

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

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Erwin Kawata
City & County of Honolulu
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Honolulu, Hawaii 96843

Generated 10/16/2024 9:37:38 AM

JOB DESCRIPTION

RED-HILL
Weekly

JOB NUMBER

380-115753-1

Eurofins Eaton Analytical Pomona

Job Notes

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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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Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Detection Summary	6
Client Sample Results	7
Action Limit Summary	14
Surrogate Summary	15
QC Sample Results	18
QC Association Summary	35
Lab Chronicle	37
Certification Summary	38
Method Summary	40
Sample Summary	41
Chain of Custody	42
Receipt Checklists	46

Definitions/Glossary

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

Job ID: 380-115753-1
SDG: Weekly

Qualifiers

GC/MS Semi VOA

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

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

Glossary

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

Case Narrative

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

Job ID: 380-115753-1

Job ID: 380-115753-1

Eurofins Eaton Analytical Pomona

Job Narrative 380-115753-1

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 10/2/2024 10:20 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 3.2°C, 4.0°C and 5.2°C.

GC/MS Semi VOA

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

Gasoline Range Organics

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

Diesel Range Organics

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

Detection Summary

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

Job ID: 380-115753-1
SDG: Weekly

Client Sample ID: Ka'amilo Wells

Lab Sample ID: 380-115753-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Dieldrin	0.019		0.0097	ug/L	1		525.2	Total/NA

Client Sample ID: TB: Ka'amilo Wells

Lab Sample ID: 380-115753-2

No Detections.

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

Lab Sample ID: 380-115753-3

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Dieldrin	0.043		0.0097	ug/L	1		525.2	Total/NA

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

Lab Sample ID: 380-115753-4

No Detections.

This Detection Summary does not include radiochemical test results.

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

Client Sample Results

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

Job ID: 380-115753-1
 SDG: Weekly

Client Sample ID: Ka'amilo Wells

Lab Sample ID: 380-115753-1

Date Collected: 09/30/24 11:07

Matrix: Water

Date Received: 10/02/24 10:20

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 18:25	1
2,4'-DDD	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 18:25	1
2,4'-DDE	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 18:25	1
2,4'-DDT	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 18:25	1
2,4-Dinitrotoluene	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 18:25	1
2,6-Dinitrotoluene	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 18:25	1
2-Methylnaphthalene	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 18:25	1
4,4'-DDD	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 18:25	1
4,4'-DDE	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 18:25	1
4,4'-DDT	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 18:25	1
Acenaphthene	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 18:25	1
Acenaphthylene	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 18:25	1
Acetochlor	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 18:25	1
Alachlor	<0.048		0.048	ug/L		10/06/24 12:09	10/07/24 18:25	1
alpha-BHC	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 18:25	1
alpha-Chlordane	<0.048		0.048	ug/L		10/06/24 12:09	10/07/24 18:25	1
Anthracene	<0.019		0.019	ug/L		10/06/24 12:09	10/07/24 18:25	1
Atrazine	<0.048		0.048	ug/L		10/06/24 12:09	10/07/24 18:25	1
Benz(a)anthracene	<0.048		0.048	ug/L		10/06/24 12:09	10/07/24 18:25	1
Benzo[a]pyrene	<0.019		0.019	ug/L		10/06/24 12:09	10/07/24 18:25	1
Benzo[b]fluoranthene	<0.019		0.019	ug/L		10/06/24 12:09	10/07/24 18:25	1
Benzo[g,h,i]perylene	<0.048		0.048	ug/L		10/06/24 12:09	10/07/24 18:25	1
Benzo[k]fluoranthene	<0.019		0.019	ug/L		10/06/24 12:09	10/07/24 18:25	1
beta-BHC	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 18:25	1
Bis(2-ethylhexyl) phthalate	<0.58		0.58	ug/L		10/06/24 12:09	10/07/24 18:25	1
Bromacil	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 18:25	1
Butachlor	<0.048		0.048	ug/L		10/06/24 12:09	10/07/24 18:25	1
Butylbenzylphthalate	<0.48		0.48	ug/L		10/06/24 12:09	10/07/24 18:25	1
Chlorobenzilate	<0.097	*1	0.097	ug/L		10/06/24 12:09	10/07/24 18:25	1
Chloroneb	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 18:25	1
Chlorothalonil (Draconil, Bravo)	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 18:25	1
Chlorpyrifos	<0.048		0.048	ug/L		10/06/24 12:09	10/07/24 18:25	1
Chrysene	<0.019		0.019	ug/L		10/06/24 12:09	10/07/24 18:25	1
delta-BHC	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 18:25	1
Di(2-ethylhexyl)adipate	<0.58	*1	0.58	ug/L		10/06/24 12:09	10/07/24 18:25	1
Dibenz(a,h)anthracene	<0.048		0.048	ug/L		10/06/24 12:09	10/07/24 18:25	1
Diclorvos (DDVP)	<0.048		0.048	ug/L		10/06/24 12:09	10/07/24 18:25	1
Dieldrin	0.019		0.0097	ug/L		10/06/24 12:09	10/07/24 18:25	1
Diethylphthalate	<0.48		0.48	ug/L		10/06/24 12:09	10/07/24 18:25	1
Dimethylphthalate	<0.48		0.48	ug/L		10/06/24 12:09	10/07/24 18:25	1
Di-n-butyl phthalate	<0.97		0.97	ug/L		10/06/24 12:09	10/07/24 18:25	1
Di-n-octyl phthalate	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 18:25	1
Endosulfan I (Alpha)	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 18:25	1
Endosulfan II (Beta)	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 18:25	1
Endosulfan sulfate	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 18:25	1
Endrin	<0.0097		0.0097	ug/L		10/06/24 12:09	10/07/24 18:25	1
Endrin aldehyde	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 18:25	1
EPTC	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 18:25	1
Fluoranthene	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 18:25	1

Client Sample Results

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

Job ID: 380-115753-1
SDG: Weekly

Client Sample ID: Ka'amilo Wells

Lab Sample ID: 380-115753-1

Date Collected: 09/30/24 11:07

Matrix: Water

Date Received: 10/02/24 10:20

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		10/06/24 12:09	10/07/24 18:25	1
gamma-Chlordane	<0.048		0.048	ug/L		10/06/24 12:09	10/07/24 18:25	1
Heptachlor	<0.0097		0.0097	ug/L		10/06/24 12:09	10/07/24 18:25	1
Heptachlor epoxide (isomer B)	<0.0097		0.0097	ug/L		10/06/24 12:09	10/07/24 18:25	1
Hexachlorobenzene	<0.048		0.048	ug/L		10/06/24 12:09	10/07/24 18:25	1
Hexachlorocyclopentadiene	<0.048		0.048	ug/L		10/06/24 12:09	10/07/24 18:25	1
Indeno[1,2,3-cd]pyrene	<0.048		0.048	ug/L		10/06/24 12:09	10/07/24 18:25	1
Isophorone	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 18:25	1
Lindane	<0.0097		0.0097	ug/L		10/06/24 12:09	10/07/24 18:25	1
Malathion	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 18:25	1
Methoxychlor	<0.048	*1	0.048	ug/L		10/06/24 12:09	10/07/24 18:25	1
Metolachlor	<0.048		0.048	ug/L		10/06/24 12:09	10/07/24 18:25	1
Molinate	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 18:25	1
Naphthalene	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 18:25	1
Parathion	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 18:25	1
Pendimethalin (Penoxaline)	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 18:25	1
Phenanthrene	<0.039		0.039	ug/L		10/06/24 12:09	10/07/24 18:25	1
Propachlor	<0.048		0.048	ug/L		10/06/24 12:09	10/07/24 18:25	1
Pyrene	<0.048		0.048	ug/L		10/06/24 12:09	10/07/24 18:25	1
Simazine	<0.048		0.048	ug/L		10/06/24 12:09	10/07/24 18:25	1
Terbacil	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 18:25	1
Terbutylazine	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 18:25	1
Thiobencarb	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 18:25	1
Total Permethrin (mixed isomers)	<0.19		0.19	ug/L		10/06/24 12:09	10/07/24 18:25	1
trans-Nonachlor	<0.048		0.048	ug/L		10/06/24 12:09	10/07/24 18:25	1
Trifluralin	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 18:25	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	10/06/24 12:09	10/07/24 18:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	97		70 - 130	10/06/24 12:09	10/07/24 18:25	1
Perylene-d12	83		70 - 130	10/06/24 12:09	10/07/24 18:25	1
Triphenylphosphate	102		70 - 130	10/06/24 12:09	10/07/24 18:25	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		10/04/24 05:24	10/06/24 14:49	1
2-Methylnaphthalene	<0.19		0.19	ug/L		10/04/24 05:24	10/06/24 14:49	1
Acenaphthene	<0.19		0.19	ug/L		10/04/24 05:24	10/06/24 14:49	1
Acenaphthylene	<0.19		0.19	ug/L		10/04/24 05:24	10/06/24 14:49	1
Anthracene	<0.19		0.19	ug/L		10/04/24 05:24	10/06/24 14:49	1
Benzo[a]anthracene	<0.19		0.19	ug/L		10/04/24 05:24	10/06/24 14:49	1
Benzo[a]pyrene	<0.19		0.19	ug/L		10/04/24 05:24	10/06/24 14:49	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		10/04/24 05:24	10/06/24 14:49	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		10/04/24 05:24	10/06/24 14:49	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		10/04/24 05:24	10/06/24 14:49	1
Chrysene	<0.19		0.19	ug/L		10/04/24 05:24	10/06/24 14:49	1
Dibenz(a,h)anthracene	<0.19		0.19	ug/L		10/04/24 05:24	10/06/24 14:49	1
Fluoranthene	<0.19		0.19	ug/L		10/04/24 05:24	10/06/24 14:49	1

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Client Sample Results

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

Job ID: 380-115753-1
SDG: Weekly

Client Sample ID: Ka'amilo Wells

Lab Sample ID: 380-115753-1

Date Collected: 09/30/24 11:07

Matrix: Water

Date Received: 10/02/24 10:20

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		10/04/24 05:24	10/06/24 14:49	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		10/04/24 05:24	10/06/24 14:49	1
Naphthalene	<0.19		0.19	ug/L		10/04/24 05:24	10/06/24 14:49	1
Phenanthrene	<0.19		0.19	ug/L		10/04/24 05:24	10/06/24 14:49	1
Pyrene	<0.19		0.19	ug/L		10/04/24 05:24	10/06/24 14:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	68		28 - 127	10/04/24 05:24	10/06/24 14:49	1
2-Fluorobiphenyl (Surr)	42		31 - 120	10/04/24 05:24	10/06/24 14:49	1
2-Fluorophenol (Surr)	41		17 - 120	10/04/24 05:24	10/06/24 14:49	1
Nitrobenzene-d5 (Surr)	42		27 - 120	10/04/24 05:24	10/06/24 14:49	1
Phenol-d6 (Surr)	26		10 - 120	10/04/24 05:24	10/06/24 14:49	1
p-Terphenyl-d14 (Surr)	46		45 - 120	10/04/24 05:24	10/06/24 14:49	1

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

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	10/04/24 05:24	10/15/24 19:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	72		33 - 139	10/04/24 05:24	10/15/24 19:00	1
2-Fluorobiphenyl (Surr)	59		33 - 126	10/04/24 05:24	10/15/24 19:00	1
2-Fluorophenol (Surr)	44		12 - 120	10/04/24 05:24	10/15/24 19:00	1
Nitrobenzene-d5 (Surr)	62		36 - 120	10/04/24 05:24	10/15/24 19:00	1
Phenol-d6 (Surr)	25		10 - 120	10/04/24 05:24	10/15/24 19:00	1
p-Terphenyl-d14 (Surr)	69		47 - 131	10/04/24 05:24	10/15/24 19:00	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			10/11/24 01:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		38 - 134		10/11/24 01:21	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<26		26	ug/L		10/04/24 13:52	10/06/24 10:24	1
Motor Oil Range Organics [C24-C36]	<26		26	ug/L		10/04/24 13:52	10/06/24 10:24	1
C8-C18	<26		26	ug/L		10/04/24 13:52	10/06/24 10:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	117		60 - 130	10/04/24 13:52	10/06/24 10:24	1

Client Sample ID: TB: Ka'amilo Wells

Lab Sample ID: 380-115753-2

Date Collected: 09/30/24 11:07

Matrix: Water

Date Received: 10/02/24 10:20

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			10/10/24 21:28	1

Client Sample Results

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

Job ID: 380-115753-1
SDG: Weekly

Client Sample ID: TB: Ka'amilo Wells

Lab Sample ID: 380-115753-2

Date Collected: 09/30/24 11:07

Matrix: Water

Date Received: 10/02/24 10:20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		38 - 134		10/10/24 21:28	1

Client Sample ID: HALAWA WELLS UNITS 1 & 2 P1

Lab Sample ID: 380-115753-3

(331-206-TP065)

Matrix: Drinking Water

Date Collected: 09/30/24 09:44

Date Received: 10/02/24 10:20

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 18:46	1
2,4'-DDD	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 18:46	1
2,4'-DDE	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 18:46	1
2,4'-DDT	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 18:46	1
2,4-Dinitrotoluene	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 18:46	1
2,6-Dinitrotoluene	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 18:46	1
2-Methylnaphthalene	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 18:46	1
4,4'-DDD	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 18:46	1
4,4'-DDE	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 18:46	1
4,4'-DDT	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 18:46	1
Acenaphthene	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 18:46	1
Acenaphthylene	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 18:46	1
Acetochlor	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 18:46	1
Alachlor	<0.048		0.048	ug/L		10/06/24 12:09	10/07/24 18:46	1
alpha-BHC	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 18:46	1
alpha-Chlordane	<0.048		0.048	ug/L		10/06/24 12:09	10/07/24 18:46	1
Anthracene	<0.019		0.019	ug/L		10/06/24 12:09	10/07/24 18:46	1
Atrazine	<0.048		0.048	ug/L		10/06/24 12:09	10/07/24 18:46	1
Benz(a)anthracene	<0.048		0.048	ug/L		10/06/24 12:09	10/07/24 18:46	1
Benzo[a]pyrene	<0.019		0.019	ug/L		10/06/24 12:09	10/07/24 18:46	1
Benzo[b]fluoranthene	<0.019		0.019	ug/L		10/06/24 12:09	10/07/24 18:46	1
Benzo[g,h,i]perylene	<0.048		0.048	ug/L		10/06/24 12:09	10/07/24 18:46	1
Benzo[k]fluoranthene	<0.019		0.019	ug/L		10/06/24 12:09	10/07/24 18:46	1
beta-BHC	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 18:46	1
Bis(2-ethylhexyl) phthalate	<0.58		0.58	ug/L		10/06/24 12:09	10/07/24 18:46	1
Bromacil	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 18:46	1
Butachlor	<0.048		0.048	ug/L		10/06/24 12:09	10/07/24 18:46	1
Butylbenzylphthalate	<0.48		0.48	ug/L		10/06/24 12:09	10/07/24 18:46	1
Chlorobenzilate	<0.097	*1	0.097	ug/L		10/06/24 12:09	10/07/24 18:46	1
Chloroneb	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 18:46	1
Chlorothalonil (Draconil, Bravo)	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 18:46	1
Chlorpyrifos	<0.048		0.048	ug/L		10/06/24 12:09	10/07/24 18:46	1
Chrysene	<0.019		0.019	ug/L		10/06/24 12:09	10/07/24 18:46	1
delta-BHC	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 18:46	1
Di(2-ethylhexyl)adipate	<0.58	*1	0.58	ug/L		10/06/24 12:09	10/07/24 18:46	1
Dibenz(a,h)anthracene	<0.048		0.048	ug/L		10/06/24 12:09	10/07/24 18:46	1
Diclorvos (DDVP)	<0.048		0.048	ug/L		10/06/24 12:09	10/07/24 18:46	1
Dieldrin	0.043		0.0097	ug/L		10/06/24 12:09	10/07/24 18:46	1
Diethylphthalate	<0.48		0.48	ug/L		10/06/24 12:09	10/07/24 18:46	1
Dimethylphthalate	<0.48		0.48	ug/L		10/06/24 12:09	10/07/24 18:46	1
Di-n-butyl phthalate	<0.97		0.97	ug/L		10/06/24 12:09	10/07/24 18:46	1

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Client Sample Results

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

Job ID: 380-115753-1
SDG: Weekly

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

Lab Sample ID: 380-115753-3

Date Collected: 09/30/24 09:44

Matrix: Drinking Water

Date Received: 10/02/24 10:20

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 18:46	1
Endosulfan I (Alpha)	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 18:46	1
Endosulfan II (Beta)	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 18:46	1
Endosulfan sulfate	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 18:46	1
Endrin	<0.0097		0.0097	ug/L		10/06/24 12:09	10/07/24 18:46	1
Endrin aldehyde	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 18:46	1
EPTC	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 18:46	1
Fluoranthene	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 18:46	1
Fluorene	<0.048		0.048	ug/L		10/06/24 12:09	10/07/24 18:46	1
gamma-Chlordane	<0.048		0.048	ug/L		10/06/24 12:09	10/07/24 18:46	1
Heptachlor	<0.0097		0.0097	ug/L		10/06/24 12:09	10/07/24 18:46	1
Heptachlor epoxide (isomer B)	<0.0097		0.0097	ug/L		10/06/24 12:09	10/07/24 18:46	1
Hexachlorobenzene	<0.048		0.048	ug/L		10/06/24 12:09	10/07/24 18:46	1
Hexachlorocyclopentadiene	<0.048		0.048	ug/L		10/06/24 12:09	10/07/24 18:46	1
Indeno[1,2,3-cd]pyrene	<0.048		0.048	ug/L		10/06/24 12:09	10/07/24 18:46	1
Isophorone	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 18:46	1
Lindane	<0.0097		0.0097	ug/L		10/06/24 12:09	10/07/24 18:46	1
Malathion	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 18:46	1
Methoxychlor	<0.048	*1	0.048	ug/L		10/06/24 12:09	10/07/24 18:46	1
Metolachlor	<0.048		0.048	ug/L		10/06/24 12:09	10/07/24 18:46	1
Molinate	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 18:46	1
Naphthalene	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 18:46	1
Parathion	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 18:46	1
Pendimethalin (Penoxaline)	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 18:46	1
Phenanthrene	<0.039		0.039	ug/L		10/06/24 12:09	10/07/24 18:46	1
Propachlor	<0.048		0.048	ug/L		10/06/24 12:09	10/07/24 18:46	1
Pyrene	<0.048		0.048	ug/L		10/06/24 12:09	10/07/24 18:46	1
Simazine	<0.048		0.048	ug/L		10/06/24 12:09	10/07/24 18:46	1
Terbacil	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 18:46	1
Terbutylazine	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 18:46	1
Thiobencarb	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 18:46	1
Total Permethrin (mixed isomers)	<0.19		0.19	ug/L		10/06/24 12:09	10/07/24 18:46	1
trans-Nonachlor	<0.048		0.048	ug/L		10/06/24 12:09	10/07/24 18:46	1
Trifluralin	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 18:46	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Hexathiane	3.5	T J N	ug/L		4.93	13798-23-7	10/06/24 12:09	10/07/24 18:46	1
Cyclic octaatomic sulfur	9.0	T J N	ug/L		6.77	10544-50-0	10/06/24 12:09	10/07/24 18:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	96		70 - 130	10/06/24 12:09	10/07/24 18:46	1
Perylene-d12	97		70 - 130	10/06/24 12:09	10/07/24 18:46	1
Triphenylphosphate	109		70 - 130	10/06/24 12:09	10/07/24 18:46	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		10/04/24 05:24	10/06/24 14:28	1
2-Methylnaphthalene	<0.19		0.19	ug/L		10/04/24 05:24	10/06/24 14:28	1
Acenaphthene	<0.19		0.19	ug/L		10/04/24 05:24	10/06/24 14:28	1

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Client Sample Results

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

Job ID: 380-115753-1
SDG: Weekly

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

Lab Sample ID: 380-115753-3

Date Collected: 09/30/24 09:44

Matrix: Drinking Water

Date Received: 10/02/24 10:20

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	<0.19		0.19	ug/L		10/04/24 05:24	10/06/24 14:28	1
Anthracene	<0.19		0.19	ug/L		10/04/24 05:24	10/06/24 14:28	1
Benzo[a]anthracene	<0.19		0.19	ug/L		10/04/24 05:24	10/06/24 14:28	1
Benzo[a]pyrene	<0.19		0.19	ug/L		10/04/24 05:24	10/06/24 14:28	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		10/04/24 05:24	10/06/24 14:28	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		10/04/24 05:24	10/06/24 14:28	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		10/04/24 05:24	10/06/24 14:28	1
Chrysene	<0.19		0.19	ug/L		10/04/24 05:24	10/06/24 14:28	1
Dibenz(a,h)anthracene	<0.19		0.19	ug/L		10/04/24 05:24	10/06/24 14:28	1
Fluoranthene	<0.19		0.19	ug/L		10/04/24 05:24	10/06/24 14:28	1
Fluorene	<0.19		0.19	ug/L		10/04/24 05:24	10/06/24 14:28	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		10/04/24 05:24	10/06/24 14:28	1
Naphthalene	<0.19		0.19	ug/L		10/04/24 05:24	10/06/24 14:28	1
Phenanthrene	<0.19		0.19	ug/L		10/04/24 05:24	10/06/24 14:28	1
Pyrene	<0.19		0.19	ug/L		10/04/24 05:24	10/06/24 14:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	69		28 - 127	10/04/24 05:24	10/06/24 14:28	1
2-Fluorobiphenyl (Surr)	41		31 - 120	10/04/24 05:24	10/06/24 14:28	1
2-Fluorophenol (Surr)	41		17 - 120	10/04/24 05:24	10/06/24 14:28	1
Nitrobenzene-d5 (Surr)	43		27 - 120	10/04/24 05:24	10/06/24 14:28	1
Phenol-d6 (Surr)	26		10 - 120	10/04/24 05:24	10/06/24 14:28	1
p-Terphenyl-d14 (Surr)	47		45 - 120	10/04/24 05:24	10/06/24 14:28	1

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

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	10/04/24 05:24	10/15/24 18:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	76		33 - 139	10/04/24 05:24	10/15/24 18:36	1
2-Fluorobiphenyl (Surr)	53		33 - 126	10/04/24 05:24	10/15/24 18:36	1
2-Fluorophenol (Surr)	45		12 - 120	10/04/24 05:24	10/15/24 18:36	1
Nitrobenzene-d5 (Surr)	62		36 - 120	10/04/24 05:24	10/15/24 18:36	1
Phenol-d6 (Surr)	26		10 - 120	10/04/24 05:24	10/15/24 18:36	1
p-Terphenyl-d14 (Surr)	66		47 - 131	10/04/24 05:24	10/15/24 18:36	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			10/10/24 18:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		38 - 134		10/10/24 18:48	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		10/04/24 13:52	10/06/24 10:45	1
Motor Oil Range Organics [C24-C36]	<26		26	ug/L		10/04/24 13:52	10/06/24 10:45	1
C8-C18	<26		26	ug/L		10/04/24 13:52	10/06/24 10:45	1

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Client Sample Results

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

Job ID: 380-115753-1
 SDG: Weekly

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

Lab Sample ID: 380-115753-3

Date Collected: 09/30/24 09:44

Matrix: Drinking Water

Date Received: 10/02/24 10:20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>n</i> -Octacosane (Surr)	114		60 - 130	10/04/24 13:52	10/06/24 10:45	1

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

Lab Sample ID: 380-115753-4

Date Collected: 09/30/24 09:44

Matrix: Water

Date Received: 10/02/24 10:20

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			10/10/24 21:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		38 - 134		10/10/24 21:51	1

Action Limit Summary

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

Job ID: 380-115753-1
SDG: Weekly

Client Sample ID: Ka'amilo Wells

Lab Sample ID: 380-115753-1

Compliance Check

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

Analyte	Result	Qualifier	Unit	EPAMCL	RL	Method	Prep Type
				Limit			
Alachlor	<0.048		ug/L	2	0.048	525.2	Total/NA
Atrazine	<0.048		ug/L	3	0.048	525.2	Total/NA
Benzo[a]pyrene	<0.019		ug/L	0.2	0.019	525.2	Total/NA
Bis(2-ethylhexyl) phthalate	<0.58		ug/L	6	0.58	525.2	Total/NA
Di(2-ethylhexyl)adipate	<0.58	*1	ug/L	400	0.58	525.2	Total/NA
Endrin	<0.0097		ug/L	2	0.0097	525.2	Total/NA
Heptachlor	<0.0097		ug/L	0.4	0.0097	525.2	Total/NA
Heptachlor epoxide (isomer B)	<0.0097		ug/L	0.2	0.0097	525.2	Total/NA
Hexachlorobenzene	<0.048		ug/L	1	0.048	525.2	Total/NA
Hexachlorocyclopentadiene	<0.048		ug/L	50	0.048	525.2	Total/NA
Lindane	<0.0097		ug/L	0.2	0.0097	525.2	Total/NA
Methoxychlor	<0.048	*1	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
(331-206-TP065)**

Lab Sample ID: 380-115753-3

Compliance Check

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

Analyte	Result	Qualifier	Unit	EPAMCL	RL	Method	Prep Type
				Limit			
Alachlor	<0.048		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	*1	ug/L	400	0.58	525.2	Total/NA
Endrin	<0.0097		ug/L	2	0.0097	525.2	Total/NA
Heptachlor	<0.0097		ug/L	0.4	0.0097	525.2	Total/NA
Heptachlor epoxide (isomer B)	<0.0097		ug/L	0.2	0.0097	525.2	Total/NA
Hexachlorobenzene	<0.048		ug/L	1	0.048	525.2	Total/NA
Hexachlorocyclopentadiene	<0.048		ug/L	50	0.048	525.2	Total/NA
Lindane	<0.0097		ug/L	0.2	0.0097	525.2	Total/NA
Methoxychlor	<0.048	*1	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: 380-115753-1
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)
380-115753-3	HALAWA WELLS UNITS 1 & 2 F	96	97	109

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)
380-115709-B-1-A MSD	Matrix Spike Duplicate	96	89	103
380-115709-C-1-A MS	Matrix Spike	97	91	105
380-115753-1	Ka'amilo Wells	97	83	102
LCS 380-111994/23-A	Lab Control Sample	97	84	103
LCS 380-111994/24-A	Lab Control Sample Dup	97	75	103
MB 380-111994/21-A	Method Blank	96	88	105
MRL 380-111994/22-A	Lab Control Sample	96	73	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)
380-115753-3	HALAWA WELLS UNITS 1 & 2 F	76	53	45	62	26	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: 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)
380-115753-1	Ka'amilo Wells	72	59	44	62	25	69
MB 570-487444/1-A	Method Blank	79	75	60	83	32	84

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

Surrogate Summary

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

Job ID: 380-115753-1
 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)
380-115753-3	HALAWA WELLS UNITS 1 & 2 F	69	41	41	43	26	47
380-115753-3 MS	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	63	37	42	29	27	48
380-115753-3 MSD	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	68	39	45	31	30	49

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)
380-115753-1	Ka'amilo Wells	68	42	41	42	26	46
LCS 570-487444/2-A	Lab Control Sample	86	45	51	34	39	59
LCSD 570-487444/3-A	Lab Control Sample Dup	85	44	50	33	37	57
MB 570-487444/1-A	Method Blank	84	48	48	52	32	52

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)
380-115753-3	HALAWA WELLS UNITS 1 & 2 F	82
380-115753-3 MS	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	92
380-115753-3 MSD	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	93

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

Surrogate Summary

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

Job ID: 380-115753-1
 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)
380-115753-1	Ka'amilo Wells	81
380-115753-2	TB: Ka'amilo Wells	78
380-115753-4	TB: HALAWA WELLS UNITS 1&2 (331-206-TP065)	81
LCS 570-489970/1010	Lab Control Sample	95
LCSD 570-489970/12	Lab Control Sample Dup	96
MB 570 489970/11	Method Blank	89
MRL 570-489970/1005	Lab Control Sample	79

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)
380-115753-3	HALAWA WELLS UNITS 1 & 2 F	114
380-115753-3 MS	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	111
380-115753-3 MSD	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	112

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)
380-115753-1	Ka'amilo Wells	117
LCS 570-488004/2-A	Lab Control Sample	108
LCSD 570-488004/3-A	Lab Control Sample Dup	116
MB 570-488004/1-A	Method Blank	118
MRL 570-488004/4-A	Lab Control Sample	112

Surrogate Legend

OTCSN = n-Octacosane (Surr)

QC Sample Results

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

Job ID: 380-115753-1
 SDG: Weekly

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

Lab Sample ID: MB 380-111994/21-A
Matrix: Water
Analysis Batch: 112221

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 111994

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1-Methylnaphthalene	<0.097		0.097	ug/L		10/06/24 12:09	10/08/24 10:03	1
2,4'-DDD	<0.097		0.097	ug/L		10/06/24 12:09	10/08/24 10:03	1
2,4'-DDE	<0.097		0.097	ug/L		10/06/24 12:09	10/08/24 10:03	1
2,4'-DDT	<0.097		0.097	ug/L		10/06/24 12:09	10/08/24 10:03	1
2,4-Dinitrotoluene	<0.097		0.097	ug/L		10/06/24 12:09	10/08/24 10:03	1
2,6-Dinitrotoluene	<0.097		0.097	ug/L		10/06/24 12:09	10/08/24 10:03	1
2-Methylnaphthalene	<0.097		0.097	ug/L		10/06/24 12:09	10/08/24 10:03	1
4,4'-DDD	<0.097		0.097	ug/L		10/06/24 12:09	10/08/24 10:03	1
4,4'-DDE	<0.097		0.097	ug/L		10/06/24 12:09	10/08/24 10:03	1
4,4'-DDT	<0.097		0.097	ug/L		10/06/24 12:09	10/08/24 10:03	1
Acenaphthene	<0.097		0.097	ug/L		10/06/24 12:09	10/08/24 10:03	1
Acenaphthylene	<0.097		0.097	ug/L		10/06/24 12:09	10/08/24 10:03	1
Acetochlor	<0.097		0.097	ug/L		10/06/24 12:09	10/08/24 10:03	1
Alachlor	<0.048		0.048	ug/L		10/06/24 12:09	10/08/24 10:03	1
alpha-BHC	<0.097		0.097	ug/L		10/06/24 12:09	10/08/24 10:03	1
alpha-Chlordane	<0.048		0.048	ug/L		10/06/24 12:09	10/08/24 10:03	1
Anthracene	<0.019		0.019	ug/L		10/06/24 12:09	10/08/24 10:03	1
Atrazine	<0.048		0.048	ug/L		10/06/24 12:09	10/08/24 10:03	1
Benz(a)anthracene	<0.048		0.048	ug/L		10/06/24 12:09	10/08/24 10:03	1
Benzo[a]pyrene	<0.019		0.019	ug/L		10/06/24 12:09	10/08/24 10:03	1
Benzo[b]fluoranthene	<0.019		0.019	ug/L		10/06/24 12:09	10/08/24 10:03	1
Benzo[g,h,i]perylene	<0.048		0.048	ug/L		10/06/24 12:09	10/08/24 10:03	1
Benzo[k]fluoranthene	<0.019		0.019	ug/L		10/06/24 12:09	10/08/24 10:03	1
beta-BHC	<0.097		0.097	ug/L		10/06/24 12:09	10/08/24 10:03	1
Bis(2-ethylhexyl) phthalate	<0.58		0.58	ug/L		10/06/24 12:09	10/08/24 10:03	1
Bromacil	<0.097		0.097	ug/L		10/06/24 12:09	10/08/24 10:03	1
Butachlor	<0.048		0.048	ug/L		10/06/24 12:09	10/08/24 10:03	1
Butylbenzylphthalate	<0.48		0.48	ug/L		10/06/24 12:09	10/08/24 10:03	1
Chlorobenzilate	<0.097		0.097	ug/L		10/06/24 12:09	10/08/24 10:03	1
Chloroneb	<0.097		0.097	ug/L		10/06/24 12:09	10/08/24 10:03	1
Chlorothalonil (Draconil, Bravo)	<0.097		0.097	ug/L		10/06/24 12:09	10/08/24 10:03	1
Chlorpyrifos	<0.048		0.048	ug/L		10/06/24 12:09	10/08/24 10:03	1
Chrysene	<0.019		0.019	ug/L		10/06/24 12:09	10/08/24 10:03	1
delta-BHC	<0.097		0.097	ug/L		10/06/24 12:09	10/08/24 10:03	1
Di(2-ethylhexyl)adipate	<0.58		0.58	ug/L		10/06/24 12:09	10/08/24 10:03	1
Dibenz(a,h)anthracene	<0.048		0.048	ug/L		10/06/24 12:09	10/08/24 10:03	1
Diclorvos (DDVP)	<0.048		0.048	ug/L		10/06/24 12:09	10/08/24 10:03	1
Dieldrin	<0.0097		0.0097	ug/L		10/06/24 12:09	10/08/24 10:03	1
Diethylphthalate	<0.48		0.48	ug/L		10/06/24 12:09	10/08/24 10:03	1
Dimethylphthalate	<0.48		0.48	ug/L		10/06/24 12:09	10/08/24 10:03	1
Di-n-butyl phthalate	<0.97		0.97	ug/L		10/06/24 12:09	10/08/24 10:03	1
Di-n-octyl phthalate	<0.097		0.097	ug/L		10/06/24 12:09	10/08/24 10:03	1
Endosulfan I (Alpha)	<0.097		0.097	ug/L		10/06/24 12:09	10/08/24 10:03	1
Endosulfan II (Beta)	<0.097		0.097	ug/L		10/06/24 12:09	10/08/24 10:03	1
Endosulfan sulfate	<0.097		0.097	ug/L		10/06/24 12:09	10/08/24 10:03	1
Endrin	<0.0097		0.0097	ug/L		10/06/24 12:09	10/08/24 10:03	1
Endrin aldehyde	<0.097		0.097	ug/L		10/06/24 12:09	10/08/24 10:03	1
EPTC	<0.097		0.097	ug/L		10/06/24 12:09	10/08/24 10:03	1

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QC Sample Results

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

Job ID: 380-115753-1
SDG: Weekly

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

Lab Sample ID: MB 380-111994/21-A
Matrix: Water
Analysis Batch: 112221

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 111994

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.097		0.097	ug/L		10/06/24 12:09	10/08/24 10:03	1
Fluorene	<0.048		0.048	ug/L		10/06/24 12:09	10/08/24 10:03	1
gamma-Chlordane	<0.048		0.048	ug/L		10/06/24 12:09	10/08/24 10:03	1
Heptachlor	<0.0097		0.0097	ug/L		10/06/24 12:09	10/08/24 10:03	1
Heptachlor epoxide (isomer B)	<0.0097		0.0097	ug/L		10/06/24 12:09	10/08/24 10:03	1
Hexachlorobenzene	<0.048		0.048	ug/L		10/06/24 12:09	10/08/24 10:03	1
Hexachlorocyclopentadiene	<0.048		0.048	ug/L		10/06/24 12:09	10/08/24 10:03	1
Indeno[1,2,3-cd]pyrene	<0.048		0.048	ug/L		10/06/24 12:09	10/08/24 10:03	1
Isophorone	<0.097		0.097	ug/L		10/06/24 12:09	10/08/24 10:03	1
Lindane	<0.0097		0.0097	ug/L		10/06/24 12:09	10/08/24 10:03	1
Malathion	<0.097		0.097	ug/L		10/06/24 12:09	10/08/24 10:03	1
Methoxychlor	<0.048		0.048	ug/L		10/06/24 12:09	10/08/24 10:03	1
Metolachlor	<0.048		0.048	ug/L		10/06/24 12:09	10/08/24 10:03	1
Molinate	<0.097		0.097	ug/L		10/06/24 12:09	10/08/24 10:03	1
Naphthalene	<0.097		0.097	ug/L		10/06/24 12:09	10/08/24 10:03	1
Parathion	<0.097		0.097	ug/L		10/06/24 12:09	10/08/24 10:03	1
Pendimethalin (Penoxaline)	<0.097		0.097	ug/L		10/06/24 12:09	10/08/24 10:03	1
Phenanthrene	<0.039		0.039	ug/L		10/06/24 12:09	10/08/24 10:03	1
Propachlor	<0.048		0.048	ug/L		10/06/24 12:09	10/08/24 10:03	1
Pyrene	<0.048		0.048	ug/L		10/06/24 12:09	10/08/24 10:03	1
Simazine	<0.048		0.048	ug/L		10/06/24 12:09	10/08/24 10:03	1
Terbacil	<0.097		0.097	ug/L		10/06/24 12:09	10/08/24 10:03	1
Terbutylazine	<0.097		0.097	ug/L		10/06/24 12:09	10/08/24 10:03	1
Thiobencarb	<0.097		0.097	ug/L		10/06/24 12:09	10/08/24 10:03	1
Total Permethrin (mixed isomers)	<0.19		0.19	ug/L		10/06/24 12:09	10/08/24 10:03	1
trans-Nonachlor	<0.048		0.048	ug/L		10/06/24 12:09	10/08/24 10:03	1
Trifluralin	<0.097		0.097	ug/L		10/06/24 12:09	10/08/24 10:03	1

<i>Tentatively Identified Compound</i>	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
<i>Tentatively Identified Compound</i>	None		ug/L			N/A	10/06/24 12:09	10/08/24 10:03	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	96		70 - 130	10/06/24 12:09	10/08/24 10:03	1
Perylene-d12	88		70 - 130	10/06/24 12:09	10/08/24 10:03	1
Triphenylphosphate	105		70 - 130	10/06/24 12:09	10/08/24 10:03	1

Lab Sample ID: LCS 380-111994/23-A
Matrix: Water
Analysis Batch: 112094

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 111994

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1-Methylnaphthalene	1.95	1.88		ug/L		97	70 - 130
2,4'-DDD	1.95	2.01		ug/L		103	70 - 130
2,4'-DDE	1.95	2.07		ug/L		106	70 - 130
2,4'-DDT	1.95	1.82		ug/L		94	70 - 130
2,4-Dinitrotoluene	1.95	1.90		ug/L		98	70 - 130
2,6-Dinitrotoluene	1.95	1.89		ug/L		97	70 - 130
2-Methylnaphthalene	1.95	1.84		ug/L		95	70 - 130

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QC Sample Results

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

Job ID: 380-115753-1
SDG: Weekly

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

Lab Sample ID: LCS 380-111994/23-A
Matrix: Water
Analysis Batch: 112094

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 111994

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	1.95	2.01		ug/L		103	70 - 130
4,4'-DDE	1.95	2.03		ug/L		104	70 - 130
4,4'-DDT	1.95	1.83		ug/L		94	70 - 130
Acenaphthene	1.95	1.95		ug/L		100	70 - 130
Acenaphthylene	1.95	1.77		ug/L		91	70 - 130
Acetochlor	1.95	2.06		ug/L		106	70 - 130
Alachlor	1.95	2.07		ug/L		106	70 - 130
alpha-BHC	1.95	2.00		ug/L		103	70 - 130
alpha-Chlordane	1.95	2.13		ug/L		109	70 - 130
Anthracene	1.95	1.60		ug/L		82	70 - 130
Atrazine	1.95	1.94		ug/L		100	70 - 130
Benz(a)anthracene	1.95	1.80		ug/L		92	70 - 130
Benzo[a]pyrene	1.95	1.58		ug/L		81	70 - 130
Benzo[b]fluoranthene	1.95	1.83		ug/L		94	70 - 130
Benzo[g,h,i]perylene	1.95	1.83		ug/L		94	70 - 130
Benzo[k]fluoranthene	1.95	1.91		ug/L		98	70 - 130
beta-BHC	1.95	2.07		ug/L		106	70 - 130
Bis(2-ethylhexyl) phthalate	1.95	1.77		ug/L		91	70 - 130
Bromacil	1.95	1.86		ug/L		96	70 - 130
Butachlor	1.95	1.88		ug/L		96	70 - 130
Butylbenzylphthalate	1.95	1.92		ug/L		99	70 - 130
Chlorobenzilate	1.95	1.41		ug/L		72	70 - 130
Chloroneb	1.95	1.88		ug/L		97	70 - 130
Chlorothalonil (Draconil, Bravo)	1.95	2.03		ug/L		105	70 - 130
Chlorpyrifos	1.95	2.12		ug/L		109	70 - 130
Chrysene	1.95	2.00		ug/L		103	70 - 130
delta-BHC	1.95	2.04		ug/L		105	70 - 130
Di(2-ethylhexyl)adipate	1.95	1.73		ug/L		89	70 - 130
Dibenz(a,h)anthracene	1.95	1.78		ug/L		91	70 - 130
Diclorvos (DDVP)	1.95	1.78		ug/L		92	70 - 130
Dieldrin	1.95	1.89		ug/L		97	70 - 130
Diethylphthalate	1.95	2.02		ug/L		104	70 - 130
Dimethylphthalate	1.95	1.92		ug/L		99	70 - 130
Di-n-butyl phthalate	3.89	3.98		ug/L		102	70 - 130
Di-n-octyl phthalate	1.95	1.72		ug/L		88	70 - 130
Endosulfan I (Alpha)	1.95	1.96		ug/L		101	70 - 130
Endosulfan II (Beta)	1.95	1.86		ug/L		96	70 - 130
Endosulfan sulfate	1.95	1.85		ug/L		95	70 - 130
Endrin	1.95	2.10		ug/L		108	70 - 130
Endrin aldehyde	1.95	1.81		ug/L		93	60 - 130
EPTC	1.95	1.95		ug/L		100	70 - 130
Fluoranthene	1.95	1.99		ug/L		102	70 - 130
Fluorene	1.95	1.96		ug/L		101	70 - 130
gamma-Chlordane	1.95	2.10		ug/L		108	70 - 130
Heptachlor	1.95	1.99		ug/L		102	70 - 130
Heptachlor epoxide (isomer B)	1.95	1.98		ug/L		102	70 - 130
Hexachlorobenzene	1.95	1.95		ug/L		100	70 - 130
Hexachlorocyclopentadiene	1.95	1.92		ug/L		99	70 - 130
Indeno[1,2,3-cd]pyrene	1.95	1.53		ug/L		78	70 - 130

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QC Sample Results

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

Job ID: 380-115753-1
SDG: Weekly

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

Lab Sample ID: LCS 380-111994/23-A
Matrix: Water
Analysis Batch: 112094

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 111994

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Isophorone	1.95	1.83		ug/L		94	70 - 130
Lindane	1.95	1.97		ug/L		101	70 - 130
Malathion	1.95	1.98		ug/L		101	70 - 130
Methoxychlor	1.95	1.69		ug/L		87	70 - 130
Metolachlor	1.95	2.15		ug/L		111	70 - 130
Molinate	1.95	1.97		ug/L		101	70 - 130
Naphthalene	1.95	1.82		ug/L		94	70 - 130
Parathion	1.95	2.21		ug/L		113	70 - 130
Pendimethalin (Penoxaline)	1.95	1.72		ug/L		88	70 - 130
Phenanthrene	1.95	1.83		ug/L		94	70 - 130
Propachlor	1.95	1.99		ug/L		102	70 - 130
Pyrene	1.95	1.97		ug/L		101	70 - 130
Simazine	1.95	2.03		ug/L		104	70 - 130
Terbacil	1.95	2.13		ug/L		110	70 - 130
Terbutylazine	1.95	2.10		ug/L		108	70 - 130
Thiobencarb	1.95	1.99		ug/L		102	70 - 130
trans-Nonachlor	1.95	2.07		ug/L		107	70 - 130
Trifluralin	1.95	1.62		ug/L		83	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Nitro-m-xylene	97		70 - 130
Perylene-d12	84		70 - 130
Triphenylphosphate	103		70 - 130

Lab Sample ID: LCSD 380-111994/24-A
Matrix: Water
Analysis Batch: 112094

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 111994

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	1.95	1.93		ug/L		99	70 - 130	3	20
2,4'-DDD	1.95	2.00		ug/L		103	70 - 130	0	20
2,4'-DDE	1.95	1.97		ug/L		101	70 - 130	5	20
2,4'-DDT	1.95	1.69		ug/L		87	70 - 130	7	20
2,4-Dinitrotoluene	1.95	1.99		ug/L		102	70 - 130	4	20
2,6-Dinitrotoluene	1.95	2.00		ug/L		102	70 - 130	6	20
2-Methylnaphthalene	1.95	1.87		ug/L		96	70 - 130	1	20
4,4'-DDD	1.95	1.97		ug/L		101	70 - 130	2	20
4,4'-DDE	1.95	1.84		ug/L		95	70 - 130	10	20
4,4'-DDT	1.95	1.68		ug/L		86	70 - 130	8	20
Acenaphthene	1.95	1.98		ug/L		101	70 - 130	2	20
Acenaphthylene	1.95	1.78		ug/L		91	70 - 130	0	20
Acetochlor	1.95	2.10		ug/L		108	70 - 130	2	20
Alachlor	1.95	2.12		ug/L		109	70 - 130	2	20
alpha-BHC	1.95	2.03		ug/L		104	70 - 130	1	20
alpha-Chlordane	1.95	2.13		ug/L		109	70 - 130	0	20
Anthracene	1.95	1.62		ug/L		83	70 - 130	1	20
Atrazine	1.95	1.93		ug/L		99	70 - 130	0	20
Benz(a)anthracene	1.95	1.77		ug/L		91	70 - 130	2	20

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-115753-1
SDG: Weekly

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

Lab Sample ID: LCSD 380-111994/24-A
Matrix: Water
Analysis Batch: 112094

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 111994

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	RPD Limit
							Limits	RPD		
Benzo[a]pyrene	1.95	1.71		ug/L		88	70 - 130	8	20	
Benzo[b]fluoranthene	1.95	2.03		ug/L		104	70 - 130	10	20	
Benzo[g,h,i]perylene	1.95	1.64		ug/L		84	70 - 130	11	20	
Benzo[k]fluoranthene	1.95	2.01		ug/L		103	70 - 130	5	20	
beta-BHC	1.95	2.06		ug/L		106	70 - 130	0	20	
Bis(2-ethylhexyl) phthalate	1.95	1.62		ug/L		83	70 - 130	9	20	
Bromacil	1.95	1.95		ug/L		100	70 - 130	4	20	
Butachlor	1.95	1.93		ug/L		99	70 - 130	3	20	
Butylbenzylphthalate	1.95	1.95		ug/L		100	70 - 130	2	20	
Chlorobenzilate	1.95	1.89	*1	ug/L		97	70 - 130	29	20	
Chloroneb	1.95	1.92		ug/L		99	70 - 130	2	20	
Chlorothalonil (Draconil, Bravo)	1.95	2.08		ug/L		107	70 - 130	2	20	
Chlorpyrifos	1.95	2.12		ug/L		109	70 - 130	0	20	
Chrysene	1.95	2.22		ug/L		114	70 - 130	11	20	
delta-BHC	1.95	2.06		ug/L		106	70 - 130	1	20	
Di(2-ethylhexyl)adipate	1.95	1.37	*1	ug/L		70	70 - 130	23	20	
Dibenz(a,h)anthracene	1.95	1.52		ug/L		78	70 - 130	16	20	
Diclorvos (DDVP)	1.95	1.83		ug/L		94	70 - 130	2	20	
Dieldrin	1.95	1.98		ug/L		102	70 - 130	5	20	
Diethylphthalate	1.95	2.05		ug/L		105	70 - 130	2	20	
Dimethylphthalate	1.95	1.95		ug/L		100	70 - 130	2	20	
Di-n-butyl phthalate	3.89	3.99		ug/L		102	70 - 130	0	20	
Di-n-octyl phthalate	1.95	1.46		ug/L		75	70 - 130	16	20	
Endosulfan I (Alpha)	1.95	1.99		ug/L		102	70 - 130	2	20	
Endosulfan II (Beta)	1.95	1.94		ug/L		100	70 - 130	4	20	
Endosulfan sulfate	1.95	1.89		ug/L		97	70 - 130	2	20	
Endrin	1.95	2.11		ug/L		109	70 - 130	1	20	
Endrin aldehyde	1.95	1.84		ug/L		95	60 - 130	2	20	
EPTC	1.95	1.97		ug/L		101	70 - 130	1	20	
Fluoranthene	1.95	2.05		ug/L		106	70 - 130	3	20	
Fluorene	1.95	1.99		ug/L		102	70 - 130	2	20	
gamma-Chlordane	1.95	2.05		ug/L		105	70 - 130	2	20	
Heptachlor	1.95	1.99		ug/L		102	70 - 130	0	20	
Heptachlor epoxide (isomer B)	1.95	2.00		ug/L		103	70 - 130	1	20	
Hexachlorobenzene	1.95	1.96		ug/L		101	70 - 130	1	20	
Hexachlorocyclopentadiene	1.95	1.94		ug/L		100	70 - 130	1	20	
Indeno[1,2,3-cd]pyrene	1.95	1.41		ug/L		72	70 - 130	8	20	
Isophorone	1.95	1.86		ug/L		95	70 - 130	1	20	
Lindane	1.95	1.95		ug/L		100	70 - 130	1	20	
Malathion	1.95	2.05		ug/L		105	70 - 130	4	20	
Methoxychlor	1.95	2.10	*1	ug/L		108	70 - 130	21	20	
Metolachlor	1.95	2.19		ug/L		113	70 - 130	2	20	
Molinate	1.95	1.97		ug/L		101	70 - 130	0	20	
Naphthalene	1.95	1.86		ug/L		96	70 - 130	2	20	
Parathion	1.95	2.28		ug/L		117	70 - 130	3	20	
Pendimethalin (Penoxaline)	1.95	1.78		ug/L		91	70 - 130	3	20	
Phenanthrene	1.95	1.89		ug/L		97	70 - 130	3	20	
Propachlor	1.95	2.03		ug/L		104	70 - 130	2	20	
Pyrene	1.95	2.02		ug/L		104	70 - 130	2	20	

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-115753-1
SDG: Weekly

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

Lab Sample ID: LCSD 380-111994/24-A
Matrix: Water
Analysis Batch: 112094

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 111994

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Simazine	1.95	2.02		ug/L		104	70 - 130	1	20
Terbacil	1.95	2.20		ug/L		113	70 - 130	3	20
Terbuthylazine	1.95	2.12		ug/L		109	70 - 130	1	20
Thiobencarb	1.95	2.04		ug/L		105	70 - 130	2	20
trans-Nonachlor	1.95	2.00		ug/L		103	70 - 130	4	20
Trifluralin	1.95	1.70		ug/L		87	70 - 130	5	20

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
2-Nitro-m-xylene	97		70 - 130
Perylene-d12	75		70 - 130
Triphenylphosphate	103		70 - 130

Lab Sample ID: MRL 380-111994/22-A
Matrix: Water
Analysis Batch: 112094

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 111994

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	0.0975	0.102		ug/L		105	50 - 150
2,4'-DDD	0.0975	0.0902	J	ug/L		93	50 - 150
2,4'-DDE	0.0975	0.0995		ug/L		102	50 - 150
2,4'-DDT	0.0975	0.0965	J	ug/L		99	50 - 150
2,4-Dinitrotoluene	0.0975	0.107		ug/L		110	50 - 150
2,6-Dinitrotoluene	0.0975	0.109		ug/L		112	50 - 150
2-Methylnaphthalene	0.0975	0.0960	J	ug/L		98	50 - 150
4,4'-DDD	0.0975	0.0972		ug/L		100	50 - 150
4,4'-DDE	0.0975	0.0991		ug/L		102	50 - 150
4,4'-DDT	0.0975	0.0958	J	ug/L		98	50 - 150
Acenaphthene	0.0975	0.0967	J	ug/L		99	50 - 150
Acenaphthylene	0.0975	0.0819	J	ug/L		84	50 - 150
Acetochlor	0.0975	0.110		ug/L		113	50 - 150
Alachlor	0.0487	0.0510		ug/L		105	50 - 150
alpha-BHC	0.0975	0.105		ug/L		108	50 - 150
alpha-Chlordane	0.0244	<0.028		ug/L		101	50 - 150
Anthracene	0.0195	0.0195		ug/L		100	50 - 150
Atrazine	0.0487	0.0509		ug/L		104	50 - 150
Benz(a)anthracene	0.0487	0.0482	J	ug/L		99	50 - 150
Benzo[a]pyrene	0.0195	0.0155	J	ug/L		80	50 - 150
Benzo[b]fluoranthene	0.0195	0.0169	J	ug/L		87	50 - 150
Benzo[g,h,i]perylene	0.0487	0.0339	J	ug/L		70	50 - 150
Benzo[k]fluoranthene	0.0195	0.0177	J	ug/L		91	50 - 150
beta-BHC	0.0975	0.110		ug/L		113	50 - 150
Bis(2-ethylhexyl) phthalate	0.585	0.514	J	ug/L		88	50 - 150
Bromacil	0.0975	0.0969	J	ug/L		99	50 - 150
Butachlor	0.0487	0.0599		ug/L		123	50 - 150
Butylbenzylphthalate	0.487	0.465	J	ug/L		95	50 - 150
Chlorobenzilate	0.0975	0.0849	J	ug/L		87	50 - 150
Chloroneb	0.0975	0.0834	J	ug/L		86	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0975	0.106		ug/L		109	50 - 150

QC Sample Results

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

Job ID: 380-115753-1
SDG: Weekly

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

Lab Sample ID: MRL 380-111994/22-A
Matrix: Water
Analysis Batch: 112094

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 111994

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chlorpyrifos	0.0487	0.0507		ug/L		104	50 - 150
Chrysene	0.0195	0.0216		ug/L		111	50 - 150
delta-BHC	0.0975	0.109		ug/L		112	50 - 150
Di(2-ethylhexyl)adipate	0.585	0.505	J	ug/L		86	50 - 150
Dibenz(a,h)anthracene	0.0487	0.0342	J	ug/L		70	50 - 150
Diclorvos (DDVP)	0.0487	0.0493		ug/L		101	50 - 150
Dieldrin	0.00975	0.0128		ug/L		132	50 - 150
Diethylphthalate	0.487	0.503		ug/L		103	50 - 150
Dimethylphthalate	0.487	0.488	J	ug/L		100	50 - 150
Di-n-butyl phthalate	0.487	0.475	J	ug/L		97	49 - 243
Di-n-octyl phthalate	0.0975	0.0644	J	ug/L		66	50 - 150
Endosulfan I (Alpha)	0.0975	0.0887	J	ug/L		91	50 - 150
Endosulfan II (Beta)	0.0975	0.111		ug/L		114	50 - 150
Endosulfan sulfate	0.0975	0.0938	J	ug/L		96	50 - 150
Endrin	0.00975	0.0110		ug/L		112	50 - 150
Endrin aldehyde	0.0975	0.0889	J	ug/L		91	50 - 150
EPTC	0.0975	0.0910	J	ug/L		93	50 - 150
Fluoranthene	0.0975	0.0931	J	ug/L		96	50 - 150
Fluorene	0.0487	0.0505		ug/L		104	50 - 150
gamma-Chlordane	0.0244	0.0241	J	ug/L		99	50 - 150
Heptachlor	0.00975	0.0114		ug/L		117	50 - 150
Heptachlor epoxide (isomer B)	0.00975	0.0140		ug/L		144	50 - 150
Hexachlorobenzene	0.0487	0.0487	J	ug/L		100	50 - 150
Hexachlorocyclopentadiene	0.0487	0.0463	J	ug/L		95	50 - 150
Indeno[1,2,3-cd]pyrene	0.0487	0.0269	J	ug/L		55	50 - 150
Isophorone	0.0975	0.110		ug/L		112	50 - 150
Lindane	0.00975	0.0141		ug/L		144	50 - 150
Malathion	0.0975	0.105		ug/L		107	50 - 150
Methoxychlor	0.0487	0.0585		ug/L		120	50 - 150
Metolachlor	0.0487	0.0537		ug/L		110	50 - 150
Molinate	0.0975	0.0959	J	ug/L		98	50 - 150
Naphthalene	0.0975	0.103		ug/L		105	50 - 150
Parathion	0.0975	0.101		ug/L		104	50 - 150
Pendimethalin (Penoxaline)	0.0975	0.0791	J	ug/L		81	50 - 150
Phenanthrene	0.0390	0.0418		ug/L		107	50 - 150
Propachlor	0.0487	0.0528		ug/L		108	50 - 150
Pyrene	0.0487	0.0454	J	ug/L		93	50 - 150
Simazine	0.0487	0.0461	J	ug/L		95	50 - 150
Terbacil	0.0975	0.104		ug/L		107	50 - 150
Terbutylazine	0.0975	0.0992		ug/L		102	50 - 150
Thiobencarb	0.0975	0.0931	J	ug/L		95	50 - 150
trans-Nonachlor	0.0244	<0.025		ug/L		90	50 - 150
Trifluralin	0.0975	0.0873	J	ug/L		90	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
2-Nitro-m-xylene	96		70 - 130
Perylene-d12	73		70 - 130
Triphenylphosphate	99		70 - 130

QC Sample Results

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

Job ID: 380-115753-1
SDG: Weekly

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

Lab Sample ID: 380-115709-B-1-A MSD
Matrix: Water
Analysis Batch: 112094

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 111994

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
1-Methylnaphthalene	<0.097		1.96	1.93		ug/L		98	70 - 130	0	20
2,4'-DDD	<0.097		1.96	2.08		ug/L		106	70 - 130	1	20
2,4'-DDE	<0.097		1.96	2.11		ug/L		108	70 - 130	2	20
2,4'-DDT	<0.097		1.96	1.94		ug/L		99	70 - 130	3	20
2,4-Dinitrotoluene	<0.097		1.96	2.14		ug/L		109	70 - 130	0	20
2,6-Dinitrotoluene	<0.097		1.96	2.07		ug/L		106	70 - 130	1	20
2-Methylnaphthalene	<0.097		1.96	1.89		ug/L		96	70 - 130	0	20
4,4'-DDD	<0.097		1.96	2.07		ug/L		106	70 - 130	1	20
4,4'-DDE	<0.097		1.96	2.06		ug/L		105	70 - 130	3	20
4,4'-DDT	<0.097		1.96	1.98		ug/L		101	70 - 130	2	20
Acenaphthene	<0.097		1.96	2.00		ug/L		102	70 - 130	0	20
Acenaphthylene	<0.097		1.96	1.86		ug/L		95	70 - 130	1	20
Acetochlor	<0.097		1.96	2.15		ug/L		110	70 - 130	1	20
Alachlor	<0.049		1.96	2.11		ug/L		108	70 - 130	1	20
alpha-BHC	<0.097		1.96	2.06		ug/L		105	70 - 130	1	20
alpha-Chlordane	<0.049		1.96	2.19		ug/L		112	70 - 130	2	20
Anthracene	<0.019	F1	1.96	1.24	F1	ug/L		63	70 - 130	9	20
Atrazine	<0.049		1.96	1.97		ug/L		101	70 - 130	2	20
Benz(a)anthracene	<0.049		1.96	1.81		ug/L		92	70 - 130	1	20
Benzo[a]pyrene	<0.019		1.96	1.57		ug/L		80	70 - 130	4	20
Benzo[b]fluoranthene	<0.019		1.96	1.96		ug/L		100	70 - 130	0	20
Benzo[g,h,i]perylene	<0.049		1.96	1.93		ug/L		99	70 - 130	1	20
Benzo[k]fluoranthene	<0.019		1.96	1.98		ug/L		101	70 - 130	1	20
beta-BHC	<0.097		1.96	2.12		ug/L		108	70 - 130	0	20
Bis(2-ethylhexyl) phthalate	<0.58		1.96	1.67		ug/L		85	70 - 130	4	20
Bromacil	<0.097		1.96	1.99		ug/L		102	70 - 130	3	20
Butachlor	<0.049		1.96	1.96		ug/L		100	70 - 130	0	20
Butylbenzylphthalate	<0.49		1.96	1.97		ug/L		100	70 - 130	0	20
Chlorobenzilate	<0.097	*1	1.96	1.90		ug/L		97	70 - 130	2	20
Chloroneb	<0.097		1.96	1.96		ug/L		100	70 - 130	1	20
Chlorothalonil (Draconil, Bravo)	<0.097		1.96	2.08		ug/L		106	70 - 130	2	20
Chlorpyrifos	<0.049		1.96	2.17		ug/L		111	70 - 130	0	20
Chrysene	<0.019		1.96	2.04		ug/L		104	70 - 130	1	20
delta-BHC	<0.097		1.96	2.07		ug/L		106	70 - 130	2	20
Di(2-ethylhexyl)adipate	<0.58	*1	1.96	1.69		ug/L		86	70 - 130	5	20
Dibenz(a,h)anthracene	<0.049		1.96	1.86		ug/L		95	70 - 130	1	20
Diclorvos (DDVP)	<0.049		1.96	1.89		ug/L		96	70 - 130	1	20
Dieldrin	<0.0097		1.96	2.02		ug/L		103	70 - 130	0	20
Diethylphthalate	<0.49		1.96	2.07		ug/L		106	70 - 130	0	20
Dimethylphthalate	<0.49		1.96	1.97		ug/L		101	70 - 130	0	20
Di-n-butyl phthalate	<0.97		3.92	4.03		ug/L		103	70 - 130	1	20
Di-n-octyl phthalate	<0.097		1.96	1.55		ug/L		79	70 - 130	10	20
Endosulfan I (Alpha)	<0.097		1.96	2.04		ug/L		104	70 - 130	1	20
Endosulfan II (Beta)	<0.097		1.96	2.00		ug/L		102	70 - 130	1	20
Endosulfan sulfate	<0.097		1.96	1.99		ug/L		101	70 - 130	1	20
Endrin	<0.0097		1.96	2.15		ug/L		110	70 - 130	0	20
Endrin aldehyde	<0.097		1.96	1.75		ug/L		89	60 - 130	3	20
EPTC	<0.097		1.96	1.98		ug/L		101	70 - 130	1	20

QC Sample Results

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

Job ID: 380-115753-1
SDG: Weekly

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

Lab Sample ID: 380-115709-B-1-A MSD
Matrix: Water
Analysis Batch: 112094

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 111994

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits	Limit	
Fluoranthene	<0.097		1.96	2.05		ug/L		105	70 - 130	1	20
Fluorene	<0.049		1.96	2.03		ug/L		103	70 - 130	1	20
gamma-Chlordane	<0.049		1.96	2.18		ug/L		111	70 - 130	2	20
Heptachlor	<0.0097		1.96	2.01		ug/L		102	70 - 130	1	20
Heptachlor epoxide (isomer B)	<0.0097		1.96	2.04		ug/L		104	70 - 130	2	20
Hexachlorobenzene	<0.049		1.96	2.04		ug/L		104	70 - 130	0	20
Hexachlorocyclopentadiene	<0.049		1.96	2.07		ug/L		106	70 - 130	1	20
Indeno[1,2,3-cd]pyrene	<0.049		1.96	1.71		ug/L		87	70 - 130	2	20
Isophorone	<0.097		1.96	1.87		ug/L		96	70 - 130	1	20
Lindane	<0.0097		1.96	2.00		ug/L		102	70 - 130	0	20
Malathion	<0.097		1.96	2.06		ug/L		105	70 - 130	1	20
Methoxychlor	<0.049	*1	1.96	1.88		ug/L		96	70 - 130	0	20
Metolachlor	<0.049		1.96	2.21		ug/L		113	70 - 130	1	20
Molinate	<0.097		1.96	1.99		ug/L		102	70 - 130	0	20
Naphthalene	<0.097		1.96	1.87		ug/L		95	70 - 130	1	20
Parathion	<0.097		1.96	2.42		ug/L		123	70 - 130	1	20
Pendimethalin (Penoxaline)	<0.097		1.96	1.96		ug/L		100	70 - 130	2	20
Phenanthrene	<0.039		1.96	1.88		ug/L		96	70 - 130	0	20
Propachlor	<0.049		1.96	2.02		ug/L		103	70 - 130	1	20
Pyrene	<0.049		1.96	2.01		ug/L		103	70 - 130	0	20
Simazine	<0.049		1.96	2.10		ug/L		107	70 - 130	0	20
Terbacil	<0.097		1.96	2.28		ug/L		117	70 - 130	2	20
Terbutylazine	<0.097		1.96	2.17		ug/L		111	70 - 130	1	20
Thiobencarb	<0.097		1.96	2.01		ug/L		103	70 - 130	1	20
trans-Nonachlor	<0.049		1.96	2.16		ug/L		110	70 - 130	3	20
Trifluralin	<0.097		1.96	1.81		ug/L		93	70 - 130	1	20

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	96		70 - 130
Perylene-d12	89		70 - 130
Triphenylphosphate	103		70 - 130

Lab Sample ID: 380-115709-C-1-A MS
Matrix: Water
Analysis Batch: 112094

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 111994

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits	Limit	
1-Methylnaphthalene	<0.097		1.96	1.92		ug/L		98	70 - 130		
2,4'-DDD	<0.097		1.96	2.11		ug/L		107	70 - 130		
2,4'-DDE	<0.097		1.96	2.14		ug/L		109	70 - 130		
2,4'-DDT	<0.097		1.96	2.00		ug/L		102	70 - 130		
2,4-Dinitrotoluene	<0.097		1.96	2.14		ug/L		109	70 - 130		
2,6-Dinitrotoluene	<0.097		1.96	2.09		ug/L		106	70 - 130		
2-Methylnaphthalene	<0.097		1.96	1.88		ug/L		96	70 - 130		
4,4'-DDD	<0.097		1.96	2.08		ug/L		106	70 - 130		
4,4'-DDE	<0.097		1.96	2.12		ug/L		108	70 - 130		
4,4'-DDT	<0.097		1.96	2.02		ug/L		103	70 - 130		
Acenaphthene	<0.097		1.96	2.00		ug/L		102	70 - 130		

QC Sample Results

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

Job ID: 380-115753-1
SDG: Weekly

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

Lab Sample ID: 380-115709-C-1-A MS
Matrix: Water
Analysis Batch: 112094

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 111994

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
Acenaphthylene	<0.097		1.96	1.83		ug/L		93	70 - 130
Acetochlor	<0.097		1.96	2.13		ug/L		109	70 - 130
Alachlor	<0.049		1.96	2.14		ug/L		109	70 - 130
alpha-BHC	<0.097		1.96	2.04		ug/L		104	70 - 130
alpha-Chlordane	<0.049		1.96	2.23		ug/L		114	70 - 130
Anthracene	<0.019	F1	1.96	1.13	F1	ug/L		58	70 - 130
Atrazine	<0.049		1.96	2.01		ug/L		103	70 - 130
Benz(a)anthracene	<0.049		1.96	1.82		ug/L		93	70 - 130
Benzo[a]pyrene	<0.019		1.96	1.52		ug/L		77	70 - 130
Benzo[b]fluoranthene	<0.019		1.96	1.95		ug/L		99	70 - 130
Benzo[g,h,i]perylene	<0.049		1.96	1.92		ug/L		98	70 - 130
Benzo[k]fluoranthene	<0.019		1.96	2.00		ug/L		102	70 - 130
beta-BHC	<0.097		1.96	2.12		ug/L		108	70 - 130
Bis(2-ethylhexyl) phthalate	<0.58		1.96	1.74		ug/L		88	70 - 130
Bromacil	<0.097		1.96	2.05		ug/L		104	70 - 130
Butachlor	<0.049		1.96	1.96		ug/L		100	70 - 130
Butylbenzylphthalate	<0.49		1.96	1.96		ug/L		100	70 - 130
Chlorobenzilate	<0.097	*1	1.96	1.85		ug/L		95	70 - 130
Chloroneb	<0.097		1.96	1.97		ug/L		100	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.097		1.96	2.12		ug/L		108	70 - 130
Chlorpyrifos	<0.049		1.96	2.16		ug/L		110	70 - 130
Chrysene	<0.019		1.96	2.03		ug/L		104	70 - 130
delta-BHC	<0.097		1.96	2.12		ug/L		108	70 - 130
Di(2-ethylhexyl)adipate	<0.58	*1	1.96	1.78		ug/L		91	70 - 130
Dibenz(a,h)anthracene	<0.049		1.96	1.88		ug/L		96	70 - 130
Diclorvos (DDVP)	<0.049		1.96	1.88		ug/L		96	70 - 130
Dieldrin	<0.0097		1.96	2.01		ug/L		103	70 - 130
Diethylphthalate	<0.49		1.96	2.06		ug/L		105	70 - 130
Dimethylphthalate	<0.49		1.96	1.97		ug/L		100	70 - 130
Di-n-butyl phthalate	<0.97		3.92	4.01		ug/L		102	70 - 130
Di-n-octyl phthalate	<0.097		1.96	1.70		ug/L		87	70 - 130
Endosulfan I (Alpha)	<0.097		1.96	2.01		ug/L		103	70 - 130
Endosulfan II (Beta)	<0.097		1.96	1.98		ug/L		101	70 - 130
Endosulfan sulfate	<0.097		1.96	2.01		ug/L		102	70 - 130
Endrin	<0.0097		1.96	2.14		ug/L		109	70 - 130
Endrin aldehyde	<0.097		1.96	1.80		ug/L		92	60 - 130
EPTC	<0.097		1.96	1.99		ug/L		101	70 - 130
Fluoranthene	<0.097		1.96	2.08		ug/L		106	70 - 130
Fluorene	<0.049		1.96	2.02		ug/L		103	70 - 130
gamma-Chlordane	<0.049		1.96	2.22		ug/L		113	70 - 130
Heptachlor	<0.0097		1.96	2.03		ug/L		104	70 - 130
Heptachlor epoxide (isomer B)	<0.0097		1.96	2.08		ug/L		106	70 - 130
Hexachlorobenzene	<0.049		1.96	2.04		ug/L		104	70 - 130
Hexachlorocyclopentadiene	<0.049		1.96	2.05		ug/L		105	70 - 130
Indeno[1,2,3-cd]pyrene	<0.049		1.96	1.74		ug/L		89	70 - 130
Isophorone	<0.097		1.96	1.85		ug/L		95	70 - 130
Lindane	<0.0097		1.96	2.01		ug/L		103	70 - 130
Malathion	<0.097		1.96	2.09		ug/L		106	70 - 130
Methoxychlor	<0.049	*1	1.96	1.88		ug/L		96	70 - 130

QC Sample Results

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

Job ID: 380-115753-1
SDG: Weekly

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

Lab Sample ID: 380-115709-C-1-A MS
Matrix: Water
Analysis Batch: 112094

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 111994

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec
	Result	Qualifier	Added	Result	Qualifier				
Metolachlor	<0.049		1.96	2.23		ug/L		114	70 - 130
Molinate	<0.097		1.96	2.00		ug/L		102	70 - 130
Naphthalene	<0.097		1.96	1.85		ug/L		95	70 - 130
Parathion	<0.097		1.96	2.45		ug/L		125	70 - 130
Pendimethalin (Penoxaline)	<0.097		1.96	2.01		ug/L		102	70 - 130
Phenanthrene	<0.039		1.96	1.88		ug/L		96	70 - 130
Propachlor	<0.049		1.96	2.04		ug/L		104	70 - 130
Pyrene	<0.049		1.96	2.02		ug/L		103	70 - 130
Simazine	<0.049		1.96	2.10		ug/L		107	70 - 130
Terbacil	<0.097		1.96	2.25		ug/L		115	70 - 130
Terbutylazine	<0.097		1.96	2.19		ug/L		112	70 - 130
Thiobencarb	<0.097		1.96	2.04		ug/L		104	70 - 130
trans-Nonachlor	<0.049		1.96	2.23		ug/L		114	70 - 130
Trifluralin	<0.097		1.96	1.83		ug/L		93	70 - 130

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	97		70 - 130
Perylene-d12	91		70 - 130
Triphenylphosphate	105		70 - 130

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

Lab Sample ID: MB 570-487444/1-A
Matrix: Water
Analysis Batch: 491128

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 487444

Tentatively Identified Compound	MB	MB	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
	Est. Result	Qualifier							
Tentatively Identified Compound	None		ug/L			N/A	10/03/24 09:59	10/14/24 11:03	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4,6-Tribromophenol (Surr)	79		33 - 139	10/03/24 09:59	10/14/24 11:03	1
2-Fluorobiphenyl (Surr)	75		33 - 126	10/03/24 09:59	10/14/24 11:03	1
2-Fluorophenol (Surr)	60		12 - 120	10/03/24 09:59	10/14/24 11:03	1
Nitrobenzene-d5 (Surr)	83		36 - 120	10/03/24 09:59	10/14/24 11:03	1
Phenol-d6 (Surr)	32		10 - 120	10/03/24 09:59	10/14/24 11:03	1
p-Terphenyl-d14 (Surr)	84		47 - 131	10/03/24 09:59	10/14/24 11:03	1

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

Lab Sample ID: MB 570-487444/1-A
Matrix: Water
Analysis Batch: 487832

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 487444

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1-Methylnaphthalene	<0.20		0.20	ug/L		10/03/24 09:59	10/04/24 11:28	1
2-Methylnaphthalene	<0.20		0.20	ug/L		10/03/24 09:59	10/04/24 11:28	1
Acenaphthene	<0.20		0.20	ug/L		10/03/24 09:59	10/04/24 11:28	1
Acenaphthylene	<0.20		0.20	ug/L		10/03/24 09:59	10/04/24 11:28	1

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QC Sample Results

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

Job ID: 380-115753-1
SDG: Weekly

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

Lab Sample ID: MB 570-487444/1-A
Matrix: Water
Analysis Batch: 487832

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 487444

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	<0.20		0.20	ug/L		10/03/24 09:59	10/04/24 11:28	1
Benzo[a]anthracene	<0.20		0.20	ug/L		10/03/24 09:59	10/04/24 11:28	1
Benzo[a]pyrene	<0.20		0.20	ug/L		10/03/24 09:59	10/04/24 11:28	1
Benzo[b]fluoranthene	<0.20		0.20	ug/L		10/03/24 09:59	10/04/24 11:28	1
Benzo[g,h,i]perylene	<0.20		0.20	ug/L		10/03/24 09:59	10/04/24 11:28	1
Benzo[k]fluoranthene	<0.20		0.20	ug/L		10/03/24 09:59	10/04/24 11:28	1
Chrysene	<0.20		0.20	ug/L		10/03/24 09:59	10/04/24 11:28	1
Dibenz(a,h)anthracene	<0.20		0.20	ug/L		10/03/24 09:59	10/04/24 11:28	1
Fluoranthene	<0.20		0.20	ug/L		10/03/24 09:59	10/04/24 11:28	1
Fluorene	<0.20		0.20	ug/L		10/03/24 09:59	10/04/24 11:28	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20	ug/L		10/03/24 09:59	10/04/24 11:28	1
Naphthalene	<0.20		0.20	ug/L		10/03/24 09:59	10/04/24 11:28	1
Phenanthrene	<0.20		0.20	ug/L		10/03/24 09:59	10/04/24 11:28	1
Pyrene	<0.20		0.20	ug/L		10/03/24 09:59	10/04/24 11:28	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	84		28 - 127	10/03/24 09:59	10/04/24 11:28	1
2-Fluorobiphenyl (Surr)	48		31 - 120	10/03/24 09:59	10/04/24 11:28	1
2-Fluorophenol (Surr)	48		17 - 120	10/03/24 09:59	10/04/24 11:28	1
Nitrobenzene-d5 (Surr)	52		27 - 120	10/03/24 09:59	10/04/24 11:28	1
Phenol-d6 (Surr)	32		10 - 120	10/03/24 09:59	10/04/24 11:28	1
p-Terphenyl-d14 (Surr)	52		45 - 120	10/03/24 09:59	10/04/24 11:28	1

Lab Sample ID: LCS 570-487444/2-A
Matrix: Water
Analysis Batch: 487832

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 487444

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1-Methylnaphthalene	40.0	27.3		ug/L		68	47 - 120
2-Methylnaphthalene	40.0	27.0		ug/L		67	43 - 120
Acenaphthene	40.0	34.7		ug/L		87	60 - 132
Acenaphthylene	40.0	36.0		ug/L		90	54 - 126
Anthracene	40.0	38.9		ug/L		97	43 - 120
Benzo[a]anthracene	40.0	41.4		ug/L		104	42 - 133
Benzo[a]pyrene	40.0	44.5		ug/L		111	32 - 148
Benzo[b]fluoranthene	40.0	42.9		ug/L		107	42 - 140
Benzo[g,h,i]perylene	40.0	40.7		ug/L		102	1 - 195
Benzo[k]fluoranthene	40.0	41.7		ug/L		104	25 - 146
Chrysene	40.0	39.8		ug/L		99	44 - 140
Dibenz(a,h)anthracene	40.0	41.0		ug/L		102	1 - 200
Fluoranthene	40.0	41.2		ug/L		103	43 - 121
Fluorene	40.0	37.6		ug/L		94	70 - 120
Indeno[1,2,3-cd]pyrene	40.0	41.3		ug/L		103	1 - 151
Naphthalene	40.0	23.6		ug/L		59	36 - 120
Phenanthrene	40.0	38.7		ug/L		97	65 - 120
Pyrene	40.0	39.1		ug/L		98	70 - 120

QC Sample Results

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

Job ID: 380-115753-1
SDG: Weekly

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

Lab Sample ID: LCS 570-487444/2-A
Matrix: Water
Analysis Batch: 487832

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 487444

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	86		28 - 127
2-Fluorobiphenyl (Surr)	45		31 - 120
2-Fluorophenol (Surr)	51		17 - 120
Nitrobenzene-d5 (Surr)	34		27 - 120
Phenol-d6 (Surr)	39		10 - 120
p-Terphenyl-d14 (Surr)	59		45 - 120

Lab Sample ID: LCSD 570-487444/3-A
Matrix: Water
Analysis Batch: 487832

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 487444

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
1-Methylnaphthalene	40.0	26.0		ug/L		65	47 - 120	5	20	
2-Methylnaphthalene	40.0	26.0		ug/L		65	43 - 120	4	20	
Acenaphthene	40.0	36.0		ug/L		90	60 - 132	4	29	
Acenaphthylene	40.0	37.0		ug/L		93	54 - 126	3	45	
Anthracene	40.0	39.9		ug/L		100	43 - 120	2	40	
Benzo[a]anthracene	40.0	41.7		ug/L		104	42 - 133	1	32	
Benzo[a]pyrene	40.0	45.4		ug/L		113	32 - 148	2	43	
Benzo[b]fluoranthene	40.0	42.6		ug/L		107	42 - 140	1	43	
Benzo[g,h,i]perylene	40.0	42.1		ug/L		105	1 - 195	3	61	
Benzo[k]fluoranthene	40.0	42.6		ug/L		107	25 - 146	2	38	
Chrysene	40.0	39.6		ug/L		99	44 - 140	0	53	
Dibenz(a,h)anthracene	40.0	42.4		ug/L		106	1 - 200	4	75	
Fluoranthene	40.0	41.9		ug/L		105	43 - 121	2	40	
Fluorene	40.0	38.4		ug/L		96	70 - 120	2	23	
Indeno[1,2,3-cd]pyrene	40.0	42.5		ug/L		106	1 - 151	3	60	
Naphthalene	40.0	23.4		ug/L		58	36 - 120	1	39	
Phenanthrene	40.0	39.2		ug/L		98	65 - 120	1	24	
Pyrene	40.0	38.7		ug/L		97	70 - 120	1	30	

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	85		28 - 127
2-Fluorobiphenyl (Surr)	44		31 - 120
2-Fluorophenol (Surr)	50		17 - 120
Nitrobenzene-d5 (Surr)	33		27 - 120
Phenol-d6 (Surr)	37		10 - 120
p-Terphenyl-d14 (Surr)	57		45 - 120

Lab Sample ID: 380-115753-3 MS
Matrix: Drinking Water
Analysis Batch: 488403

Client Sample ID: HALAWA WELLS UNITS 1 & 2 (331-206-TP065)
Prep Type: Total/NA
Prep Batch: 487444

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec	
				Result	Qualifier				Limits	RPD
1-Methylnaphthalene	<0.19		38.2	20.7		ug/L		54	36 - 120	
2-Methylnaphthalene	<0.19		38.2	20.5		ug/L		54	32 - 124	
Acenaphthene	<0.19		38.2	27.6		ug/L		72	47 - 145	
Acenaphthylene	<0.19		38.2	28.2		ug/L		74	33 - 145	

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QC Sample Results

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

Job ID: 380-115753-1
SDG: Weekly

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

Lab Sample ID: 380-115753-3 MSD
Matrix: Drinking Water
Analysis Batch: 488403

Client Sample ID: HALAWA WELLS UNITS 1 & 2 (331-206-TP065)
Prep Type: Total/NA
Prep Batch: 487444

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	68		28 - 127
2-Fluorobiphenyl (Surr)	39		31 - 120
2-Fluorophenol (Surr)	45		17 - 120
Nitrobenzene-d5 (Surr)	31		27 - 120
Phenol-d6 (Surr)	30		10 - 120
p-Terphenyl-d14 (Surr)	49		45 - 120

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

Lab Sample ID: MB 570-489970/11
Matrix: Water
Analysis Batch: 489970

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	<10		10	ug/L			10/10/24 17:53	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	89		38 - 134		10/10/24 17:53	1

Lab Sample ID: LCS 570-489970/1010
Matrix: Water
Analysis Batch: 489970

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (C4-C13)	400	427		ug/L		107	78 - 120

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

Lab Sample ID: LCSD 570-489970/12
Matrix: Water
Analysis Batch: 489970

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (C4-C13)	400	397		ug/L		99	78 - 120	7	10

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	96		38 - 134

Lab Sample ID: MRL 570-489970/1005
Matrix: Water
Analysis Batch: 489970

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (C4-C13)	10.0	10.7		ug/L		107	50 - 150

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-115753-1
SDG: Weekly

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

Lab Sample ID: MRL 570-489970/1005
Matrix: Water
Analysis Batch: 489970

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

<i>Surrogate</i>	<i>%Recovery</i>	<i>MRL MRL Qualifier</i>	<i>Limits</i>
4-Bromofluorobenzene (Surr)	79		38 - 134

Lab Sample ID: 380-115753-3 MS
Matrix: Drinking Water
Analysis Batch: 489970

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

<i>Analyte</i>	<i>Sample Result</i>	<i>Sample Qualifier</i>	<i>Spike Added</i>	<i>MS Result</i>	<i>MS Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec Limits</i>
Gasoline Range Organics (C4-C13)	<10		400	404		ug/L		101	68 - 122

<i>Surrogate</i>	<i>%Recovery</i>	<i>MS MS Qualifier</i>	<i>Limits</i>
4-Bromofluorobenzene (Surr)	92		38 - 134

Lab Sample ID: 380-115753-3 MSD
Matrix: Drinking Water
Analysis Batch: 489970

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

<i>Analyte</i>	<i>Sample Result</i>	<i>Sample Qualifier</i>	<i>Spike Added</i>	<i>MSD Result</i>	<i>MSD Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec Limits</i>	<i>RPD</i>	<i>RPD Limit</i>
Gasoline Range Organics (C4-C13)	<10		400	406		ug/L		101	68 - 122	0	18

<i>Surrogate</i>	<i>%Recovery</i>	<i>MSD MSD Qualifier</i>	<i>Limits</i>
4-Bromofluorobenzene (Surr)	93		38 - 134

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

Lab Sample ID: MB 570-488004/1-A
Matrix: Water
Analysis Batch: 488344

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 488004

<i>Analyte</i>	<i>MB Result</i>	<i>MB Qualifier</i>	<i>RL</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Diesel Range Organics (C10-C24)	<25		25	ug/L		10/04/24 13:52	10/06/24 06:58	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		10/04/24 13:52	10/06/24 06:58	1
C8-C18	<25		25	ug/L		10/04/24 13:52	10/06/24 06:58	1

<i>Surrogate</i>	<i>%Recovery</i>	<i>MB MB Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
n-Octacosane (Surr)	118		60 - 130	10/04/24 13:52	10/06/24 06:58	1

Lab Sample ID: LCS 570-488004/2-A
Matrix: Water
Analysis Batch: 488344

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 488004

<i>Analyte</i>	<i>Spike Added</i>	<i>LCS Result</i>	<i>LCS Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec Limits</i>
C10-C28	1600	1160		ug/L		72	56 - 127

<i>Surrogate</i>	<i>%Recovery</i>	<i>LCS LCS Qualifier</i>	<i>Limits</i>
n-Octacosane (Surr)	108		60 - 130

QC Sample Results

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

Job ID: 380-115753-1
SDG: Weekly

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

Lab Sample ID: LCSD 570-488004/3-A
Matrix: Water
Analysis Batch: 488344

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 488004

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
C10-C28	1600	1210		ug/L		76	56 - 127	5	23
Surrogate									
	%Recovery	Qualifier	Limits						
<i>n-Octacosane (Surr)</i>	116		60 - 130						

Lab Sample ID: MRL 570-488004/4-A
Matrix: Water
Analysis Batch: 488344

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 488004

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
C10-C28	0.0200	0.0222	J	mg/L		111	50 - 150		
Surrogate									
	%Recovery	Qualifier	Limits						
<i>n-Octacosane (Surr)</i>	112		60 - 130						

Lab Sample ID: 380-115753-3 MS
Matrix: Drinking Water
Analysis Batch: 488344

Client Sample ID: HALAWA WELLS UNITS 1 & 2 (331-206-TP065)
Prep Type: Total/NA
Prep Batch: 488004

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
C10-C28	<26		1630	1320		ug/L		81	70 - 130		
Surrogate											
	%Recovery	Qualifier	Limits								
<i>n-Octacosane (Surr)</i>	111		60 - 130								

Lab Sample ID: 380-115753-3 MSD
Matrix: Drinking Water
Analysis Batch: 488344

Client Sample ID: HALAWA WELLS UNITS 1 & 2 (331-206-TP065)
Prep Type: Total/NA
Prep Batch: 488004

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
C10-C28	<26		1630	1380		ug/L		85	70 - 130	5	20
Surrogate											
	%Recovery	Qualifier	Limits								
<i>n-Octacosane (Surr)</i>	112		60 - 130								

QC Association Summary

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

Job ID: 380-115753-1
SDG: Weekly

GC/MS Semi VOA

Prep Batch: 111994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-115753-1	Ka'amilo Wells	Total/NA	Water	525.2	
380-115753-3	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP0	Total/NA	Drinking Water	525.2	
MB 380-111994/21-A	Method Blank	Total/NA	Water	525.2	
LCS 380-111994/23-A	Lab Control Sample	Total/NA	Water	525.2	
LCSD 380-111994/24-A	Lab Control Sample Dup	Total/NA	Water	525.2	
MRL 380-111994/22-A	Lab Control Sample	Total/NA	Water	525.2	
380-115709-B-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	525.2	
380-115709-C-1-A MS	Matrix Spike	Total/NA	Water	525.2	

Analysis Batch: 112094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-115753-1	Ka'amilo Wells	Total/NA	Water	525.2	111994
380-115753-3	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP0	Total/NA	Drinking Water	525.2	111994
LCS 380-111994/23-A	Lab Control Sample	Total/NA	Water	525.2	111994
LCSD 380-111994/24-A	Lab Control Sample Dup	Total/NA	Water	525.2	111994
MRL 380-111994/22-A	Lab Control Sample	Total/NA	Water	525.2	111994
380-115709-B-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	525.2	111994
380-115709-C-1-A MS	Matrix Spike	Total/NA	Water	525.2	111994

Analysis Batch: 112221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 380-111994/21-A	Method Blank	Total/NA	Water	525.2	111994

Prep Batch: 487444

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-115753-1	Ka'amilo Wells	Total/NA	Water	625.1	
380-115753-3	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP0	Total/NA	Drinking Water	625.1	
MB 570-487444/1-A	Method Blank	Total/NA	Water	625.1	
LCS 570-487444/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 570-487444/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	
380-115753-3 MS	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Total/NA	Drinking Water	625.1	
380-115753-3 MSD	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Total/NA	Drinking Water	625.1	

Analysis Batch: 487832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-487444/1-A	Method Blank	Total/NA	Water	625.1 SIM	487444
LCS 570-487444/2-A	Lab Control Sample	Total/NA	Water	625.1 SIM	487444
LCSD 570-487444/3-A	Lab Control Sample Dup	Total/NA	Water	625.1 SIM	487444

Analysis Batch: 488403

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-115753-1	Ka'amilo Wells	Total/NA	Water	625.1 SIM	487444
380-115753-3	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP0	Total/NA	Drinking Water	625.1 SIM	487444
380-115753-3 MS	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Total/NA	Drinking Water	625.1 SIM	487444
380-115753-3 MSD	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Total/NA	Drinking Water	625.1 SIM	487444

Analysis Batch: 491128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-487444/1-A	Method Blank	Total/NA	Water	625.1	487444

QC Association Summary

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

Job ID: 380-115753-1
SDG: Weekly

GC/MS Semi VOA

Analysis Batch: 491732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-115753-1	Ka'amilo Wells	Total/NA	Water	625.1	487444
380-115753-3	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP01	Total/NA	Drinking Water	625.1	487444

GC VOA

Analysis Batch: 489970

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-115753-1	Ka'amilo Wells	Total/NA	Water	8015B GRO LL	
380-115753-2	TB: Ka'amilo Wells	Total/NA	Water	8015B GRO LL	
380-115753-3	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP01	Total/NA	Drinking Water	8015B GRO LL	
380-115753-4	TB: HALAWA WELLS UNITS 1&2 (331-206-TP06	Total/NA	Water	8015B GRO LL	
MB 570-489970/11	Method Blank	Total/NA	Water	8015B GRO LL	
LCS 570-489970/1010	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-489970/12	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	
MRL 570-489970/1005	Lab Control Sample	Total/NA	Water	8015B GRO LL	
380-115753-3 MS	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Total/NA	Drinking Water	8015B GRO LL	
380-115753-3 MSD	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Total/NA	Drinking Water	8015B GRO LL	

GC Semi VOA

Prep Batch: 488004

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-115753-1	Ka'amilo Wells	Total/NA	Water	3510C	
380-115753-3	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP01	Total/NA	Drinking Water	3510C	
MB 570-488004/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-488004/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-488004/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-488004/4-A	Lab Control Sample	Total/NA	Water	3510C	
380-115753-3 MS	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Total/NA	Drinking Water	3510C	
380-115753-3 MSD	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Total/NA	Drinking Water	3510C	

Analysis Batch: 488344

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-115753-1	Ka'amilo Wells	Total/NA	Water	8015B	488004
380-115753-3	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP01	Total/NA	Drinking Water	8015B	488004
MB 570-488004/1-A	Method Blank	Total/NA	Water	8015B	488004
LCS 570-488004/2-A	Lab Control Sample	Total/NA	Water	8015B	488004
LCSD 570-488004/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	488004
MRL 570-488004/4-A	Lab Control Sample	Total/NA	Water	8015B	488004
380-115753-3 MS	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Total/NA	Drinking Water	8015B	488004
380-115753-3 MSD	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Total/NA	Drinking Water	8015B	488004

Lab Chronicle

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

Job ID: 380-115753-1
SDG: Weekly

Client Sample ID: Ka'amilo Wells
Date Collected: 09/30/24 11:07
Date Received: 10/02/24 10:20

Lab Sample ID: 380-115753-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			111994	KRD3	EA POM	10/06/24 12:09
Total/NA	Analysis	525.2		1	112094	UPAC	EA POM	10/07/24 18:25
Total/NA	Prep	625.1			487444	H1SH	EET CAL 4	10/04/24 05:24
Total/NA	Analysis	625.1		1	491732	PQS1	EET CAL 4	10/15/24 19:00
Total/NA	Prep	625.1			487444	H1SH	EET CAL 4	10/04/24 05:24
Total/NA	Analysis	625.1 SIM		1	488403	PQS1	EET CAL 4	10/06/24 14:49
Total/NA	Analysis	8015B GRO LL		1	489970	A9VE	EET CAL 4	10/11/24 01:21
Total/NA	Prep	3510C			488004	H6FE	EET CAL 4	10/04/24 13:52
Total/NA	Analysis	8015B		1	488344	UJ3K	EET CAL 4	10/06/24 10:24

Client Sample ID: TB: Ka'amilo Wells
Date Collected: 09/30/24 11:07
Date Received: 10/02/24 10:20

Lab Sample ID: 380-115753-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	489970	A9VE	EET CAL 4	10/10/24 21:28

Client Sample ID: HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP065)
Date Collected: 09/30/24 09:44
Date Received: 10/02/24 10:20

Lab Sample ID: 380-115753-3
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			111994	KRD3	EA POM	10/06/24 12:09
Total/NA	Analysis	525.2		1	112094	UPAC	EA POM	10/07/24 18:46
Total/NA	Prep	625.1			487444	H1SH	EET CAL 4	10/04/24 05:24
Total/NA	Analysis	625.1		1	491732	PQS1	EET CAL 4	10/15/24 18:36
Total/NA	Prep	625.1			487444	H1SH	EET CAL 4	10/04/24 05:24
Total/NA	Analysis	625.1 SIM		1	488403	PQS1	EET CAL 4	10/06/24 14:28
Total/NA	Analysis	8015B GRO LL		1	489970	A9VE	EET CAL 4	10/10/24 18:48
Total/NA	Prep	3510C			488004	H6FE	EET CAL 4	10/04/24 13:52
Total/NA	Analysis	8015B		1	488344	UJ3K	EET CAL 4	10/06/24 10:45

Client Sample ID: TB: HALAWA WELLS UNITS 1&2 (331-206-TP065)
Date Collected: 09/30/24 09:44
Date Received: 10/02/24 10:20

Lab Sample ID: 380-115753-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	489970	A9VE	EET CAL 4	10/10/24 21:51

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: 380-115753-1
 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: 380-115753-1
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	11-15-24
Arkansas DEQ	State	88-0161	07-02-25
California	Los Angeles County Sanitation Districts	9257304	07-31-26
California	SCAQMD LAP	17LA0919	11-30-24
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

Method Summary

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

Job ID: 380-115753-1
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: 380-115753-1
SDG: Weekly

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
380-115753-1	Ka'amilo Wells	Water	09/30/24 11:07	10/02/24 10:20
380-115753-2	TB: Ka'amilo Wells	Water	09/30/24 11:07	10/02/24 10:20
380-115753-3	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP065)	Drinking Water	09/30/24 09:44	10/02/24 10:20
380-115753-4	TB: HALAWA WELLS UNITS 1&2 (331-206-TP065)	Water	09/30/24 09:44	10/02/24 10:20

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Chain of Custody Record



Client Information		Lab PM		COC No:	
Sampler: bailey		Arada, Rachelle		380-28005-2757 1	
Phone: +1 808 748 5840		E-Mail: Rachelle.Arada@et.euofins.com		Page: Page 1 of 1	
Company: PWSID:		City & County of Honolulu		Job #:	
Address: 630 South Beretania Street Chemistry Lab		Due Date Requested		Carrier Tracking No(s):	
City: Honolulu		TAT Requested (days)		State of Origin:	
State, Zip: HI, 96843		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No		Analysis Requested	
Phone: 808-748-5091(Tel)		PO #: C20525101 exp 05312023		537_1_DW_PREC 537 1 Full List	
Email: RFENSTEMACHER@hbws.org		WC #:		525_2_PREC - (MOD) 525plus Plus TICs	
Project Name: RED-HILL/HBWS Sites Event Desc: RUSH Weekly Red Hill		Project #: 38001111		8015B_DRD_LR_CS - HNL Ranges C10-C24/C24-C38/C8-C18	
Site: Hawaii		SSOW#:		8015B_GRO_LR - (MOD) GRO	
Sample Identification		Sample Date		825_1_625_1_SIM	
Ka'amilo Wells		30-Sep-2024		Perform MS/MSD (Yes or No)	
Ka'amilo Wells (Matrix Spike)		30-Sep-2024		Field Filtered Sample (Yes or No)	
Ka'amilo Wells (Matrix Spike Duplicate)		30-Sep-2024		8015B_DRD_LR_CS - HNL Ranges C10-C24/C24-C38/C8-C18	
TB: Ka'amilo Wells		30-Sep-2024		525_2_PREC - (MOD) 525plus Plus TICs	
Halawa Wells Units 1 & 2 P1		30-Sep-2024		537_1_DW_PREC 537 1 Full List	
Halawa Wells Units 1 & 2 (Matrix Spike)		30-Sep-2024		8015B_DRD_LR_CS - HNL Ranges C10-C24/C24-C38/C8-C18	
Halawa Wells Units 1 & 2 (Matrix Spike Duplicate)		30-Sep-2024		825_1_625_1_SIM	
TB: Halawa Wells Units 1 & 2		30-Sep-2024		Perform MS/MSD (Yes or No)	
Possible Hazard Identification		Sample Time		Preservation Code:	
<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		1107		G	
Deliverable Requested: I, II, III, IV, Other (specify)		1107		Water	
Empty Kit Relinquished by		0944		Water	
Date/Time: 10/2/2024 1400		0944		Water	
Company: HBWS		0944		Water	
Relinquished by		0944		Water	
Date/Time:		0944		Water	
Company:		0944		Water	
Relinquished by		0944		Water	
Date/Time:		0944		Water	
Company:		0944		Water	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.		Special Instructions/Note:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.		Special Instructions/Note:	



Chain of Custody Record

Client Information (Sub Contract Lab)		Lab Pk: Arada, Rachelle		Carrier Tracking No(s): 380-158212.1							
Client Contact: Shipping/Receiving		E-Mail: Rachelle.Arada@et.eurofins.com		Page: Page 1 of 1							
Company: Eurofins Environment Testing Southwest		Accreditations Required (See note): State Hawaii		Job #: 380-115753-1							
Address: 2841 Dow Avenue, Suite 100, Tustin State, Zip: CA, 92780		Due Date Requested: 10/15/2024		Preservation Codes:							
Phone: 714-895-5494(Tel)		TAT Requested (days):		Analysis Requested							
Email:		PO #:		 380-115753 Chain of Custody							
Project Name: RED-HILL		Project #: 38001111		Other							
Site: Honolulu BWS Sites		SOW#:		Total Number of Containers							
Sample Identification	Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Swild, Other)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8016B DRO_LL_CS7510C_LL_HNL Ranges: C10	825.1_SIM825_Prop (MOD) Extended PAH List	826.1_625_Prop (MOD) Tentatively Identified Compounds (Held)	Special Instructions/Note:
Kaamilo Wells (380-115753-1)		9/30/24	11:07 Hawaiian	G	Water	X	X	X	X	X	MRLs are needed. Confirm any hits >RL.
TB: Kaamilo Wells (380-115753-2)		9/30/24	11:07 Hawaiian	G	Water	X	X	X	X	X	MRLs are needed.
HALAWA WELLS UNITS 1 & 2 (331-206-TP065) (380-115753-3)		9/30/24	09:44 Hawaiian	G	Water	X	X	X	X	X	MRLs are needed. Confirm any hits >RL.
HALAWA WELLS UNITS 1 & 2 (331-206-TP065) (380-115753-3M)		9/30/24	09:44 Hawaiian	G	Water	X	X	X	X	X	MRLs are needed. Confirm any hits >RL.
HALAWA WELLS UNITS 1 & 2 (331-206-TP065) (380-115753-3M)		9/30/24	09:44 Hawaiian	G	Water	X	X	X	X	X	MRLs are needed. Confirm any hits >RL.
TB: HALAWA WELLS UNITS 182 (331-206-TP065) (380-115753-3)		9/30/24	09:44 Hawaiian	G	Water	X	X	X	X	X	MRLs are needed.

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

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

Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: _____ Date/Time: 10/15/24 11:10
 Relinquished by: _____ Date/Time: _____
 Relinquished by: _____ Date/Time: _____

Cooler Temperature(s) °C and Other Remarks: 1.3 / 2.0 SC12
 Company: _____
 Company: _____
 Company: _____



Chain of Custody Record



Client Information (Sub Contract Lab)		Lab Pk: Arada, Rachelle		Carrier Tracking No(s): 380-158212.1								
Client Contact: Shipping/Receiving		E-Mail: Rachelle.Arada@et.eurofins.com		Page: Page 1 of 1								
Company: Eurofins Environment Testing Southwest		Accreditations Required (See note): State Hawaii		Job #: 380-115753-1								
Address: 2841 Dow Avenue, Suite 100, Tustin State, Zip: CA, 92780		Due Date Requested: 10/15/2024		Preservation Codes:								
Phone: 714-895-5494(Tel)		TAT Requested (days):		Analysis Requested								
Email:		PO #:		 380-115753 Chain of Custody								
Project Name: RED-HILL		Project #: 38001111		Other								
Site: Honolulu BWS Sites		SOW#:		Total Number of Containers MRLs are needed. Confirm any hits >RL.								
Sample Identification	Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Swild, Other)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8016B DRO_LL_CS7510C_LL_HNL Ranges: C10	825.1_SIM825_Prop (MOD) Extended PAH List	826.1625_Prop (MOD) Tentatively Identified Compounds (Held)	Special Instructions/Note:	
Kaamilo Wells (380-115753-1)		9/30/24	11:07 Hawaiian	G	Water	X	X	X	X	X	7	MRLs are needed. Confirm any hits >RL.
TB: Kaamilo Wells (380-115753-2)		9/30/24	11:07 Hawaiian	G	Water	X	X	X	X	X	2	MRLs are needed.
HALAWA WELLS UNITS 1 & 2 (331-206-TP065) (380-115753-3)		9/30/24	09:44 Hawaiian	G	Water	X	X	X	X	X	7	MRLs are needed. Confirm any hits >RL.
HALAWA WELLS UNITS 1 & 2 (331-206-TP065) (380-115753-3M)		9/30/24	09:44 Hawaiian	G	Water	X	X	X	X	X	3	MRLs are needed. Confirm any hits >RL.
HALAWA WELLS UNITS 1 & 2 (331-206-TP065) (380-115753-3M)		9/30/24	09:44 Hawaiian	G	Water	X	X	X	X	X	3	MRLs are needed. Confirm any hits >RL.
TB: HALAWA WELLS UNITS 182 (331-206-TP065) (380-115753-3)		9/30/24	09:44 Hawaiian	G	Water	X	X	X	X	X	2	MRLs are needed.

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

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

Primary Deliverable Rank: 2
 Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: _____ Date: 10/15/24 11:10
 Relinquished by: _____ Date: _____
 Relinquished by: _____ Date: _____
 Custody Seal Intact: Yes No Cooler Temperature(s) °C and Other Remarks: 1.3/2.0 SC12
 Ver 05/06/2024



Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-115753-1

SDG Number: Weekly

Login Number: 115753

List Number: 1

Creator: Gerfen, Chris

List Source: Eurofins Eaton Analytical Pomona

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



Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-115753-1

SDG Number: Weekly

Login Number: 115753

List Number: 2

Creator: Khana, Piyush

List Source: Eurofins Calscience

List Creation: 10/03/24 01:48 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	2.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <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	

