/24 08:01	11/21/24 13:40	1
Propachlor	<0.050		0.050	ug/L		11/20/24 08:01	11/21/24 13:40	1
Pyrene	<0.050		0.050	ug/L		11/20/24 08:01	11/21/24 13:40	1
Simazine	<0.050		0.050	ug/L		11/20/24 08:01	11/21/24 13:40	1
Terbacil	<0.099		0.099	ug/L		11/20/24 08:01	11/21/24 13:40	1
Terbutylazine	<0.099		0.099	ug/L		11/20/24 08:01	11/21/24 13:40	1
Thiobencarb	<0.099		0.099	ug/L		11/20/24 08:01	11/21/24 13:40	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		11/20/24 08:01	11/21/24 13:40	1
trans-Nonachlor	<0.050		0.050	ug/L		11/20/24 08:01	11/21/24 13:40	1
Trifluralin	<0.099		0.099	ug/L		11/20/24 08:01	11/21/24 13:40	1

Tentatively Identified Compound	MB	MB	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
	Est. Result	Qualifier							
9-Octadecenamamide, (Z)-	1.12	T J N	ug/L		7.98	301-02-0	11/20/24 08:01	11/21/24 13:40	1
Unknown	0.813	T J	ug/L		11.24	N/A	11/20/24 08:01	11/21/24 13:40	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Nitro-m-xylene	96		70 - 130	11/20/24 08:01	11/21/24 13:40	1
Perylene-d12	93		70 - 130	11/20/24 08:01	11/21/24 13:40	1
Triphenylphosphate	106		70 - 130	11/20/24 08:01	11/21/24 13:40	1

Lab Sample ID: LCS 380-119846/23-A

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 120072

Prep Batch: 119846

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
1-Methylnaphthalene	1.98	1.93		ug/L		98	70 - 130
2,4'-DDD	1.98	2.03		ug/L		102	70 - 130
2,4'-DDE	1.98	2.06		ug/L		104	70 - 130
2,4'-DDT	1.98	2.00		ug/L		101	70 - 130
2,4-Dinitrotoluene	1.98	1.57		ug/L		79	70 - 130
2,6-Dinitrotoluene	1.98	1.66		ug/L		84	70 - 130

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QC Sample Results

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

Job ID: 380-122227-1
SDG: Weekly

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

Lab Sample ID: LCS 380-119846/23-A

Matrix: Water

Analysis Batch: 120072

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 119846

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Methylnaphthalene	1.98	1.95		ug/L		98	70 - 130
4,4'-DDD	1.98	2.05		ug/L		104	70 - 130
4,4'-DDE	1.98	1.98		ug/L		100	70 - 130
4,4'-DDT	1.98	2.05		ug/L		104	70 - 130
Acenaphthene	1.98	1.94		ug/L		98	70 - 130
Acenaphthylene	1.98	1.92		ug/L		97	70 - 130
Acetochlor	1.98	2.02		ug/L		102	70 - 130
Alachlor	1.98	2.11		ug/L		106	70 - 130
alpha-BHC	1.98	1.97		ug/L		99	70 - 130
alpha-Chlordane	1.98	2.02		ug/L		102	70 - 130
Anthracene	1.98	1.83		ug/L		93	70 - 130
Atrazine	1.98	2.12		ug/L		107	70 - 130
Benz(a)anthracene	1.98	1.88		ug/L		95	70 - 130
Benzo[a]pyrene	1.98	1.80		ug/L		91	70 - 130
Benzo[b]fluoranthene	1.98	2.07		ug/L		105	70 - 130
Benzo[g,h,i]perylene	1.98	2.04		ug/L		103	70 - 130
Benzo[k]fluoranthene	1.98	2.05		ug/L		104	70 - 130
beta-BHC	1.98	2.01		ug/L		102	70 - 130
Bis(2-ethylhexyl) phthalate	1.98	2.12		ug/L		107	70 - 130
Bromacil	1.98	1.90		ug/L		96	70 - 130
Butachlor	1.98	2.12		ug/L		107	70 - 130
Butylbenzylphthalate	1.98	2.21		ug/L		111	70 - 130
Chlorobenzilate	1.98	1.73		ug/L		87	70 - 130
Chloroneb	1.98	2.10		ug/L		106	70 - 130
Chlorothalonil (Draconil, Bravo)	1.98	2.11		ug/L		106	70 - 130
Chlorpyrifos	1.98	2.08		ug/L		105	70 - 130
Chrysene	1.98	1.99		ug/L		100	70 - 130
delta-BHC	1.98	2.00		ug/L		101	70 - 130
Di(2-ethylhexyl)adipate	1.98	2.03		ug/L		102	70 - 130
Dibenz(a,h)anthracene	1.98	1.90		ug/L		96	70 - 130
Diclorvos (DDVP)	1.98	1.92		ug/L		97	70 - 130
Dieldrin	1.98	1.95		ug/L		99	70 - 130
Diethylphthalate	1.98	2.04		ug/L		103	70 - 130
Dimethylphthalate	1.98	2.03		ug/L		102	70 - 130
Di-n-butyl phthalate	3.96	4.20		ug/L		106	70 - 130
Di-n-octyl phthalate	1.98	1.85		ug/L		93	70 - 130
Endosulfan I (Alpha)	1.98	1.97		ug/L		99	70 - 130
Endosulfan II (Beta)	1.98	1.97		ug/L		99	70 - 130
Endosulfan sulfate	1.98	2.00		ug/L		101	70 - 130
Endrin	1.98	1.89		ug/L		96	70 - 130
Endrin aldehyde	1.98	1.86		ug/L		94	60 - 130
EPTC	1.98	2.02		ug/L		102	70 - 130
Fluoranthene	1.98	2.07		ug/L		105	70 - 130
Fluorene	1.98	2.03		ug/L		102	70 - 130
gamma-Chlordane	1.98	2.02		ug/L		102	70 - 130
Heptachlor	1.98	1.92		ug/L		97	70 - 130
Heptachlor epoxide (isomer B)	1.98	1.95		ug/L		98	70 - 130
Hexachlorobenzene	1.98	1.86		ug/L		94	70 - 130
Hexachlorocyclopentadiene	1.98	1.84		ug/L		93	70 - 130

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QC Sample Results

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

Job ID: 380-122227-1
SDG: Weekly

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

Lab Sample ID: LCS 380-119846/23-A

Matrix: Water

Analysis Batch: 120072

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 119846

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
Indeno[1,2,3-cd]pyrene	1.98	1.99		ug/L		100	70 - 130	
Isophorone	1.98	1.93		ug/L		97	70 - 130	
Lindane	1.98	1.85		ug/L		93	70 - 130	
Malathion	1.98	1.97		ug/L		100	70 - 130	
Methoxychlor	1.98	1.83		ug/L		92	70 - 130	
Metolachlor	1.98	2.08		ug/L		105	70 - 130	
Molinate	1.98	2.03		ug/L		102	70 - 130	
Naphthalene	1.98	1.95		ug/L		98	70 - 130	
Parathion	1.98	1.90		ug/L		96	70 - 130	
Pendimethalin (Penoxaline)	1.98	1.81		ug/L		91	70 - 130	
Phenanthrene	1.98	1.89		ug/L		96	70 - 130	
Propachlor	1.98	2.02		ug/L		102	70 - 130	
Pyrene	1.98	2.07		ug/L		105	70 - 130	
Simazine	1.98	2.12		ug/L		107	70 - 130	
Terbacil	1.98	1.91		ug/L		96	70 - 130	
Terbuthylazine	1.98	2.07		ug/L		104	70 - 130	
Thiobencarb	1.98	2.08		ug/L		105	70 - 130	
trans-Nonachlor	1.98	1.97		ug/L		100	70 - 130	
Trifluralin	1.98	1.72		ug/L		87	70 - 130	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	94		70 - 130
Perylene-d12	95		70 - 130
Triphenylphosphate	100		70 - 130

Lab Sample ID: LCSD 380-119846/24-A

Matrix: Water

Analysis Batch: 120072

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 119846

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits			
1-Methylnaphthalene	1.98	1.97		ug/L		100	70 - 130	2	20	
2,4'-DDD	1.98	2.00		ug/L		101	70 - 130	1	20	
2,4'-DDE	1.98	2.00		ug/L		101	70 - 130	3	20	
2,4'-DDT	1.98	2.00		ug/L		101	70 - 130	0	20	
2,4-Dinitrotoluene	1.98	1.72		ug/L		87	70 - 130	9	20	
2,6-Dinitrotoluene	1.98	1.77		ug/L		89	70 - 130	6	20	
2-Methylnaphthalene	1.98	1.95		ug/L		99	70 - 130	0	20	
4,4'-DDD	1.98	2.03		ug/L		103	70 - 130	1	20	
4,4'-DDE	1.98	1.96		ug/L		99	70 - 130	1	20	
4,4'-DDT	1.98	2.01		ug/L		102	70 - 130	2	20	
Acenaphthene	1.98	1.95		ug/L		98	70 - 130	1	20	
Acenaphthylene	1.98	1.97		ug/L		100	70 - 130	3	20	
Acetochlor	1.98	2.07		ug/L		104	70 - 130	2	20	
Alachlor	1.98	2.09		ug/L		105	70 - 130	1	20	
alpha-BHC	1.98	1.99		ug/L		100	70 - 130	1	20	
alpha-Chlordane	1.98	2.02		ug/L		102	70 - 130	0	20	
Anthracene	1.98	1.85		ug/L		93	70 - 130	1	20	
Atrazine	1.98	2.17		ug/L		110	70 - 130	2	20	

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-122227-1
SDG: Weekly

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

Lab Sample ID: LCSD 380-119846/24-A

Matrix: Water

Analysis Batch: 120072

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 119846

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Benz(a)anthracene	1.98	1.88		ug/L		95	70 - 130	0	20	
Benzo[a]pyrene	1.98	1.81		ug/L		91	70 - 130	0	20	
Benzo[b]fluoranthene	1.98	2.06		ug/L		104	70 - 130	1	20	
Benzo[g,h,i]perylene	1.98	2.13		ug/L		108	70 - 130	4	20	
Benzo[k]fluoranthene	1.98	2.04		ug/L		103	70 - 130	1	20	
beta-BHC	1.98	2.06		ug/L		104	70 - 130	2	20	
Bis(2-ethylhexyl) phthalate	1.98	2.24		ug/L		113	70 - 130	5	20	
Bromacil	1.98	1.95		ug/L		99	70 - 130	3	20	
Butachlor	1.98	2.12		ug/L		107	70 - 130	0	20	
Butylbenzylphthalate	1.98	2.31		ug/L		116	70 - 130	4	20	
Chlorobenzilate	1.98	1.90		ug/L		96	70 - 130	9	20	
Chloroneb	1.98	2.19		ug/L		111	70 - 130	4	20	
Chlorothalonil (Draconil, Bravo)	1.98	2.18		ug/L		110	70 - 130	4	20	
Chlorpyrifos	1.98	2.10		ug/L		106	70 - 130	1	20	
Chrysene	1.98	1.99		ug/L		101	70 - 130	0	20	
delta-BHC	1.98	2.10		ug/L		106	70 - 130	5	20	
Di(2-ethylhexyl)adipate	1.98	2.01		ug/L		102	70 - 130	1	20	
Dibenz(a,h)anthracene	1.98	1.93		ug/L		97	70 - 130	1	20	
Diclorvos (DDVP)	1.98	1.95		ug/L		99	70 - 130	2	20	
Dieldrin	1.98	1.98		ug/L		100	70 - 130	1	20	
Diethylphthalate	1.98	2.08		ug/L		105	70 - 130	2	20	
Dimethylphthalate	1.98	2.09		ug/L		105	70 - 130	3	20	
Di-n-butyl phthalate	3.96	4.23		ug/L		107	70 - 130	1	20	
Di-n-octyl phthalate	1.98	1.76		ug/L		89	70 - 130	5	20	
Endosulfan I (Alpha)	1.98	1.96		ug/L		99	70 - 130	0	20	
Endosulfan II (Beta)	1.98	1.98		ug/L		100	70 - 130	1	20	
Endosulfan sulfate	1.98	2.01		ug/L		101	70 - 130	1	20	
Endrin	1.98	1.84		ug/L		93	70 - 130	3	20	
Endrin aldehyde	1.98	1.90		ug/L		96	60 - 130	2	20	
EPTC	1.98	2.05		ug/L		104	70 - 130	2	20	
Fluoranthene	1.98	2.10		ug/L		106	70 - 130	1	20	
Fluorene	1.98	2.07		ug/L		105	70 - 130	2	20	
gamma-Chlordane	1.98	2.00		ug/L		101	70 - 130	1	20	
Heptachlor	1.98	1.93		ug/L		97	70 - 130	1	20	
Heptachlor epoxide (isomer B)	1.98	1.96		ug/L		99	70 - 130	1	20	
Hexachlorobenzene	1.98	1.90		ug/L		96	70 - 130	2	20	
Hexachlorocyclopentadiene	1.98	1.85		ug/L		93	70 - 130	0	20	
Indeno[1,2,3-cd]pyrene	1.98	2.16		ug/L		109	70 - 130	8	20	
Isophorone	1.98	1.96		ug/L		99	70 - 130	2	20	
Lindane	1.98	1.86		ug/L		94	70 - 130	1	20	
Malathion	1.98	2.02		ug/L		102	70 - 130	2	20	
Methoxychlor	1.98	1.85		ug/L		93	70 - 130	1	20	
Metolachlor	1.98	2.09		ug/L		106	70 - 130	0	20	
Molinate	1.98	2.08		ug/L		105	70 - 130	2	20	
Naphthalene	1.98	1.98		ug/L		100	70 - 130	2	20	
Parathion	1.98	1.92		ug/L		97	70 - 130	1	20	
Pendimethalin (Penoxaline)	1.98	1.82		ug/L		92	70 - 130	1	20	
Phenanthrene	1.98	1.90		ug/L		96	70 - 130	0	20	
Propachlor	1.98	2.03		ug/L		103	70 - 130	1	20	

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-122227-1
SDG: Weekly

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

Lab Sample ID: LCSD 380-119846/24-A

Matrix: Water

Analysis Batch: 120072

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 119846

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Pyrene	1.98	2.08		ug/L		105	70 - 130	0	20	
Simazine	1.98	2.15		ug/L		109	70 - 130	1	20	
Terbacil	1.98	1.98		ug/L		100	70 - 130	4	20	
Terbutylazine	1.98	2.14		ug/L		108	70 - 130	3	20	
Thiobencarb	1.98	2.07		ug/L		104	70 - 130	1	20	
trans-Nonachlor	1.98	1.98		ug/L		100	70 - 130	0	20	
Trifluralin	1.98	1.80		ug/L		91	70 - 130	5	20	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	97		70 - 130
Perylene-d12	94		70 - 130
Triphenylphosphate	100		70 - 130

Lab Sample ID: MRL 380-119846/22-A

Matrix: Water

Analysis Batch: 120072

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 119846

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec	
							Limits	RPD
1-Methylnaphthalene	0.0993	0.114		ug/L		115	50 - 150	
2,4'-DDD	0.0993	0.0939	J	ug/L		95	50 - 150	
2,4'-DDE	0.0993	0.104		ug/L		104	50 - 150	
2,4'-DDT	0.0993	0.0969	J	ug/L		98	50 - 150	
2,4-Dinitrotoluene	0.0993	0.0956	J	ug/L		96	50 - 150	
2,6-Dinitrotoluene	0.0993	0.0914	J	ug/L		92	50 - 150	
2-Methylnaphthalene	0.0993	0.105		ug/L		106	50 - 150	
4,4'-DDD	0.0993	0.104		ug/L		104	50 - 150	
4,4'-DDE	0.0993	0.0989	J	ug/L		100	50 - 150	
4,4'-DDT	0.0993	0.0914	J	ug/L		92	50 - 150	
Acenaphthene	0.0993	0.0994		ug/L		100	50 - 150	
Acenaphthylene	0.0993	0.0922	J	ug/L		93	50 - 150	
Acetochlor	0.0993	0.109		ug/L		110	50 - 150	
Alachlor	0.0496	0.0506		ug/L		102	50 - 150	
alpha-BHC	0.0993	0.107		ug/L		108	50 - 150	
alpha-Chlordane	0.0248	<0.029		ug/L		105	50 - 150	
Anthracene	0.0199	0.0208		ug/L		105	50 - 150	
Atrazine	0.0496	0.0518		ug/L		104	50 - 150	
Benz(a)anthracene	0.0496	0.0507		ug/L		102	50 - 150	
Benzo[a]pyrene	0.0199	0.0196	J	ug/L		99	50 - 150	
Benzo[b]fluoranthene	0.0199	0.0194	J	ug/L		98	50 - 150	
Benzo[g,h,i]perylene	0.0496	0.0397	J	ug/L		80	50 - 150	
Benzo[k]fluoranthene	0.0199	0.0190	J	ug/L		96	50 - 150	
beta-BHC	0.0993	0.120		ug/L		121	50 - 150	
Bis(2-ethylhexyl) phthalate	0.596	0.519	J	ug/L		87	50 - 150	
Bromacil	0.0993	0.0927	J	ug/L		93	50 - 150	
Butachlor	0.0496	0.0532		ug/L		107	50 - 150	
Butylbenzylphthalate	0.496	0.539		ug/L		109	50 - 150	
Chlorobenzilate	0.0993	0.0980	J	ug/L		99	50 - 150	
Chloroneb	0.0993	0.0972	J	ug/L		98	50 - 150	

QC Sample Results

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

Job ID: 380-122227-1
SDG: Weekly

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

Lab Sample ID: MRL 380-119846/22-A

Matrix: Water

Analysis Batch: 120072

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 119846

Analyte	Spike	MRL	MRL	Unit	D	%Rec	%Rec Limits
	Added	Result	Qualifier				
Chlorothalonil (Draconil, Bravo)	0.0993	0.0856	J	ug/L		86	50 - 150
Chlorpyrifos	0.0496	0.0443	J	ug/L		89	50 - 150
Chrysene	0.0199	0.0227		ug/L		115	50 - 150
delta-BHC	0.0993	0.117		ug/L		118	50 - 150
Di(2-ethylhexyl)adipate	0.596	0.562	J	ug/L		94	50 - 150
Dibenz(a,h)anthracene	0.0496	0.0452	J	ug/L		91	50 - 150
Diclorvos (DDVP)	0.0496	0.0530		ug/L		107	50 - 150
Dieldrin	0.00993	0.0127		ug/L		128	50 - 150
Diethylphthalate	0.496	0.528		ug/L		106	50 - 150
Dimethylphthalate	0.496	0.523		ug/L		105	50 - 150
Di-n-butyl phthalate	0.496	0.586	J	ug/L		118	49 - 243
Di-n-octyl phthalate	0.0993	0.0852	J	ug/L		86	50 - 150
Endosulfan I (Alpha)	0.0993	0.0935	J	ug/L		94	50 - 150
Endosulfan II (Beta)	0.0993	0.105		ug/L		106	50 - 150
Endosulfan sulfate	0.0993	0.0910	J	ug/L		92	50 - 150
Endrin	0.00993	0.0109		ug/L		110	50 - 150
Endrin aldehyde	0.0993	0.106		ug/L		107	50 - 150
EPTC	0.0993	0.0947	J	ug/L		95	50 - 150
Fluoranthene	0.0993	0.0990		ug/L		100	50 - 150
Fluorene	0.0496	0.0520		ug/L		105	50 - 150
gamma-Chlordane	0.0248	<0.021		ug/L		84	50 - 150
Heptachlor	0.00993	0.0138		ug/L		139	50 - 150
Heptachlor epoxide (isomer B)	0.00993	0.0121		ug/L		121	50 - 150
Hexachlorobenzene	0.0496	0.0491	J	ug/L		99	50 - 150
Hexachlorocyclopentadiene	0.0496	0.0437	J	ug/L		88	50 - 150
Indeno[1,2,3-cd]pyrene	0.0496	0.0354	J	ug/L		71	50 - 150
Isophorone	0.0993	0.120		ug/L		121	50 - 150
Lindane	0.00993	0.0175	^3+	ug/L		177	50 - 150
Malathion	0.0993	0.0773	J	ug/L		78	50 - 150
Methoxychlor	0.0496	0.0494	J	ug/L		100	50 - 150
Metolachlor	0.0496	0.0547		ug/L		110	50 - 150
Molinate	0.0993	0.103		ug/L		103	50 - 150
Naphthalene	0.0993	0.117		ug/L		118	50 - 150
Parathion	0.0993	0.0768	J	ug/L		77	50 - 150
Pendimethalin (Penoxaline)	0.0993	0.0819	J	ug/L		82	50 - 150
Phenanthrene	0.0397	0.0424		ug/L		107	50 - 150
Propachlor	0.0496	0.0505		ug/L		102	50 - 150
Pyrene	0.0496	0.0505		ug/L		102	50 - 150
Simazine	0.0496	0.0533		ug/L		107	50 - 150
Terbacil	0.0993	0.0847	J	ug/L		85	50 - 150
Terbutylazine	0.0993	0.105		ug/L		106	50 - 150
Thiobencarb	0.0993	0.0979	J	ug/L		99	50 - 150
trans-Nonachlor	0.0248	<0.026		ug/L		103	50 - 150
Trifluralin	0.0993	0.0887	J	ug/L		89	50 - 150

Surrogate	MRL		Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	97		70 - 130
Perylene-d12	90		70 - 130

QC Sample Results

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

Job ID: 380-122227-1
SDG: Weekly

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

Lab Sample ID: MRL 380-119846/22-A
Matrix: Water
Analysis Batch: 120072

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 119846

<i>Surrogate</i>	<i>%Recovery</i>	<i>MRL MRL Qualifier</i>	<i>Limits</i>
<i>Triphenylphosphate</i>	99		70 - 130

Lab Sample ID: 380-122132-AD-1-A MS
Matrix: Water
Analysis Batch: 120072

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 119846

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier					
1-Methylnaphthalene	<0.096		1.91	1.85		ug/L		96		70 - 130
2,4'-DDD	<0.096		1.91	1.94		ug/L		102		70 - 130
2,4'-DDE	<0.096		1.91	1.89		ug/L		99		70 - 130
2,4'-DDT	<0.096		1.91	1.85		ug/L		97		70 - 130
2,4-Dinitrotoluene	<0.096		1.91	1.74		ug/L		91		70 - 130
2,6-Dinitrotoluene	<0.096		1.91	1.72		ug/L		90		70 - 130
2-Methylnaphthalene	<0.096		1.91	1.87		ug/L		98		70 - 130
4,4'-DDD	<0.096		1.91	1.99		ug/L		104		70 - 130
4,4'-DDE	<0.096		1.91	1.82		ug/L		95		70 - 130
4,4'-DDT	<0.096		1.91	1.86		ug/L		97		70 - 130
Acenaphthene	<0.096		1.91	1.85		ug/L		97		70 - 130
Acenaphthylene	<0.096		1.91	1.91		ug/L		100		70 - 130
Acetochlor	<0.096		1.91	2.00		ug/L		105		70 - 130
Alachlor	<0.048		1.91	2.03		ug/L		106		70 - 130
alpha-BHC	<0.096		1.91	1.94		ug/L		102		70 - 130
alpha-Chlordane	<0.048		1.91	1.97		ug/L		103		70 - 130
Anthracene	<0.019		1.91	1.58		ug/L		83		70 - 130
Atrazine	<0.048		1.91	2.11		ug/L		110		70 - 130
Benz(a)anthracene	<0.048		1.91	1.79		ug/L		93		70 - 130
Benzo[a]pyrene	<0.019		1.91	1.60		ug/L		83		70 - 130
Benzo[b]fluoranthene	<0.019		1.91	1.96		ug/L		102		70 - 130
Benzo[g,h,i]perylene	<0.048		1.91	1.82		ug/L		95		70 - 130
Benzo[k]fluoranthene	<0.019		1.91	1.75		ug/L		92		70 - 130
beta-BHC	<0.096		1.91	1.97		ug/L		103		70 - 130
Bis(2-ethylhexyl) phthalate	<0.58		1.91	1.72		ug/L		90		70 - 130
Bromacil	<0.096		1.91	1.94		ug/L		101		70 - 130
Butachlor	<0.048		1.91	2.15		ug/L		112		70 - 130
Butylbenzylphthalate	<0.48		1.91	2.27		ug/L		118		70 - 130
Chlorobenzilate	<0.096		1.91	1.70		ug/L		89		70 - 130
Chloroneb	<0.096		1.91	2.03		ug/L		106		70 - 130
Chlorothalonil (Draconil, Bravo)	<0.096		1.91	2.15		ug/L		112		70 - 130
Chlorpyrifos	<0.048		1.91	2.02		ug/L		106		70 - 130
Chrysene	<0.019		1.91	1.83		ug/L		96		70 - 130
delta-BHC	<0.096		1.91	1.93		ug/L		101		70 - 130
Di(2-ethylhexyl)adipate	<0.58		1.91	1.72		ug/L		90		70 - 130
Dibenz(a,h)anthracene	<0.048		1.91	1.61		ug/L		84		70 - 130
Diclorvos (DDVP)	<0.048		1.91	1.96		ug/L		103		70 - 130
Dieldrin	<0.0096		1.91	1.89		ug/L		99		70 - 130
Diethylphthalate	<0.48		1.91	2.03		ug/L		106		70 - 130
Dimethylphthalate	<0.48		1.91	2.02		ug/L		106		70 - 130
Di-n-butyl phthalate	<0.96		3.83	4.04		ug/L		106		70 - 130

QC Sample Results

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

Job ID: 380-122227-1
SDG: Weekly

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

Lab Sample ID: 380-122132-AD-1-A MS

Client Sample ID: Matrix Spike

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 120072

Prep Batch: 119846

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
Di-n-octyl phthalate	<0.096		1.91	1.36		ug/L		71	70 - 130
Endosulfan I (Alpha)	<0.096		1.91	1.91		ug/L		100	70 - 130
Endosulfan II (Beta)	<0.096		1.91	1.94		ug/L		101	70 - 130
Endosulfan sulfate	<0.096		1.91	1.95		ug/L		102	70 - 130
Endrin	<0.0096		1.91	1.79		ug/L		94	70 - 130
Endrin aldehyde	<0.096		1.91	1.29		ug/L		67	60 - 130
EPTC	<0.096		1.91	1.96		ug/L		102	70 - 130
Fluoranthene	<0.096		1.91	2.03		ug/L		106	70 - 130
Fluorene	<0.048		1.91	1.96		ug/L		103	70 - 130
gamma-Chlordane	<0.048		1.91	1.91		ug/L		100	70 - 130
Heptachlor	<0.0096		1.91	1.81		ug/L		95	70 - 130
Heptachlor epoxide (isomer B)	<0.0096		1.91	1.91		ug/L		100	70 - 130
Hexachlorobenzene	<0.048		1.91	1.78		ug/L		93	70 - 130
Hexachlorocyclopentadiene	<0.048		1.91	1.77		ug/L		92	70 - 130
Indeno[1,2,3-cd]pyrene	<0.048		1.91	1.80		ug/L		94	70 - 130
Isophorone	<0.096		1.91	1.91		ug/L		100	70 - 130
Lindane	<0.0096	^3+	1.91	1.79		ug/L		93	70 - 130
Malathion	<0.096		1.91	2.02		ug/L		106	70 - 130
Methoxychlor	<0.048		1.91	1.87		ug/L		98	70 - 130
Metolachlor	<0.048		1.91	2.03		ug/L		106	70 - 130
Molinate	<0.096		1.91	2.00		ug/L		105	70 - 130
Naphthalene	<0.096		1.91	1.87		ug/L		98	70 - 130
Parathion	<0.096		1.91	1.92		ug/L		100	70 - 130
Pendimethalin (Penoxaline)	<0.096		1.91	1.83		ug/L		96	70 - 130
Phenanthrene	<0.038		1.91	1.82		ug/L		95	70 - 130
Propachlor	<0.048		1.91	2.01		ug/L		105	70 - 130
Pyrene	<0.048		1.91	2.01		ug/L		105	70 - 130
Simazine	<0.048		1.91	2.15		ug/L		112	70 - 130
Terbacil	<0.096		1.91	2.05		ug/L		107	70 - 130
Terbutylazine	<0.096		1.91	2.11		ug/L		110	70 - 130
Thiobencarb	<0.096		1.91	2.04		ug/L		107	70 - 130
trans-Nonachlor	<0.048		1.91	1.89		ug/L		99	70 - 130
Trifluralin	<0.096		1.91	1.77		ug/L		93	70 - 130

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	96		70 - 130
Perylene-d12	96		70 - 130
Triphenylphosphate	104		70 - 130

Lab Sample ID: 380-121839-R-1-A DU

Client Sample ID: Duplicate

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 120072

Prep Batch: 119846

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	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

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-122227-1
SDG: Weekly

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

Lab Sample ID: 380-121839-R-1-A DU

Matrix: Water

Analysis Batch: 120072

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 119846

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
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	1.4		1.34		ug/L		2	20
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

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-122227-1
SDG: Weekly

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

Lab Sample ID: 380-121839-R-1-A DU
Matrix: Water
Analysis Batch: 120072

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 119846

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
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	^3+	<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		<0.039		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

Surrogate	DU	DU	Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	97		70 - 130
Perylene-d12	99		70 - 130
Triphenylphosphate	103		70 - 130

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

Lab Sample ID: MB 570-504385/1-A
Matrix: Water
Analysis Batch: 509940

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 504385

Tentatively Identified Compound	MB	MB	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	Est. Result	Qualifier	ug/L			N/A	11/18/24 09:17	12/04/24 17:40	1
	None								

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4,6-Tribromophenol (Surr)	89		33 - 139	11/18/24 09:17	12/04/24 17:40	1
2-Fluorobiphenyl (Surr)	72		33 - 126	11/18/24 09:17	12/04/24 17:40	1
2-Fluorophenol (Surr)	50		12 - 120	11/18/24 09:17	12/04/24 17:40	1
Nitrobenzene-d5 (Surr)	76		36 - 120	11/18/24 09:17	12/04/24 17:40	1
Phenol-d6 (Surr)	33		10 - 120	11/18/24 09:17	12/04/24 17:40	1
p-Terphenyl-d14 (Surr)	86		47 - 131	11/18/24 09:17	12/04/24 17:40	1

QC Sample Results

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

Job ID: 380-122227-1
SDG: Weekly

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

Lab Sample ID: MB 570-504385/1-A
Matrix: Water
Analysis Batch: 506444

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 504385

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1-Methylnaphthalene	<0.20		0.20	ug/L		11/18/24 09:17	11/22/24 18:47	1
2-Methylnaphthalene	<0.20		0.20	ug/L		11/18/24 09:17	11/22/24 18:47	1
Acenaphthene	<0.20		0.20	ug/L		11/18/24 09:17	11/22/24 18:47	1
Acenaphthylene	<0.20		0.20	ug/L		11/18/24 09:17	11/22/24 18:47	1
Anthracene	<0.20		0.20	ug/L		11/18/24 09:17	11/22/24 18:47	1
Benzo[a]anthracene	<0.20		0.20	ug/L		11/18/24 09:17	11/22/24 18:47	1
Benzo[a]pyrene	<0.20		0.20	ug/L		11/18/24 09:17	11/22/24 18:47	1
Benzo[b]fluoranthene	<0.20		0.20	ug/L		11/18/24 09:17	11/22/24 18:47	1
Benzo[g,h,i]perylene	<0.20		0.20	ug/L		11/18/24 09:17	11/22/24 18:47	1
Benzo[k]fluoranthene	<0.20		0.20	ug/L		11/18/24 09:17	11/22/24 18:47	1
Chrysene	<0.20		0.20	ug/L		11/18/24 09:17	11/22/24 18:47	1
Dibenz(a,h)anthracene	<0.20		0.20	ug/L		11/18/24 09:17	11/22/24 18:47	1
Fluoranthene	<0.20		0.20	ug/L		11/18/24 09:17	11/22/24 18:47	1
Fluorene	<0.20		0.20	ug/L		11/18/24 09:17	11/22/24 18:47	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20	ug/L		11/18/24 09:17	11/22/24 18:47	1
Naphthalene	<0.20		0.20	ug/L		11/18/24 09:17	11/22/24 18:47	1
Phenanthrene	<0.20		0.20	ug/L		11/18/24 09:17	11/22/24 18:47	1
Pyrene	<0.20		0.20	ug/L		11/18/24 09:17	11/22/24 18:47	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4,6-Tribromophenol (Surr)	80		28 - 127	11/18/24 09:17	11/22/24 18:47	1
2-Fluorobiphenyl (Surr)	58		31 - 120	11/18/24 09:17	11/22/24 18:47	1
2-Fluorophenol (Surr)	48		17 - 120	11/18/24 09:17	11/22/24 18:47	1
Nitrobenzene-d5 (Surr)	64		27 - 120	11/18/24 09:17	11/22/24 18:47	1
Phenol-d6 (Surr)	28		10 - 120	11/18/24 09:17	11/22/24 18:47	1
p-Terphenyl-d14 (Surr)	66		45 - 120	11/18/24 09:17	11/22/24 18:47	1

Lab Sample ID: LCS 570-504385/2-A
Matrix: Water
Analysis Batch: 506444

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 504385

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
1-Methylnaphthalene	20.0	11.7		ug/L		58	47 - 120
2-Methylnaphthalene	20.0	13.3		ug/L		66	43 - 120
Acenaphthene	20.0	14.6		ug/L		73	60 - 132
Acenaphthylene	20.0	14.3		ug/L		72	54 - 126
Anthracene	20.0	14.8		ug/L		74	43 - 120
Benzo[a]anthracene	20.0	15.3		ug/L		77	42 - 133
Benzo[a]pyrene	20.0	16.5		ug/L		82	32 - 148
Benzo[b]fluoranthene	20.0	15.8		ug/L		79	42 - 140
Benzo[g,h,i]perylene	20.0	14.0		ug/L		70	1 - 195
Benzo[k]fluoranthene	20.0	14.8		ug/L		74	25 - 146
Chrysene	20.0	14.0		ug/L		70	44 - 140
Dibenz(a,h)anthracene	20.0	15.6		ug/L		78	1 - 200
Fluoranthene	20.0	15.5		ug/L		78	43 - 121
Fluorene	20.0	15.5		ug/L		78	70 - 120
Indeno[1,2,3-cd]pyrene	20.0	16.2		ug/L		81	1 - 151
Naphthalene	20.0	11.8		ug/L		59	36 - 120

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-122227-1
SDG: Weekly

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

Lab Sample ID: LCS 570-504385/2-A

Matrix: Water

Analysis Batch: 506444

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 504385

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Phenanthrene	20.0	14.9		ug/L		74	65 - 120
Pyrene	20.0	14.9		ug/L		74	70 - 120

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	87		28 - 127
2-Fluorobiphenyl (Surr)	72		31 - 120
2-Fluorophenol (Surr)	58		17 - 120
Nitrobenzene-d5 (Surr)	65		27 - 120
Phenol-d6 (Surr)	34		10 - 120
p-Terphenyl-d14 (Surr)	77		45 - 120

Lab Sample ID: LCSD 570-504385/3-A

Matrix: Water

Analysis Batch: 506444

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 504385

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
		Result	Qualifier						
1-Methylnaphthalene	20.0	12.2		ug/L		61	47 - 120	4	20
2-Methylnaphthalene	20.0	14.1		ug/L		70	43 - 120	6	20
Acenaphthene	20.0	14.7		ug/L		73	60 - 132	0	29
Acenaphthylene	20.0	14.2		ug/L		71	54 - 126	1	45
Anthracene	20.0	16.0		ug/L		80	43 - 120	7	40
Benzo[a]anthracene	20.0	16.6		ug/L		83	42 - 133	8	32
Benzo[a]pyrene	20.0	18.3		ug/L		92	32 - 148	11	43
Benzo[b]fluoranthene	20.0	17.0		ug/L		85	42 - 140	7	43
Benzo[g,h,i]perylene	20.0	15.1		ug/L		76	1 - 195	8	61
Benzo[k]fluoranthene	20.0	17.0		ug/L		85	25 - 146	13	38
Chrysene	20.0	15.5		ug/L		77	44 - 140	10	53
Dibenz(a,h)anthracene	20.0	16.5		ug/L		83	1 - 200	6	75
Fluoranthene	20.0	16.7		ug/L		83	43 - 121	7	40
Fluorene	20.0	15.6		ug/L		78	70 - 120	0	23
Indeno[1,2,3-cd]pyrene	20.0	17.3		ug/L		86	1 - 151	6	60
Naphthalene	20.0	12.8		ug/L		64	36 - 120	8	39
Phenanthrene	20.0	15.6		ug/L		78	65 - 120	5	24
Pyrene	20.0	16.3		ug/L		82	70 - 120	9	30

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	92		28 - 127
2-Fluorobiphenyl (Surr)	68		31 - 120
2-Fluorophenol (Surr)	64		17 - 120
Nitrobenzene-d5 (Surr)	64		27 - 120
Phenol-d6 (Surr)	36		10 - 120
p-Terphenyl-d14 (Surr)	84		45 - 120

QC Sample Results

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

Job ID: 380-122227-1
SDG: Weekly

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

Lab Sample ID: 380-122227-3 MS

Matrix: Drinking Water
Analysis Batch: 506444

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

Prep Type: Total/NA
Prep Batch: 504385

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier					
1-Methylnaphthalene	<0.19		19.1	12.4		ug/L		65		36 - 120
2-Methylnaphthalene	<0.19		19.1	14.2		ug/L		75		32 - 124
Acenaphthene	<0.19		19.1	14.8		ug/L		78		47 - 145
Acenaphthylene	<0.19		19.1	14.4		ug/L		76		33 - 145
Anthracene	<0.19		19.1	15.6		ug/L		82		27 - 133
Benzo[a]anthracene	<0.19		19.1	16.0		ug/L		84		33 - 143
Benzo[a]pyrene	<0.19		19.1	17.5		ug/L		92		17 - 163
Benzo[b]fluoranthene	<0.19		19.1	16.5		ug/L		86		24 - 159
Benzo[g,h,i]perylene	<0.19		19.1	14.7		ug/L		77		1 - 219
Benzo[k]fluoranthene	<0.19		19.1	16.3		ug/L		85		11 - 162
Chrysene	<0.19		19.1	15.0		ug/L		78		17 - 168
Dibenz(a,h)anthracene	<0.19		19.1	16.0		ug/L		84		1 - 227
Fluoranthene	<0.19		19.1	16.5		ug/L		87		26 - 137
Fluorene	<0.19		19.1	15.2		ug/L		80		59 - 121
Indeno[1,2,3-cd]pyrene	<0.19		19.1	16.4		ug/L		86		1 - 171
Naphthalene	<0.19		19.1	12.9		ug/L		68		21 - 133
Phenanthrene	<0.19		19.1	15.3		ug/L		80		54 - 120
Pyrene	<0.19		19.1	15.3		ug/L		80		52 - 120

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	96		28 - 127
2-Fluorobiphenyl (Surr)	74		31 - 120
2-Fluorophenol (Surr)	67		17 - 120
Nitrobenzene-d5 (Surr)	69		27 - 120
Phenol-d6 (Surr)	34		10 - 120
p-Terphenyl-d14 (Surr)	79		45 - 120

Lab Sample ID: 380-122227-3 MSD

Matrix: Drinking Water
Analysis Batch: 506444

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

Prep Type: Total/NA
Prep Batch: 504385

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier							
1-Methylnaphthalene	<0.19		19.2	13.1		ug/L		68		36 - 120	6	30
2-Methylnaphthalene	<0.19		19.2	15.5		ug/L		80		32 - 124	8	30
Acenaphthene	<0.19		19.2	16.3		ug/L		84		47 - 145	9	48
Acenaphthylene	<0.19		19.2	15.8		ug/L		82		33 - 145	9	74
Anthracene	<0.19		19.2	16.7		ug/L		87		27 - 133	7	66
Benzo[a]anthracene	<0.19		19.2	17.1		ug/L		89		33 - 143	6	53
Benzo[a]pyrene	<0.19		19.2	18.5		ug/L		96		17 - 163	6	72
Benzo[b]fluoranthene	<0.19		19.2	17.6		ug/L		91		24 - 159	7	71
Benzo[g,h,i]perylene	<0.19		19.2	16.1		ug/L		83		1 - 219	9	97
Benzo[k]fluoranthene	<0.19		19.2	17.3		ug/L		90		11 - 162	6	63
Chrysene	<0.19		19.2	15.9		ug/L		83		17 - 168	6	87
Dibenz(a,h)anthracene	<0.19		19.2	17.4		ug/L		90		1 - 227	9	126
Fluoranthene	<0.19		19.2	17.9		ug/L		93		26 - 137	8	66
Fluorene	<0.19		19.2	17.1		ug/L		89		59 - 121	12	38
Indeno[1,2,3-cd]pyrene	<0.19		19.2	18.2		ug/L		95		1 - 171	10	99
Naphthalene	<0.19		19.2	13.9		ug/L		72		21 - 133	7	65

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-122227-1
SDG: Weekly

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

Lab Sample ID: 380-122227-3 MSD
Matrix: Drinking Water
Analysis Batch: 506444

Client Sample ID: HALAWA WELLS UNITS 1 & 2 (331-206-TP065)
Prep Type: Total/NA
Prep Batch: 504385

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Phenanthrene	<0.19		19.2	16.4		ug/L		85	54 - 120	7	39
Pyrene	<0.19		19.2	16.9		ug/L		88	52 - 120	10	49
MSD MSD											
Surrogate	%Recovery	Qualifier	Limits								
2,4,6-Tribromophenol (Surr)	91		28 - 127								
2-Fluorobiphenyl (Surr)	77		31 - 120								
2-Fluorophenol (Surr)	59		17 - 120								
Nitrobenzene-d5 (Surr)	73		27 - 120								
Phenol-d6 (Surr)	32		10 - 120								
p-Terphenyl-d14 (Surr)	83		45 - 120								

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

Lab Sample ID: MB 570-507194/6
Matrix: Water
Analysis Batch: 507194

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

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
GRO (C6-C10)	<10		10	ug/L			11/25/24 12:14	1
MB MB								
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		38 - 134				11/25/24 12:14	1

Lab Sample ID: LCS 570-507194/4
Matrix: Water
Analysis Batch: 507194

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

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec	RPD	Limit
		Result	Qualifier				Limits		
Gasoline Range Organics (C4-C13)	400	326		ug/L		82	78 - 120		
LCS LCS									
Surrogate	%Recovery	Qualifier	Limits						
4-Bromofluorobenzene (Surr)	96		38 - 134						

Lab Sample ID: LCSD 570-507194/5
Matrix: Water
Analysis Batch: 507194

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

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	Limit
		Result	Qualifier				Limits		
Gasoline Range Organics (C4-C13)	400	329		ug/L		82	78 - 120	1	10
LCSD LCSD									
Surrogate	%Recovery	Qualifier	Limits						
4-Bromofluorobenzene (Surr)	96		38 - 134						

QC Sample Results

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

Job ID: 380-122227-1
SDG: Weekly

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

Lab Sample ID: MRL 570-507194/3
Matrix: Water
Analysis Batch: 507194

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	11.4		ug/L		114	50 - 150
Surrogate		MRL	MRL				Limits
4-Bromofluorobenzene (Surr)		91					38 - 134

Lab Sample ID: 380-122227-3 MS
Matrix: Drinking Water
Analysis Batch: 507194

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	338		ug/L		85	68 - 122
Surrogate		MS		MS					Limits
4-Bromofluorobenzene (Surr)		97							38 - 134

Lab Sample ID: 380-122227-3 MSD
Matrix: Drinking Water
Analysis Batch: 507194

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	340		ug/L		85	68 - 122	1	18
Surrogate		MSD		MSD					Limits		
4-Bromofluorobenzene (Surr)		98							38 - 134		

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

Lab Sample ID: MB 570-504083/1-A
Matrix: Water
Analysis Batch: 508306

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 504083

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<25		25	ug/L		11/16/24 11:42	11/27/24 15:37	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		11/16/24 11:42	11/27/24 15:37	1
C8-C18	<25		25	ug/L		11/16/24 11:42	11/27/24 15:37	1
Surrogate		MB				Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)		112				11/16/24 11:42	11/27/24 15:37	1

Lab Sample ID: LCS 570-504083/2-A
Matrix: Water
Analysis Batch: 508306

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 504083

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
C10-C28	1600	1380		ug/L		86	56 - 127

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-122227-1
SDG: Weekly

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

Lab Sample ID: LCS 570-504083/2-A
Matrix: Water
Analysis Batch: 508306

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 504083

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
<i>n-Octacosane (Surr)</i>	112		60 - 130

Lab Sample ID: LCSD 570-504083/3-A
Matrix: Water
Analysis Batch: 508306

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 504083

		Spike		LCSD	LCSD						
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit		
C10-C28	1600	1350		ug/L	-	85	56 - 127	2	23		

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
<i>n-Octacosane (Surr)</i>	113		60 - 130

Lab Sample ID: MRL 570-504083/4-A
Matrix: Water
Analysis Batch: 508306

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 504083

		Spike		MRL	MRL					
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits			
C10-C28	0.0200	0.0325	^3+	mg/L	-	162	50 - 150			

	MRL	MRL	
Surrogate	%Recovery	Qualifier	Limits
<i>n-Octacosane (Surr)</i>	119		60 - 130

Lab Sample ID: 380-122227-3 MS
Matrix: Drinking Water
Analysis Batch: 508306

Client Sample ID: HALAWA WELLS UNITS 1 & 2 (331-206-TP065)
Prep Type: Total/NA
Prep Batch: 504083

		Sample	Sample	Spike		MS	MS				
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
C10-C28	<26	^3+	1650	1450		ug/L	-	88	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
<i>n-Octacosane (Surr)</i>	112		60 - 130

Lab Sample ID: 380-122227-3 MSD
Matrix: Drinking Water
Analysis Batch: 508306

Client Sample ID: HALAWA WELLS UNITS 1 & 2 (331-206-TP065)
Prep Type: Total/NA
Prep Batch: 504083

		Sample	Sample	Spike		MSD	MSD				
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
C10-C28	<26	^3+	1650	1470		ug/L	-	89	70 - 130	1	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
<i>n-Octacosane (Surr)</i>	116		60 - 130

QC Association Summary

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

Job ID: 380-122227-1
 SDG: Weekly

GC/MS Semi VOA

Prep Batch: 119846

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-122227-1	Ka'amilo Wells	Total/NA	Water	525.2	
380-122227-3	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP065)	Total/NA	Drinking Water	525.2	
MB 380-119846/21-A	Method Blank	Total/NA	Water	525.2	
LCS 380-119846/23-A	Lab Control Sample	Total/NA	Water	525.2	
LCSD 380-119846/24-A	Lab Control Sample Dup	Total/NA	Water	525.2	
MRL 380-119846/22-A	Lab Control Sample	Total/NA	Water	525.2	
380-122132-AD-1-A MS	Matrix Spike	Total/NA	Water	525.2	
380-121839-R-1-A DU	Duplicate	Total/NA	Water	525.2	

Analysis Batch: 120072

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-122227-1	Ka'amilo Wells	Total/NA	Water	525.2	119846
380-122227-3	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP065)	Total/NA	Drinking Water	525.2	119846
MB 380-119846/21-A	Method Blank	Total/NA	Water	525.2	119846
LCS 380-119846/23-A	Lab Control Sample	Total/NA	Water	525.2	119846
LCSD 380-119846/24-A	Lab Control Sample Dup	Total/NA	Water	525.2	119846
MRL 380-119846/22-A	Lab Control Sample	Total/NA	Water	525.2	119846
380-122132-AD-1-A MS	Matrix Spike	Total/NA	Water	525.2	119846
380-121839-R-1-A DU	Duplicate	Total/NA	Water	525.2	119846

Prep Batch: 504385

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-122227-1	Ka'amilo Wells	Total/NA	Water	625.1	
380-122227-3	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP065)	Total/NA	Drinking Water	625.1	
MB 570-504385/1-A	Method Blank	Total/NA	Water	625.1	
LCS 570-504385/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 570-504385/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	
380-122227-3 MS	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Total/NA	Drinking Water	625.1	
380-122227-3 MSD	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Total/NA	Drinking Water	625.1	

Analysis Batch: 506444

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-122227-1	Ka'amilo Wells	Total/NA	Water	625.1 SIM	504385
380-122227-3	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP065)	Total/NA	Drinking Water	625.1 SIM	504385
MB 570-504385/1-A	Method Blank	Total/NA	Water	625.1 SIM	504385
LCS 570-504385/2-A	Lab Control Sample	Total/NA	Water	625.1 SIM	504385
LCSD 570-504385/3-A	Lab Control Sample Dup	Total/NA	Water	625.1 SIM	504385
380-122227-3 MS	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Total/NA	Drinking Water	625.1 SIM	504385
380-122227-3 MSD	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Total/NA	Drinking Water	625.1 SIM	504385

Analysis Batch: 509940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-122227-1	Ka'amilo Wells	Total/NA	Water	625.1	504385
380-122227-3	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP065)	Total/NA	Drinking Water	625.1	504385
MB 570-504385/1-A	Method Blank	Total/NA	Water	625.1	504385

GC VOA

Analysis Batch: 507194

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-122227-1	Ka'amilo Wells	Total/NA	Water	8015B GRO LL	

QC Association Summary

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

Job ID: 380-122227-1
 SDG: Weekly

GC VOA (Continued)

Analysis Batch: 507194 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-122227-2	TB: Ka'amilo Wells	Total/NA	Water	8015B GRO LL	
380-122227-3	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP065)	Total/NA	Drinking Water	8015B GRO LL	
380-122227-4	TB: HALAWA WELLS UNITS 1&2 (331-206-TP065)	Total/NA	Water	8015B GRO LL	
MB 570-507194/6	Method Blank	Total/NA	Water	8015B GRO LL	
LCS 570-507194/4	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-507194/5	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	
MRL 570-507194/3	Lab Control Sample	Total/NA	Water	8015B GRO LL	
380-122227-3 MS	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Total/NA	Drinking Water	8015B GRO LL	
380-122227-3 MSD	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Total/NA	Drinking Water	8015B GRO LL	

GC Semi VOA

Prep Batch: 504083

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-122227-1	Ka'amilo Wells	Total/NA	Water	3510C	
380-122227-3	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP065)	Total/NA	Drinking Water	3510C	
MB 570-504083/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-504083/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-504083/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-504083/4-A	Lab Control Sample	Total/NA	Water	3510C	
380-122227-3 MS	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Total/NA	Drinking Water	3510C	
380-122227-3 MSD	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Total/NA	Drinking Water	3510C	

Analysis Batch: 508306

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-122227-1	Ka'amilo Wells	Total/NA	Water	8015B	504083
380-122227-3	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP065)	Total/NA	Drinking Water	8015B	504083
MB 570-504083/1-A	Method Blank	Total/NA	Water	8015B	504083
LCS 570-504083/2-A	Lab Control Sample	Total/NA	Water	8015B	504083
LCSD 570-504083/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	504083
MRL 570-504083/4-A	Lab Control Sample	Total/NA	Water	8015B	504083
380-122227-3 MS	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Total/NA	Drinking Water	8015B	504083
380-122227-3 MSD	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Total/NA	Drinking Water	8015B	504083

Lab Chronicle

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

Job ID: 380-122227-1
SDG: Weekly

Client Sample ID: Ka'amilo Wells

Lab Sample ID: 380-122227-1

Date Collected: 11/12/24 11:08

Matrix: Water

Date Received: 11/14/24 10:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			119846	KRD3	EA POM	11/20/24 08:01
Total/NA	Analysis	525.2		1	120072	Q8LA	EA POM	11/21/24 17:02
Total/NA	Prep	625.1			504385	UD4J	EET CAL 4	11/18/24 09:17
Total/NA	Analysis	625.1		1	509940	J7WE	EET CAL 4	12/04/24 19:14
Total/NA	Prep	625.1			504385	UD4J	EET CAL 4	11/18/24 09:17
Total/NA	Analysis	625.1 SIM		1	506444	AX7Z	EET CAL 4	11/22/24 22:04
Total/NA	Analysis	8015B GRO LL		1	507194	A9VE	EET CAL 4	11/25/24 13:18
Total/NA	Prep	3510C			504083	H6FE	EET CAL 4	11/16/24 11:42
Total/NA	Analysis	8015B		1	508306	E5RH	EET CAL 4	11/27/24 18:33

Client Sample ID: TB: Ka'amilo Wells

Lab Sample ID: 380-122227-2

Date Collected: 11/12/24 11:08

Matrix: Water

Date Received: 11/14/24 10:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	507194	A9VE	EET CAL 4	11/25/24 16:26

Client Sample ID: HALAWA WELLS UNITS 1 & 2 P1

Lab Sample ID: 380-122227-3

(331-206-TP065)

Date Collected: 11/12/24 09:48

Matrix: Drinking Water

Date Received: 11/14/24 10:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			119846	KRD3	EA POM	11/20/24 08:01
Total/NA	Analysis	525.2		1	120072	Q8LA	EA POM	11/21/24 17:22
Total/NA	Prep	625.1			504385	UD4J	EET CAL 4	11/18/24 09:17
Total/NA	Analysis	625.1		1	509940	J7WE	EET CAL 4	12/04/24 19:38
Total/NA	Prep	625.1			504385	UD4J	EET CAL 4	11/18/24 09:17
Total/NA	Analysis	625.1 SIM		1	506444	AX7Z	EET CAL 4	11/22/24 20:36
Total/NA	Analysis	8015B GRO LL		1	507194	A9VE	EET CAL 4	11/25/24 13:44
Total/NA	Prep	3510C			504083	H6FE	EET CAL 4	11/16/24 11:42
Total/NA	Analysis	8015B		1	508306	E5RH	EET CAL 4	11/27/24 18:54

Client Sample ID: TB: HALAWA WELLS UNITS 1&2

Lab Sample ID: 380-122227-4

(331-206-TP065)

Date Collected: 11/12/24 09:48

Matrix: Water

Date Received: 11/14/24 10:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	507194	A9VE	EET CAL 4	11/25/24 16:52

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

Accreditation/Certification Summary

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

Job ID: 380-122227-1
 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
525.2	525.2	Water	1 Methylnaphthalene
525.2	525.2	Water	2,4'-DDD
525.2	525.2	Water	2,4'-DDE
525.2	525.2	Water	2,4'-DDT
525.2	525.2	Water	2,4-Dinitrotoluene
525.2	525.2	Water	2,6-Dinitrotoluene
525.2	525.2	Water	2-Methylnaphthalene
525.2	525.2	Water	4,4'-DDD
525.2	525.2	Water	4,4'-DDE
525.2	525.2	Water	4,4'-DDT
525.2	525.2	Water	Acetochlor

Accreditation/Certification Summary

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

Job ID: 380-122227-1
 SDG: Weekly

Laboratory: Eurofins Eaton Analytical Pomona (Continued)

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

Authority	Program	Identification Number	Expiration Date
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
525.2	525.2	Water	alpha-BHC
525.2	525.2	Water	alpha-Chlordane
525.2	525.2	Water	beta-BHC
525.2	525.2	Water	Chlorobenzilate
525.2	525.2	Water	Chloroneb
525.2	525.2	Water	Chlorothalonil (Draconil, Bravo)
525.2	525.2	Water	Chlorpyrifos
525.2	525.2	Water	delta-BHC
525.2	525.2	Water	Diclorvos (DDVP)
525.2	525.2	Water	Endosulfan I (Alpha)
525.2	525.2	Water	Endosulfan II (Beta)
525.2	525.2	Water	Endosulfan sulfate
525.2	525.2	Water	Endrin aldehyde
525.2	525.2	Water	EPTC
525.2	525.2	Water	gamma-Chlordane
525.2	525.2	Water	Isophorone
525.2	525.2	Water	Malathion
525.2	525.2	Water	Parathion
525.2	525.2	Water	Pendimethalin (Penoxaline)
525.2	525.2	Water	Terbacil
525.2	525.2	Water	Terbutylazine
525.2	525.2	Water	Total Permethrin (mixed isomers)
525.2	525.2	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
Arizona	State	AZ0830	11-16-25
Arkansas DEQ	State	88-0161	07-02-25
California	Los Angeles County Sanitation Districts	9257304	07-31-26
California	State	3082	07-31-26
Kansas	NELAP	E-10420	07-31-25
Nevada	State	CA00111	07-31-25
Oregon	NELAP	4175	02-02-25
USDA	US Federal Programs	P330-22-00059	06-08-26
Washington	State	C916-18	10-11-25

Method Summary

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

Job ID: 380-122227-1
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: 380-122227-1
SDG: Weekly

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	PWSID Number
380-122227-1	Ka'amilo Wells	Water	11/12/24 11:08	11/14/24 10:12	
380-122227-2	TB: Ka'amilo Wells	Water	11/12/24 11:08	11/14/24 10:12	
380-122227-3	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP065)	Drinking Water	11/12/24 09:48	11/14/24 10:12	HI0000331
380-122227-4	TB: HALAWA WELLS UNITS 1&2 (331-206-TP065)	Water	11/12/24 09:48	11/14/24 10:12	

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Chain of Custody Record

Client Information		Lab P#: Arada, Rachelle		Carrier Tracking No(s)		COC No: 380-28005-2757 1	
Client Contact: Dr Ron Fenstermacher		E-Mail: Rachelle.Arada@et.eurofinsus.com		State of Origin:		Page: Page 1 of 1	
Company: City & County of Honolulu		PWSID:		Job #:			
Address: 630 South Beretania Street Chemistry Lab		Due Date Requested		Analysis Requested		Preservation Codes: R - NaThioSO4 RA - NaThioHCl G - Na2SO3 QA - Na2SO3/HCl Y - Trizma I - NH4 Acetate	
City: Honolulu		TAT Requested (days):		537 1 DW_PREC - 537 1 Full List		Other:	
State Zip: HI, 96843		Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		525.2_PREC - (MOD) 525plus Plus TICs			
Phone: 808-748-5091 (Tel)		PO #: C20525101 exp 05312023		8015B_GRO_LL_CS - HNL Ranges C10-C24/C24-C36/C8-C18			
Email: RFENSTEMACHER@hbws.org		VO #: 38001111		8015B_GRO_LL - (MOD) GRO			
Project Name: RED-HILL/HBWS Sites Event Desc: RUSH Weekly Red Hill		Project #: 38001111		625.1, 625.1 SIM			
Site: Hawaii		SSOW#:		Perform MS/MSD (Yes or No)			
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)	
Ka'amilo Wells		12-Nov-2024		1108		G	
Ka'amilo Wells (Matrix Spike)						Water	
Ka'amilo Wells (Matrix Spike Duplicate)		12-Nov-2024		1108		Water	
TB: Ka'amilo Wells						Water	
Halawa Wells Units 1 & 2 P1		12-Nov-2024		0848		G	
Halawa Wells Units 1 & 2 (Matrix Spike)						Water	
Halawa Wells Units 1 & 2 (Matrix Spike Duplicate)						Water	
TB: Halawa Wells Units 1 & 2		12-Nov-2024		0848		Water	
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)		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Deliverable Requested: I, II, III, IV, Other (specify)		Empty Kit Relinquished by		Special Instructions/QC Requirements:		① 3327 3327 8995 ② 3327 3327 9010	
Relinquished by		Date: 16 November 2024		Method of Shipment: FEDEX		Date/Time: 11/14/24	
Relinquished by		Date/Time:		Received by: [Signature]		Date/Time: 10:12	
Relinquished by		Date/Time:		Received by: [Signature]		Date/Time:	
Custody Seals Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Custody Seal No.		Relinquished by: [Signature]		Date/Time: 11/14/24	
Special Instructions/Note:		Total Number of Containers		533 - All Analytes		380-122227 COC	
1052 ARRIVED BROKEN -6E 11/14/24		R		RA		Q	
		2		3		2	
		4		5		4	
		X		X		X	
		X		X		X	
		2					



Eurofins Eaton Analytical Pomona

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

Chain of Custody Record



Loc 380
 Env 122227

Client Information (Sub Contract Lab)
 Client Contact: N/A
 Shipping/Receiving: N/A
 Company: Eurofins Environment Testing Southwest
 Address: 2841 Dow Avenue, Suite 100, Tustin
 State, Zip: CA, 92780
 Phone: 714-895-5494 (Tel)
 Email: N/A
 Project #: 38001111
 Site: RED-HILL
 Honolulu BWS Sites

Lab Pkt: Arada, Rachelle
E-Mail: Rachelle.Arada@et.eurofins.com
Accreditations Required (See note): State Hawaii
Due Date Requested: 11/20/2024
TAT Requested (days): N/A
PO #: N/A
WO #: N/A
Project #: 38001111
SSOW#: N/A

Sample Identification	Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (G=Comp, G=grab)	Matrix (Water, Seawater, Overwater, etc.)	Preservation Code	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6016B PRO.LL CS/310C.LL HNL Ranges: C10-	6016B_GRO.LV5030C (MOD) GRO	625.1_S1M625_Prep (MOD) Extended PAH List	625.1625_Prep (MOD) Tentatively Identified Compounds (Hold)	Analysis Requested	Special Instructions/Note:
Ka'Milo Wells (380-122227-1)		11/12/24	11:08 Hawaiian	G	Water		X	X	X	X	X	X		MRLs are needed. Confirm any hits >RL.
TB: Ka'Milo Wells (380-122227-2)		11/12/24	11:06 Hawaiian	G	Water		X	X	X	X	X	X		MRLs are needed.
HALAWA WELLS UNITS 1 & 2 (331-206-TP065) (380-122227-3)		11/12/24	09:48 Hawaiian	G	Water		X	X	X	X	X	X		MRLs are needed. Confirm any hits >RL.
HALAWA WELLS UNITS 1 & 2 (331-206-TP065) (380-122227-3M)		11/12/24	09:48 Hawaiian	G	Water		X	X	X	X	X	X		MRLs are needed. Confirm any hits >RL.
HALAWA WELLS UNITS 1 & 2 (331-206-TP065) (380-122227-3M)		11/12/24	09:48 Hawaiian	G	Water		X	X	X	X	X	X		MRLs are needed. Confirm any hits >RL.
TB: HALAWA WELLS UNITS 1&2 (331-206-TP065) (380-122227)		11/12/24	09:48 Hawaiian	G	Water		X	X	X	X	X	X		MRLs are needed.

Analysis Requested: 380-122227 Chain of Custody

Other: N/A

Special Instructions/Note: MRLs are needed. Confirm any hits >RL.

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months
 Special Instructions/QC Requirements:

Received by: [Signature] Date: 11/15/24 11:00
Relinquished by: [Signature] Date: 11/15/24 11:00
Relinquished by: [Signature] Date: 11/15/24 11:00
 Custody Seal No. 0-8/18 self
 Cooler Temperature(s) °C and Other Remarks:



Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-122227-1

SDG Number: Weekly

Login Number: 122227

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.	False	Containers recd broken. Sufficient sample in remaining containers for analysis.
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	
ClO4 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: 380-122227-1

SDG Number: Weekly

Login Number: 122227

List Number: 2

Creator: Khana, Piyush

List Source: Eurofins Calscience

List Creation: 11/15/24 02:36 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.8
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 <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	