

ANALYTICAL REPORT

PREPARED FOR

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JOB DESCRIPTION

RED-HILL
Weekly

JOB NUMBER

380-147387-1

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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Definitions/Glossary

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

Job ID: 380-147387-1
SDG: Weekly

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
^3+	Reporting Limit Check Standard is outside acceptance limits, high biased
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 VOA

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

GC Semi VOA

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

Glossary

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

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Definitions/Glossary

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

Job ID: 380-147387-1
SDG: Weekly

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

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

Case Narrative

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

Job ID: 380-147387-1

Job ID: 380-147387-1

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Job Narrative 380-147387-1

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

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

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

Receipt

The samples were received on 4/24/2025 9:34 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.7°C and 1.2°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

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

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

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

Detection Summary

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

Job ID: 380-147387-1
SDG: Weekly

Client Sample ID: Halawa Shaft Viewing Pool

Lab Sample ID: 380-147387-1

☐ No Detections.

Client Sample ID: TRIP BLANK

Lab Sample ID: 380-147387-2

☐ No Detections.

This Detection Summary does not include radiochemical test results.

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Client Sample Results

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

Job ID: 380-147387-1
SDG: Weekly

Client Sample ID: Halawa Shaft Viewing Pool

Lab Sample ID: 380-147387-1

Date Collected: 04/22/25 09:30

Matrix: Water

Date Received: 04/24/25 09:34

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.10		0.10	ug/L		04/25/25 13:35	04/28/25 18:58	1
2,4'-DDD	<0.10		0.10	ug/L		04/25/25 13:35	04/28/25 18:58	1
2,4'-DDE	<0.10		0.10	ug/L		04/25/25 13:35	04/28/25 18:58	1
2,4'-DDT	<0.10		0.10	ug/L		04/25/25 13:35	04/28/25 18:58	1
2,4-Dinitrotoluene	<0.10		0.10	ug/L		04/25/25 13:35	04/28/25 18:58	1
2,6-Dinitrotoluene	<0.10		0.10	ug/L		04/25/25 13:35	04/28/25 18:58	1
2-Methylnaphthalene	<0.10		0.10	ug/L		04/25/25 13:35	04/28/25 18:58	1
4,4'-DDD	<0.10		0.10	ug/L		04/25/25 13:35	04/28/25 18:58	1
4,4'-DDE	<0.10		0.10	ug/L		04/25/25 13:35	04/28/25 18:58	1
4,4'-DDT	<0.10		0.10	ug/L		04/25/25 13:35	04/28/25 18:58	1
Acenaphthene	<0.10		0.10	ug/L		04/25/25 13:35	04/28/25 18:58	1
Acenaphthylene	<0.10		0.10	ug/L		04/25/25 13:35	04/28/25 18:58	1
Acetochlor	<0.10		0.10	ug/L		04/25/25 13:35	04/28/25 18:58	1
Alachlor	<0.050		0.050	ug/L		04/25/25 13:35	04/28/25 18:58	1
alpha-BHC	<0.10		0.10	ug/L		04/25/25 13:35	04/28/25 18:58	1
alpha-Chlordane	<0.050		0.050	ug/L		04/25/25 13:35	04/28/25 18:58	1
Anthracene	<0.020		0.020	ug/L		04/25/25 13:35	04/28/25 18:58	1
Atrazine	<0.050		0.050	ug/L		04/25/25 13:35	04/28/25 18:58	1
Benz(a)anthracene	<0.050		0.050	ug/L		04/25/25 13:35	04/28/25 18:58	1
Benzo[a]pyrene	<0.020		0.020	ug/L		04/25/25 13:35	04/28/25 18:58	1
Benzo[b]fluoranthene	<0.020	^3+	0.020	ug/L		04/25/25 13:35	04/28/25 18:58	1
Benzo[g,h,i]perylene	<0.050		0.050	ug/L		04/25/25 13:35	04/28/25 18:58	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		04/25/25 13:35	04/28/25 18:58	1
beta-BHC	<0.10		0.10	ug/L		04/25/25 13:35	04/28/25 18:58	1
Bis(2-ethylhexyl) phthalate	<0.60		0.60	ug/L		04/25/25 13:35	04/28/25 18:58	1
Bromacil	<0.10		0.10	ug/L		04/25/25 13:35	04/28/25 18:58	1
Butachlor	<0.050		0.050	ug/L		04/25/25 13:35	04/28/25 18:58	1
Butylbenzylphthalate	<0.50		0.50	ug/L		04/25/25 13:35	04/28/25 18:58	1
Chlorobenzilate	<0.10		0.10	ug/L		04/25/25 13:35	04/28/25 18:58	1
Chloroneb	<0.10		0.10	ug/L		04/25/25 13:35	04/28/25 18:58	1
Chlorothalonil (Draconil, Bravo)	<0.10		0.10	ug/L		04/25/25 13:35	04/28/25 18:58	1
Chlorpyrifos	<0.050		0.050	ug/L		04/25/25 13:35	04/28/25 18:58	1
Chrysene	<0.020		0.020	ug/L		04/25/25 13:35	04/28/25 18:58	1
delta-BHC	<0.10		0.10	ug/L		04/25/25 13:35	04/28/25 18:58	1
Di(2-ethylhexyl)adipate	<0.60		0.60	ug/L		04/25/25 13:35	04/28/25 18:58	1
Dibenz(a,h)anthracene	<0.050		0.050	ug/L		04/25/25 13:35	04/28/25 18:58	1
Diclorvos (DDVP)	<0.050		0.050	ug/L		04/25/25 13:35	04/28/25 18:58	1
Dieldrin	<0.010		0.010	ug/L		04/25/25 13:35	04/28/25 18:58	1
Diethylphthalate	<0.50		0.50	ug/L		04/25/25 13:35	04/28/25 18:58	1
Dimethylphthalate	<0.50		0.50	ug/L		04/25/25 13:35	04/28/25 18:58	1
Di-n-butyl phthalate	<1.0		1.0	ug/L		04/25/25 13:35	04/28/25 18:58	1
Di-n-octyl phthalate	<0.10		0.10	ug/L		04/25/25 13:35	04/28/25 18:58	1
Endosulfan I (Alpha)	<0.10		0.10	ug/L		04/25/25 13:35	04/28/25 18:58	1
Endosulfan II (Beta)	<0.10		0.10	ug/L		04/25/25 13:35	04/28/25 18:58	1
Endosulfan sulfate	<0.10		0.10	ug/L		04/25/25 13:35	04/28/25 18:58	1
Endrin	<0.010		0.010	ug/L		04/25/25 13:35	04/28/25 18:58	1
Endrin aldehyde	<0.10		0.10	ug/L		04/25/25 13:35	04/28/25 18:58	1
EPTC	<0.10		0.10	ug/L		04/25/25 13:35	04/28/25 18:58	1
Fluoranthene	<0.10		0.10	ug/L		04/25/25 13:35	04/28/25 18:58	1

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Client Sample Results

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

Job ID: 380-147387-1
SDG: Weekly

Client Sample ID: Halawa Shaft Viewing Pool

Lab Sample ID: 380-147387-1

Date Collected: 04/22/25 09:30

Matrix: Water

Date Received: 04/24/25 09:34

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	<0.050		0.050	ug/L		04/25/25 13:35	04/28/25 18:58	1
gamma-Chlordane	<0.050		0.050	ug/L		04/25/25 13:35	04/28/25 18:58	1
Heptachlor	<0.010		0.010	ug/L		04/25/25 13:35	04/28/25 18:58	1
Heptachlor epoxide (isomer B)	<0.010		0.010	ug/L		04/25/25 13:35	04/28/25 18:58	1
Hexachlorobenzene	<0.050		0.050	ug/L		04/25/25 13:35	04/28/25 18:58	1
Hexachlorocyclopentadiene	<0.050		0.050	ug/L		04/25/25 13:35	04/28/25 18:58	1
Indeno[1,2,3-cd]pyrene	<0.050		0.050	ug/L		04/25/25 13:35	04/28/25 18:58	1
Isophorone	<0.10		0.10	ug/L		04/25/25 13:35	04/28/25 18:58	1
Lindane	<0.010		0.010	ug/L		04/25/25 13:35	04/28/25 18:58	1
Malathion	<0.10		0.10	ug/L		04/25/25 13:35	04/28/25 18:58	1
Methoxychlor	<0.050		0.050	ug/L		04/25/25 13:35	04/28/25 18:58	1
Metolachlor	<0.050		0.050	ug/L		04/25/25 13:35	04/28/25 18:58	1
Molinate	<0.10		0.10	ug/L		04/25/25 13:35	04/28/25 18:58	1
Naphthalene	<0.10		0.10	ug/L		04/25/25 13:35	04/28/25 18:58	1
Parathion	<0.10	^+ *+	0.10	ug/L		04/25/25 13:35	04/28/25 18:58	1
Pendimethalin (Penoxaline)	<0.10		0.10	ug/L		04/25/25 13:35	04/28/25 18:58	1
Phenanthrene	<0.040		0.040	ug/L		04/25/25 13:35	04/28/25 18:58	1
Propachlor	<0.050		0.050	ug/L		04/25/25 13:35	04/28/25 18:58	1
Pyrene	<0.050		0.050	ug/L		04/25/25 13:35	04/28/25 18:58	1
Simazine	<0.050		0.050	ug/L		04/25/25 13:35	04/28/25 18:58	1
Terbacil	<0.10		0.10	ug/L		04/25/25 13:35	04/28/25 18:58	1
Terbutylazine	<0.10		0.10	ug/L		04/25/25 13:35	04/28/25 18:58	1
Thiobencarb	<0.10		0.10	ug/L		04/25/25 13:35	04/28/25 18:58	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		04/25/25 13:35	04/28/25 18:58	1
trans-Nonachlor	<0.050		0.050	ug/L		04/25/25 13:35	04/28/25 18:58	1
Trifluralin	<0.10		0.10	ug/L		04/25/25 13:35	04/28/25 18:58	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	04/25/25 13:35	04/28/25 18:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	103		70 - 130	04/25/25 13:35	04/28/25 18:58	1
Perylene-d12	88		70 - 130	04/25/25 13:35	04/28/25 18:58	1
Triphenylphosphate	91		70 - 130	04/25/25 13:35	04/28/25 18:58	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.19		0.19	ug/L		04/25/25 16:28	05/07/25 11:57	1
2-Methylnaphthalene	<0.19		0.19	ug/L		04/25/25 16:28	05/07/25 11:57	1
Acenaphthene	<0.19		0.19	ug/L		04/25/25 16:28	05/07/25 11:57	1
Acenaphthylene	<0.19		0.19	ug/L		04/25/25 16:28	05/07/25 11:57	1
Anthracene	<0.19		0.19	ug/L		04/25/25 16:28	05/07/25 11:57	1
Benzo[a]anthracene	<0.19		0.19	ug/L		04/25/25 16:28	05/07/25 11:57	1
Benzo[a]pyrene	<0.19		0.19	ug/L		04/25/25 16:28	05/07/25 11:57	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		04/25/25 16:28	05/07/25 11:57	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		04/25/25 16:28	05/07/25 11:57	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		04/25/25 16:28	05/07/25 11:57	1
Chrysene	<0.19		0.19	ug/L		04/25/25 16:28	05/07/25 11:57	1
Dibenz(a,h)anthracene	<0.19		0.19	ug/L		04/25/25 16:28	05/07/25 11:57	1
Fluoranthene	<0.19		0.19	ug/L		04/25/25 16:28	05/07/25 11:57	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-147387-1
SDG: Weekly

Client Sample ID: Halawa Shaft Viewing Pool

Lab Sample ID: 380-147387-1

Date Collected: 04/22/25 09:30

Matrix: Water

Date Received: 04/24/25 09:34

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		04/25/25 16:28	05/07/25 11:57	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		04/25/25 16:28	05/07/25 11:57	1
Naphthalene	<0.19		0.19	ug/L		04/25/25 16:28	05/07/25 11:57	1
Phenanthrene	<0.19		0.19	ug/L		04/25/25 16:28	05/07/25 11:57	1
Pyrene	<0.19		0.19	ug/L		04/25/25 16:28	05/07/25 11:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	110		28 - 127	04/25/25 16:28	05/07/25 11:57	1
2-Fluorobiphenyl (Surr)	92		31 - 120	04/25/25 16:28	05/07/25 11:57	1
2-Fluorophenol (Surr)	52		17 - 120	04/25/25 16:28	05/07/25 11:57	1
Nitrobenzene-d5 (Surr)	95		27 - 120	04/25/25 16:28	05/07/25 11:57	1
Phenol-d6 (Surr)	33		10 - 120	04/25/25 16:28	05/07/25 11:57	1
p-Terphenyl-d14 (Surr)	90		45 - 120	04/25/25 16:28	05/07/25 11:57	1

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

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	04/25/25 16:28	05/07/25 12:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	72		33 - 139	04/25/25 16:28	05/07/25 12:43	1
2-Fluorobiphenyl (Surr)	82		33 - 126	04/25/25 16:28	05/07/25 12:43	1
2-Fluorophenol (Surr)	48		12 - 120	04/25/25 16:28	05/07/25 12:43	1
Nitrobenzene-d5 (Surr)	100		36 - 120	04/25/25 16:28	05/07/25 12:43	1
Phenol-d6 (Surr)	34		10 - 120	04/25/25 16:28	05/07/25 12:43	1
p-Terphenyl-d14 (Surr)	80		47 - 131	04/25/25 16:28	05/07/25 12:43	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	<10		10	ug/L			04/28/25 21:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		38 - 134		04/28/25 21:31	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)	<25		25	ug/L		04/28/25 14:57	05/05/25 21:46	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		04/28/25 14:57	05/05/25 21:46	1
C8-C18	<25		25	ug/L		04/28/25 14:57	05/05/25 21:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	113		60 - 130	04/28/25 14:57	05/05/25 21:46	1

Client Sample ID: TRIP BLANK

Lab Sample ID: 380-147387-2

Date Collected: 04/22/25 09:30

Matrix: Water

Date Received: 04/24/25 09:34

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	<10		10	ug/L			04/28/25 17:59	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-147387-1
SDG: Weekly

Client Sample ID: TRIP BLANK

Lab Sample ID: 380-147387-2

Date Collected: 04/22/25 09:30

Matrix: Water

Date Received: 04/24/25 09:34

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		38 - 134		04/28/25 17:59	1

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

Action Limit Summary

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

Job ID: 380-147387-1
SDG: Weekly

Client Sample ID: Halawa Shaft Viewing Pool

Lab Sample ID: 380-147387-1

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	<0.050		ug/L	2	0.050	525.2	Total/NA
Atrazine	<0.050		ug/L	3	0.050	525.2	Total/NA
Benzo[a]pyrene	<0.020		ug/L	0.2	0.020	525.2	Total/NA
Bis(2-ethylhexyl) phthalate	<0.60		ug/L	6	0.60	525.2	Total/NA
Di(2-ethylhexyl)adipate	<0.60		ug/L	400	0.60	525.2	Total/NA
Endrin	<0.010		ug/L	2	0.010	525.2	Total/NA
Heptachlor	<0.010		ug/L	0.4	0.010	525.2	Total/NA
Heptachlor epoxide (isomer B)	<0.010		ug/L	0.2	0.010	525.2	Total/NA
Hexachlorobenzene	<0.050		ug/L	1	0.050	525.2	Total/NA
Hexachlorocyclopentadiene	<0.050		ug/L	50	0.050	525.2	Total/NA
Lindane	<0.010		ug/L	0.2	0.010	525.2	Total/NA
Methoxychlor	<0.050		ug/L	40	0.050	525.2	Total/NA
Simazine	<0.050		ug/L	4	0.050	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: 380-147387-1
SDG: Weekly

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)
380-146614-AQ-1-A MS	Matrix Spike	102	91	95
380-146614-AR-1-A MSD	Matrix Spike Duplicate	101	89	94
380-147387-1	Halawa Shaft Viewing Pool	103	88	91
LCS 380-149367/23-A	Lab Control Sample	100	91	95
MB 380-149367/21-A	Method Blank	102	85	93
MRL 380-149367/22-A	Lab Control Sample	101	87	91

Surrogate Legend

2NMX = 2-Nitro-m-xylene

PRY = Perylene-d12

TPP = Triphenylphosphate

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)
380-147387-1	Halawa Shaft Viewing Pool	72	82	48	100	34	80
MB 570-563059/1-A	Method Blank	78	81	47	105	33	85

Surrogate Legend

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

FBP = 2-Fluorobiphenyl (Surr)

2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

PHL6 = Phenol-d6 (Surr)

TPHd14 = p-Terphenyl-d14 (Surr)

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

Matrix: 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)
380-147387-1	Halawa Shaft Viewing Pool	110	92	52	95	33	90

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: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (38-134)	
380-147387-1	Halawa Shaft Viewing Pool	84	

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Surrogate Summary

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

Job ID: 380-147387-1
SDG: Weekly

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (38-134)
380-147387-2	TRIP BLANK	86
380-147415-B-3 MS	Matrix Spike	92
380-147415-B-3 MSD	Matrix Spike Duplicate	90
LCS 570-563681/4	Lab Control Sample	89
LCSD 570-563681/5	Lab Control Sample Dup	87
MB 570-563681/6	Method Blank	81
MRL 570-563681/3	Lab Control Sample	85

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	OTCSN1 (60-130)
380-147387-1	Halawa Shaft Viewing Pool	113
380-147415-C-3-C MS	Matrix Spike	124
380-147415-C-3-D MSD	Matrix Spike Duplicate	113
LCS 570-563894/2-B	Lab Control Sample	120
LCSD 570-563894/3-B	Lab Control Sample Dup	124
MB 570-563894/1-B	Method Blank	134 S1+
MRL 570-563894/4-B	Lab Control Sample	126

Surrogate Legend

OTCSN = n-Octacosane (Surr)

QC Sample Results

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

Job ID: 380-147387-1
SDG: Weekly

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

Lab Sample ID: MB 380-149367/21-A

Matrix: Water

Analysis Batch: 149594

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 149367

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.099		0.099	ug/L		04/25/25 13:35	04/28/25 12:11	1
2,4'-DDD	<0.099		0.099	ug/L		04/25/25 13:35	04/28/25 12:11	1
2,4'-DDE	<0.099		0.099	ug/L		04/25/25 13:35	04/28/25 12:11	1
2,4'-DDT	<0.099		0.099	ug/L		04/25/25 13:35	04/28/25 12:11	1
2,4-Dinitrotoluene	<0.099		0.099	ug/L		04/25/25 13:35	04/28/25 12:11	1
2,6-Dinitrotoluene	<0.099		0.099	ug/L		04/25/25 13:35	04/28/25 12:11	1
2-Methylnaphthalene	<0.099		0.099	ug/L		04/25/25 13:35	04/28/25 12:11	1
4,4'-DDD	<0.099		0.099	ug/L		04/25/25 13:35	04/28/25 12:11	1
4,4'-DDE	<0.099		0.099	ug/L		04/25/25 13:35	04/28/25 12:11	1
4,4'-DDT	<0.099		0.099	ug/L		04/25/25 13:35	04/28/25 12:11	1
Acenaphthene	<0.099		0.099	ug/L		04/25/25 13:35	04/28/25 12:11	1
Acenaphthylene	<0.099		0.099	ug/L		04/25/25 13:35	04/28/25 12:11	1
Acetochlor	<0.099		0.099	ug/L		04/25/25 13:35	04/28/25 12:11	1
Alachlor	<0.049		0.049	ug/L		04/25/25 13:35	04/28/25 12:11	1
alpha-BHC	<0.099		0.099	ug/L		04/25/25 13:35	04/28/25 12:11	1
alpha-Chlordane	<0.049		0.049	ug/L		04/25/25 13:35	04/28/25 12:11	1
Anthracene	<0.020		0.020	ug/L		04/25/25 13:35	04/28/25 12:11	1
Atrazine	<0.049		0.049	ug/L		04/25/25 13:35	04/28/25 12:11	1
Benz(a)anthracene	<0.049		0.049	ug/L		04/25/25 13:35	04/28/25 12:11	1
Benzo[a]pyrene	<0.020		0.020	ug/L		04/25/25 13:35	04/28/25 12:11	1
Benzo[b]fluoranthene	<0.020	^3+	0.020	ug/L		04/25/25 13:35	04/28/25 12:11	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		04/25/25 13:35	04/28/25 12:11	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		04/25/25 13:35	04/28/25 12:11	1
beta-BHC	<0.099		0.099	ug/L		04/25/25 13:35	04/28/25 12:11	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		04/25/25 13:35	04/28/25 12:11	1
Bromacil	<0.099		0.099	ug/L		04/25/25 13:35	04/28/25 12:11	1
Butachlor	<0.049		0.049	ug/L		04/25/25 13:35	04/28/25 12:11	1
Butylbenzylphthalate	<0.49		0.49	ug/L		04/25/25 13:35	04/28/25 12:11	1
Chlorobenzilate	<0.099		0.099	ug/L		04/25/25 13:35	04/28/25 12:11	1
Chloroneb	<0.099		0.099	ug/L		04/25/25 13:35	04/28/25 12:11	1
Chlorothalonil (Draconil, Bravo)	<0.099		0.099	ug/L		04/25/25 13:35	04/28/25 12:11	1
Chlorpyrifos	<0.049		0.049	ug/L		04/25/25 13:35	04/28/25 12:11	1
Chrysene	<0.020		0.020	ug/L		04/25/25 13:35	04/28/25 12:11	1
delta-BHC	<0.099		0.099	ug/L		04/25/25 13:35	04/28/25 12:11	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		04/25/25 13:35	04/28/25 12:11	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		04/25/25 13:35	04/28/25 12:11	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		04/25/25 13:35	04/28/25 12:11	1
Dieldrin	<0.0099		0.0099	ug/L		04/25/25 13:35	04/28/25 12:11	1
Diethylphthalate	<0.49		0.49	ug/L		04/25/25 13:35	04/28/25 12:11	1
Dimethylphthalate	<0.49		0.49	ug/L		04/25/25 13:35	04/28/25 12:11	1
Di-n-butyl phthalate	<0.99		0.99	ug/L		04/25/25 13:35	04/28/25 12:11	1
Di-n-octyl phthalate	<0.099		0.099	ug/L		04/25/25 13:35	04/28/25 12:11	1
Endosulfan I (Alpha)	<0.099		0.099	ug/L		04/25/25 13:35	04/28/25 12:11	1
Endosulfan II (Beta)	<0.099		0.099	ug/L		04/25/25 13:35	04/28/25 12:11	1
Endosulfan sulfate	<0.099		0.099	ug/L		04/25/25 13:35	04/28/25 12:11	1
Endrin	<0.0099		0.0099	ug/L		04/25/25 13:35	04/28/25 12:11	1
Endrin aldehyde	<0.099		0.099	ug/L		04/25/25 13:35	04/28/25 12:11	1
EPTC	<0.099		0.099	ug/L		04/25/25 13:35	04/28/25 12:11	1

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QC Sample Results

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

Job ID: 380-147387-1
SDG: Weekly

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

Lab Sample ID: MB 380-149367/21-A

Matrix: Water

Analysis Batch: 149594

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 149367

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.099		0.099	ug/L		04/25/25 13:35	04/28/25 12:11	1
Fluorene	<0.049		0.049	ug/L		04/25/25 13:35	04/28/25 12:11	1
gamma-Chlordane	<0.049		0.049	ug/L		04/25/25 13:35	04/28/25 12:11	1
Heptachlor	<0.0099		0.0099	ug/L		04/25/25 13:35	04/28/25 12:11	1
Heptachlor epoxide (isomer B)	<0.0099		0.0099	ug/L		04/25/25 13:35	04/28/25 12:11	1
Hexachlorobenzene	<0.049		0.049	ug/L		04/25/25 13:35	04/28/25 12:11	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		04/25/25 13:35	04/28/25 12:11	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		04/25/25 13:35	04/28/25 12:11	1
Isophorone	<0.099		0.099	ug/L		04/25/25 13:35	04/28/25 12:11	1
Lindane	<0.0099		0.0099	ug/L		04/25/25 13:35	04/28/25 12:11	1
Malathion	<0.099		0.099	ug/L		04/25/25 13:35	04/28/25 12:11	1
Methoxychlor	<0.049		0.049	ug/L		04/25/25 13:35	04/28/25 12:11	1
Metolachlor	<0.049		0.049	ug/L		04/25/25 13:35	04/28/25 12:11	1
Molinate	<0.099		0.099	ug/L		04/25/25 13:35	04/28/25 12:11	1
Naphthalene	<0.099		0.099	ug/L		04/25/25 13:35	04/28/25 12:11	1
Parathion	<0.099		0.099	ug/L		04/25/25 13:35	04/28/25 12:11	1
Pendimethalin (Penoxaline)	<0.099		0.099	ug/L		04/25/25 13:35	04/28/25 12:11	1
Phenanthrene	<0.039		0.039	ug/L		04/25/25 13:35	04/28/25 12:11	1
Propachlor	<0.049		0.049	ug/L		04/25/25 13:35	04/28/25 12:11	1
Pyrene	<0.049		0.049	ug/L		04/25/25 13:35	04/28/25 12:11	1
Simazine	<0.049		0.049	ug/L		04/25/25 13:35	04/28/25 12:11	1
Terbacil	<0.099		0.099	ug/L		04/25/25 13:35	04/28/25 12:11	1
Terbutylazine	<0.099		0.099	ug/L		04/25/25 13:35	04/28/25 12:11	1
Thiobencarb	<0.099		0.099	ug/L		04/25/25 13:35	04/28/25 12:11	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		04/25/25 13:35	04/28/25 12:11	1
trans-Nonachlor	<0.049		0.049	ug/L		04/25/25 13:35	04/28/25 12:11	1
Trifluralin	<0.099		0.099	ug/L		04/25/25 13:35	04/28/25 12:11	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	1.03	T J	ug/L		2.61	N/A	04/25/25 13:35	04/28/25 12:11	1
Decane	3.44	T J N	ug/L		2.85	124-18-5	04/25/25 13:35	04/28/25 12:11	1
9-Octadecenamide, (Z)-	2.77	T J N	ug/L		8.07	301-02-0	04/25/25 13:35	04/28/25 12:11	1
13-Docosenamide, (Z)-	0.732	T J N	ug/L		10.69	112-84-5	04/25/25 13:35	04/28/25 12:11	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	102		70 - 130	04/25/25 13:35	04/28/25 12:11	1
Perylene-d12	85		70 - 130	04/25/25 13:35	04/28/25 12:11	1
Triphenylphosphate	93		70 - 130	04/25/25 13:35	04/28/25 12:11	1

Lab Sample ID: LCS 380-149367/23-A

Matrix: Water

Analysis Batch: 149594

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 149367

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	1.96	1.99		ug/L		102	70 - 130
2,4'-DDD	1.96	2.11		ug/L		108	70 - 130
2,4'-DDE	1.96	2.11		ug/L		107	70 - 130
2,4'-DDT	1.96	1.97		ug/L		100	70 - 130

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QC Sample Results

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

Job ID: 380-147387-1
SDG: Weekly

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

Lab Sample ID: LCS 380-149367/23-A

Matrix: Water

Analysis Batch: 149594

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 149367

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4-Dinitrotoluene	1.96	2.15		ug/L		110	70 - 130
2,6-Dinitrotoluene	1.96	2.36		ug/L		121	70 - 130
2-Methylnaphthalene	1.96	2.03		ug/L		103	70 - 130
4,4'-DDD	1.96	2.11		ug/L		107	70 - 130
4,4'-DDE	1.96	1.88		ug/L		96	70 - 130
4,4'-DDT	1.96	2.06		ug/L		105	70 - 130
Acenaphthene	1.96	2.09		ug/L		106	70 - 130
Acenaphthylene	1.96	2.06		ug/L		105	70 - 130
Acetochlor	1.96	2.39		ug/L		122	70 - 130
Alachlor	1.96	2.44		ug/L		124	70 - 130
alpha-BHC	1.96	2.15		ug/L		110	70 - 130
alpha-Chlordane	1.96	1.93		ug/L		98	70 - 130
Anthracene	1.96	2.10		ug/L		107	70 - 130
Atrazine	1.96	2.16		ug/L		110	70 - 130
Benz(a)anthracene	1.96	1.93		ug/L		98	70 - 130
Benzo[a]pyrene	1.96	1.96		ug/L		100	70 - 130
Benzo[b]fluoranthene	1.96	1.95		ug/L		99	70 - 130
Benzo[g,h,i]perylene	1.96	1.88		ug/L		96	70 - 130
Benzo[k]fluoranthene	1.96	2.18		ug/L		111	70 - 130
beta-BHC	1.96	2.23		ug/L		114	70 - 130
Bis(2-ethylhexyl) phthalate	1.96	2.21		ug/L		113	70 - 130
Bromacil	1.96	2.07		ug/L		105	70 - 130
Butachlor	1.96	2.26		ug/L		115	70 - 130
Butylbenzylphthalate	1.96	2.45		ug/L		125	70 - 130
Chlorobenzilate	1.96	2.34		ug/L		120	70 - 130
Chloroneb	1.96	1.99		ug/L		102	70 - 130
Chlorothalonil (Draconil, Bravo)	1.96	2.16		ug/L		110	70 - 130
Chlorpyrifos	1.96	2.33		ug/L		119	70 - 130
Chrysene	1.96	2.20		ug/L		112	70 - 130
delta-BHC	1.96	2.24		ug/L		114	70 - 130
Di(2-ethylhexyl)adipate	1.96	2.31		ug/L		118	70 - 130
Dibenz(a,h)anthracene	1.96	1.85		ug/L		94	70 - 130
Diclorvos (DDVP)	1.96	2.25		ug/L		115	70 - 130
Dieldrin	1.96	2.06		ug/L		105	70 - 130
Diethylphthalate	1.96	2.32		ug/L		118	70 - 130
Dimethylphthalate	1.96	2.24		ug/L		114	70 - 130
Di-n-butyl phthalate	3.92	4.53		ug/L		116	70 - 130
Di-n-octyl phthalate	1.96	2.24		ug/L		114	70 - 130
Endosulfan I (Alpha)	1.96	2.20		ug/L		112	70 - 130
Endosulfan II (Beta)	1.96	2.20		ug/L		112	70 - 130
Endosulfan sulfate	1.96	2.10		ug/L		107	70 - 130
Endrin	1.96	2.18		ug/L		111	70 - 130
Endrin aldehyde	1.96	1.72		ug/L		88	60 - 130
EPTC	1.96	2.25		ug/L		115	70 - 130
Fluoranthene	1.96	2.29		ug/L		116	70 - 130
Fluorene	1.96	2.12		ug/L		108	70 - 130
gamma-Chlordane	1.96	1.87		ug/L		95	70 - 130
Heptachlor	1.96	2.02		ug/L		103	70 - 130
Heptachlor epoxide (isomer B)	1.96	1.81		ug/L		92	70 - 130

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QC Sample Results

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

Job ID: 380-147387-1
SDG: Weekly

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

Lab Sample ID: LCS 380-149367/23-A

Matrix: Water

Analysis Batch: 149594

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 149367

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Hexachlorobenzene	1.96	1.75		ug/L		89	70 - 130
Hexachlorocyclopentadiene	1.96	1.93		ug/L		98	70 - 130
Indeno[1,2,3-cd]pyrene	1.96	1.92		ug/L		98	70 - 130
Isophorone	1.96	2.24		ug/L		114	70 - 130
Lindane	1.96	2.19		ug/L		111	70 - 130
Malathion	1.96	2.29		ug/L		117	70 - 130
Methoxychlor	1.96	2.25		ug/L		115	70 - 130
Metolachlor	1.96	2.25		ug/L		115	70 - 130
Molinate	1.96	2.26		ug/L		115	70 - 130
Naphthalene	1.96	1.94		ug/L		99	70 - 130
Parathion	1.96	2.64	+	ug/L		135	70 - 130
Pendimethalin (Penoxaline)	1.96	2.06		ug/L		105	70 - 130
Phenanthrene	1.96	1.98		ug/L		101	70 - 130
Propachlor	1.96	2.37		ug/L		121	70 - 130
Pyrene	1.96	2.39		ug/L		122	70 - 130
Simazine	1.96	2.09		ug/L		106	70 - 130
Terbacil	1.96	2.51		ug/L		128	70 - 130
Terbutylazine	1.96	2.23		ug/L		114	70 - 130
Thiobencarb	1.96	2.51		ug/L		128	70 - 130
trans-Nonachlor	1.96	1.83		ug/L		93	70 - 130
Trifluralin	1.96	1.77		ug/L		90	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Nitro-m-xylene	100		70 - 130
Perylene-d12	91		70 - 130
Triphenylphosphate	95		70 - 130

Lab Sample ID: MRL 380-149367/22-A

Matrix: Water

Analysis Batch: 149594

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 149367

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	0.0982	0.118		ug/L		120	50 - 150
2,4'-DDD	0.0982	0.0893	J	ug/L		91	50 - 150
2,4'-DDE	0.0982	0.109		ug/L		111	50 - 150
2,4'-DDT	0.0982	0.102		ug/L		104	50 - 150
2,4-Dinitrotoluene	0.0982	0.129		ug/L		131	50 - 150
2,6-Dinitrotoluene	0.0982	0.143		ug/L		146	50 - 150
2-Methylnaphthalene	0.0982	0.112		ug/L		114	50 - 150
4,4'-DDD	0.0982	0.108		ug/L		110	50 - 150
4,4'-DDE	0.0982	0.0909	J	ug/L		93	50 - 150
4,4'-DDT	0.0982	0.119		ug/L		121	50 - 150
Acenaphthene	0.0982	0.102		ug/L		104	50 - 150
Acenaphthylene	0.0982	0.104		ug/L		106	50 - 150
Acetochlor	0.0982	0.122		ug/L		124	50 - 150
Alachlor	0.0491	0.0578		ug/L		118	50 - 150
alpha-BHC	0.0982	0.111		ug/L		113	50 - 150
alpha-Chlordane	0.0245	<0.028		ug/L		98	50 - 150

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-147387-1
SDG: Weekly

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

Lab Sample ID: MRL 380-149367/22-A

Matrix: Water

Analysis Batch: 149594

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 149367

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Anthracene	0.0196	0.0222		ug/L		113	50 - 150
Atrazine	0.0491	0.0564		ug/L		115	50 - 150
Benz(a)anthracene	0.0491	0.0564		ug/L		115	50 - 150
Benzo[a]pyrene	0.0196	0.0245		ug/L		125	50 - 150
Benzo[b]fluoranthene	0.0196	0.0311	^3+	ug/L		158	50 - 150
Benzo[g,h,i]perylene	0.0491	0.0492		ug/L		100	50 - 150
Benzo[k]fluoranthene	0.0196	0.0224		ug/L		114	50 - 150
beta-BHC	0.0982	0.125		ug/L		128	50 - 150
Bis(2-ethylhexyl) phthalate	0.589	0.643		ug/L		109	50 - 150
Bromacil	0.0982	0.125		ug/L		128	50 - 150
Butachlor	0.0491	0.0667		ug/L		136	50 - 150
Butylbenzylphthalate	0.491	0.632		ug/L		129	50 - 150
Chlorobenzilate	0.0982	0.112		ug/L		115	50 - 150
Chloroneb	0.0982	0.111		ug/L		114	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0982	0.0923	J	ug/L		94	50 - 150
Chlorpyrifos	0.0491	0.0516		ug/L		105	50 - 150
Chrysene	0.0196	0.0239		ug/L		122	50 - 150
delta-BHC	0.0982	0.111		ug/L		113	50 - 150
Di(2-ethylhexyl)adipate	0.589	0.713		ug/L		121	50 - 150
Dibenz(a,h)anthracene	0.0491	0.0496		ug/L		101	50 - 150
Diclorvos (DDVP)	0.0491	0.0669		ug/L		136	50 - 150
Dieldrin	0.00982	0.0116		ug/L		118	50 - 150
Diethylphthalate	0.491	0.590		ug/L		120	50 - 150
Dimethylphthalate	0.491	0.570		ug/L		116	50 - 150
Di-n-butyl phthalate	0.491	0.738	J	ug/L		150	49 - 243
Di-n-octyl phthalate	0.0982	0.0982		ug/L		100	50 - 150
Endosulfan I (Alpha)	0.0982	0.0922	J	ug/L		94	50 - 150
Endosulfan II (Beta)	0.0982	0.110		ug/L		112	50 - 150
Endosulfan sulfate	0.0982	0.104		ug/L		106	50 - 150
Endrin	0.00982	0.0124		ug/L		127	50 - 150
Endrin aldehyde	0.0982	0.108		ug/L		110	50 - 150
EPTC	0.0982	0.106		ug/L		108	50 - 150
Fluoranthene	0.0982	0.109		ug/L		111	50 - 150
Fluorene	0.0491	0.0535		ug/L		109	50 - 150
gamma-Chlordane	0.0245	0.0253	J	ug/L		103	50 - 150
Heptachlor	0.00982	0.00961	J	ug/L		98	50 - 150
Heptachlor epoxide (isomer B)	0.00982	0.0116		ug/L		118	50 - 150
Hexachlorobenzene	0.0491	0.0481	J	ug/L		98	50 - 150
Hexachlorocyclopentadiene	0.0491	0.0456	J	ug/L		93	50 - 150
Indeno[1,2,3-cd]pyrene	0.0491	0.0481	J	ug/L		98	50 - 150
Isophorone	0.0982	0.141		ug/L		144	50 - 150
Lindane	0.00982	0.0133		ug/L		135	50 - 150
Malathion	0.0982	0.111		ug/L		113	50 - 150
Methoxychlor	0.0491	0.0625		ug/L		127	50 - 150
Metolachlor	0.0491	0.0612		ug/L		125	50 - 150
Molinate	0.0982	0.112		ug/L		114	50 - 150
Naphthalene	0.0982	0.107		ug/L		109	50 - 150
Parathion	0.0982	0.119		ug/L		121	50 - 150
Pendimethalin (Penoxaline)	0.0982	0.105		ug/L		106	50 - 150

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-147387-1
SDG: Weekly

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

Lab Sample ID: MRL 380-149367/22-A

Matrix: Water

Analysis Batch: 149594

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 149367

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Phenanthrene	0.0393	0.0461		ug/L		117	50 - 150
Propachlor	0.0491	0.0600		ug/L		122	50 - 150
Pyrene	0.0491	0.0579		ug/L		118	50 - 150
Simazine	0.0491	0.0560		ug/L		114	50 - 150
Terbacil	0.0982	0.130		ug/L		133	50 - 150
Terbutylazine	0.0982	0.109		ug/L		111	50 - 150
Thiobencarb	0.0982	0.121		ug/L		123	50 - 150
trans-Nonachlor	0.0245	0.0260	J	ug/L		106	50 - 150
Trifluralin	0.0982	0.105		ug/L		106	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
2-Nitro-m-xylene	101		70 - 130
Perylene-d12	87		70 - 130
Triphenylphosphate	91		70 - 130

Lab Sample ID: 380-146614-AQ-1-A MS

Matrix: Water

Analysis Batch: 149594

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 149367

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.098		1.96	2.00		ug/L		102	70 - 130
2,4'-DDD	<0.098		1.96	2.05		ug/L		105	70 - 130
2,4'-DDE	<0.098		1.96	1.99		ug/L		102	70 - 130
2,4'-DDT	<0.098		1.96	1.80		ug/L		92	70 - 130
2,4-Dinitrotoluene	<0.098		1.96	2.15		ug/L		110	70 - 130
2,6-Dinitrotoluene	<0.098		1.96	2.37		ug/L		121	70 - 130
2-Methylnaphthalene	<0.098		1.96	2.04		ug/L		104	70 - 130
4,4'-DDD	<0.098		1.96	2.01		ug/L		103	70 - 130
4,4'-DDE	<0.098		1.96	1.70		ug/L		87	70 - 130
4,4'-DDT	<0.098		1.96	1.89		ug/L		97	70 - 130
Acenaphthene	<0.098		1.96	2.13		ug/L		109	70 - 130
Acenaphthylene	<0.098		1.96	2.13		ug/L		109	70 - 130
Acetochlor	<0.098		1.96	2.38		ug/L		121	70 - 130
Alachlor	<0.049		1.96	2.41		ug/L		123	70 - 130
alpha-BHC	<0.098		1.96	2.15		ug/L		110	70 - 130
alpha-Chlordane	<0.049		1.96	1.88		ug/L		96	70 - 130
Anthracene	<0.020		1.96	2.09		ug/L		107	70 - 130
Atrazine	<0.049		1.96	2.20		ug/L		112	70 - 130
Benz(a)anthracene	<0.049		1.96	1.89		ug/L		97	70 - 130
Benzo[a]pyrene	<0.020		1.96	1.93		ug/L		99	70 - 130
Benzo[b]fluoranthene	<0.020	^3+	1.96	1.89		ug/L		97	70 - 130
Benzo[g,h,i]perylene	<0.049		1.96	1.68		ug/L		86	70 - 130
Benzo[k]fluoranthene	<0.020		1.96	2.06		ug/L		105	70 - 130
beta-BHC	<0.098		1.96	2.21		ug/L		113	70 - 130
Bis(2-ethylhexyl) phthalate	<0.59		1.96	1.78		ug/L		91	70 - 130
Bromacil	<0.098		1.96	2.03		ug/L		104	70 - 130
Butachlor	<0.049		1.96	2.25		ug/L		115	70 - 130
Butylbenzylphthalate	<0.49		1.96	2.49		ug/L		127	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-147387-1
SDG: Weekly

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

Lab Sample ID: 380-146614-AQ-1-A MS

Matrix: Water

Analysis Batch: 149594

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 149367

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chlorobenzilate	<0.098		1.96	2.33		ug/L		119	70 - 130
Chloroneb	<0.098		1.96	2.04		ug/L		104	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.098		1.96	2.12		ug/L		108	70 - 130
Chlorpyrifos	<0.049		1.96	2.30		ug/L		118	70 - 130
Chrysene	<0.020		1.96	2.18		ug/L		111	70 - 130
delta-BHC	<0.098		1.96	2.26		ug/L		115	70 - 130
Di(2-ethylhexyl)adipate	<0.59		1.96	1.96		ug/L		100	70 - 130
Dibenz(a,h)anthracene	<0.049		1.96	1.67		ug/L		85	70 - 130
Diclorvos (DDVP)	<0.049		1.96	2.28		ug/L		116	70 - 130
Dieldrin	<0.0098		1.96	2.01		ug/L		103	70 - 130
Diethylphthalate	<0.49		1.96	2.33		ug/L		119	70 - 130
Dimethylphthalate	<0.49		1.96	2.25		ug/L		115	70 - 130
Di-n-butyl phthalate	<0.98		3.91	4.59		ug/L		112	70 - 130
Di-n-octyl phthalate	<0.098		1.96	1.70		ug/L		87	70 - 130
Endosulfan I (Alpha)	<0.098		1.96	2.10		ug/L		107	70 - 130
Endosulfan II (Beta)	<0.098		1.96	2.16		ug/L		111	70 - 130
Endosulfan sulfate	<0.098		1.96	2.10		ug/L		107	70 - 130
Endrin	<0.0098		1.96	2.14		ug/L		109	70 - 130
Endrin aldehyde	<0.098		1.96	1.70		ug/L		87	60 - 130
EPTC	<0.098		1.96	2.30		ug/L		117	70 - 130
Fluoranthene	<0.098		1.96	2.26		ug/L		115	70 - 130
Fluorene	<0.049		1.96	2.13		ug/L		109	70 - 130
gamma-Chlordane	<0.049		1.96	1.79		ug/L		92	70 - 130
Heptachlor	<0.0098		1.96	1.96		ug/L		100	70 - 130
Heptachlor epoxide (isomer B)	<0.0098		1.96	1.81		ug/L		93	70 - 130
Hexachlorobenzene	<0.049		1.96	1.74		ug/L		89	70 - 130
Hexachlorocyclopentadiene	<0.049		1.96	2.02		ug/L		103	70 - 130
Indeno[1,2,3-cd]pyrene	<0.049		1.96	1.75		ug/L		89	70 - 130
Isophorone	<0.098		1.96	2.20		ug/L		113	70 - 130
Lindane	<0.0098		1.96	2.17		ug/L		111	70 - 130
Malathion	<0.098		1.96	2.28		ug/L		117	70 - 130
Methoxychlor	<0.049		1.96	2.32		ug/L		119	70 - 130
Metolachlor	<0.049		1.96	2.21		ug/L		113	70 - 130
Molinate	<0.098		1.96	2.30		ug/L		118	70 - 130
Naphthalene	<0.098		1.96	1.97		ug/L		101	70 - 130
Parathion	<0.098	F1 *+	1.96	2.62	F1	ug/L		134	70 - 130
Pendimethalin (Penoxaline)	<0.098		1.96	2.06		ug/L		105	70 - 130
Phenanthrene	<0.039		1.96	1.97		ug/L		101	70 - 130
Propachlor	<0.049		1.96	2.38		ug/L		121	70 - 130
Pyrene	<0.049		1.96	2.34		ug/L		120	70 - 130
Simazine	<0.049		1.96	2.08		ug/L		106	70 - 130
Terbacil	<0.098	F1	1.96	2.49		ug/L		127	70 - 130
Terbutylazine	<0.098		1.96	2.28		ug/L		116	70 - 130
Thiobencarb	<0.098		1.96	2.51		ug/L		128	70 - 130
trans-Nonachlor	<0.049		1.96	1.75		ug/L		89	70 - 130
Trifluralin	<0.098		1.96	1.78		ug/L		91	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-147387-1
SDG: Weekly

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

Lab Sample ID: 380-146614-AQ-1-A MS

Matrix: Water

Analysis Batch: 149594

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 149367

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Nitro-m-xylene	102		70 - 130
Perylene-d12	91		70 - 130
Triphenylphosphate	95		70 - 130

Lab Sample ID: 380-146614-AR-1-A MSD

Matrix: Water

Analysis Batch: 149594

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 149367

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	<0.098		1.95	1.98		ug/L		101	70 - 130	1	20
2,4'-DDD	<0.098		1.95	2.05		ug/L		105	70 - 130	0	20
2,4'-DDE	<0.098		1.95	1.95		ug/L		100	70 - 130	2	20
2,4'-DDT	<0.098		1.95	1.76		ug/L		90	70 - 130	3	20
2,4-Dinitrotoluene	<0.098		1.95	2.16		ug/L		111	70 - 130	0	20
2,6-Dinitrotoluene	<0.098		1.95	2.37		ug/L		121	70 - 130	0	20
2-Methylnaphthalene	<0.098		1.95	2.01		ug/L		103	70 - 130	1	20
4,4'-DDD	<0.098		1.95	2.02		ug/L		104	70 - 130	0	20
4,4'-DDE	<0.098		1.95	1.63		ug/L		84	70 - 130	4	20
4,4'-DDT	<0.098		1.95	1.79		ug/L		92	70 - 130	5	20
Acenaphthene	<0.098		1.95	2.10		ug/L		108	70 - 130	2	20
Acenaphthylene	<0.098		1.95	2.10		ug/L		108	70 - 130	1	20
Acetochlor	<0.098		1.95	2.39		ug/L		123	70 - 130	1	20
Alachlor	<0.049		1.95	2.43		ug/L		125	70 - 130	1	20
alpha-BHC	<0.098		1.95	2.13		ug/L		109	70 - 130	1	20
alpha-Chlordane	<0.049		1.95	1.87		ug/L		96	70 - 130	1	20
Anthracene	<0.020		1.95	2.05		ug/L		105	70 - 130	2	20
Atrazine	<0.049		1.95	2.15		ug/L		110	70 - 130	2	20
Benz(a)anthracene	<0.049		1.95	1.83		ug/L		94	70 - 130	3	20
Benzo[a]pyrene	<0.020		1.95	1.89		ug/L		97	70 - 130	2	20
Benzo[b]fluoranthene	<0.020	^3+	1.95	1.89		ug/L		97	70 - 130	0	20
Benzo[g,h,i]perylene	<0.049		1.95	1.65		ug/L		85	70 - 130	2	20
Benzo[k]fluoranthene	<0.020		1.95	2.03		ug/L		104	70 - 130	1	20
beta-BHC	<0.098		1.95	2.23		ug/L		114	70 - 130	1	20
Bis(2-ethylhexyl) phthalate	<0.59		1.95	1.60		ug/L		82	70 - 130	11	20
Bromacil	<0.098		1.95	2.09		ug/L		107	70 - 130	3	20
Butachlor	<0.049		1.95	2.28		ug/L		117	70 - 130	1	20
Butylbenzylphthalate	<0.49		1.95	2.42		ug/L		124	70 - 130	3	20
Chlorobenzilate	<0.098		1.95	2.36		ug/L		121	70 - 130	1	20
Chloroneb	<0.098		1.95	2.00		ug/L		102	70 - 130	2	20
Chlorothalonil (Draconil, Bravo)	<0.098		1.95	2.14		ug/L		110	70 - 130	1	20
Chlorpyrifos	<0.049		1.95	2.30		ug/L		118	70 - 130	0	20
Chrysene	<0.020		1.95	2.21		ug/L		114	70 - 130	2	20
delta-BHC	<0.098		1.95	2.24		ug/L		115	70 - 130	1	20
Di(2-ethylhexyl)adipate	<0.59		1.95	1.73		ug/L		89	70 - 130	12	20
Dibenz(a,h)anthracene	<0.049		1.95	1.55		ug/L		80	70 - 130	7	20
Diclorvos (DDVP)	<0.049		1.95	2.26		ug/L		116	70 - 130	1	20
Dieldrin	<0.0098		1.95	2.05		ug/L		105	70 - 130	2	20
Diethylphthalate	<0.49		1.95	2.28		ug/L		117	70 - 130	2	20

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-147387-1
SDG: Weekly

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

Lab Sample ID: 380-146614-AR-1-A MSD

Matrix: Water

Analysis Batch: 149594

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 149367

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Dimethylphthalate	<0.49		1.95	2.23		ug/L		114	70 - 130	1	20
Di-n-butyl phthalate	<0.98		3.90	4.56		ug/L		112	70 - 130	1	20
Di-n-octyl phthalate	<0.098		1.95	1.49		ug/L		77	70 - 130	13	20
Endosulfan I (Alpha)	<0.098		1.95	2.13		ug/L		109	70 - 130	2	20
Endosulfan II (Beta)	<0.098		1.95	2.19		ug/L		113	70 - 130	1	20
Endosulfan sulfate	<0.098		1.95	2.12		ug/L		109	70 - 130	1	20
Endrin	<0.0098		1.95	2.15		ug/L		110	70 - 130	0	20
Endrin aldehyde	<0.098		1.95	1.68		ug/L		86	60 - 130	1	20
EPTC	<0.098		1.95	2.28		ug/L		117	70 - 130	1	20
Fluoranthene	<0.098		1.95	2.23		ug/L		114	70 - 130	1	20
Fluorene	<0.049		1.95	2.09		ug/L		107	70 - 130	2	20
gamma-Chlordane	<0.049		1.95	1.78		ug/L		91	70 - 130	1	20
Heptachlor	<0.0098		1.95	1.95		ug/L		100	70 - 130	1	20
Heptachlor epoxide (isomer B)	<0.0098		1.95	1.80		ug/L		93	70 - 130	0	20
Hexachlorobenzene	<0.049		1.95	1.68		ug/L		86	70 - 130	3	20
Hexachlorocyclopentadiene	<0.049		1.95	1.91		ug/L		98	70 - 130	5	20
Indeno[1,2,3-cd]pyrene	<0.049		1.95	1.65		ug/L		85	70 - 130	6	20
Isophorone	<0.098		1.95	2.25		ug/L		115	70 - 130	2	20
Lindane	<0.0098		1.95	2.17		ug/L		111	70 - 130	0	20
Malathion	<0.098		1.95	2.28		ug/L		117	70 - 130	0	20
Methoxychlor	<0.049		1.95	2.39		ug/L		123	70 - 130	3	20
Metolachlor	<0.049		1.95	2.28		ug/L		117	70 - 130	3	20
Molinate	<0.098		1.95	2.26		ug/L		116	70 - 130	2	20
Naphthalene	<0.098		1.95	1.96		ug/L		101	70 - 130	1	20
Parathion	<0.098	F1 *+	1.95	2.62	F1	ug/L		134	70 - 130	0	20
Pendimethalin (Penoxaline)	<0.098		1.95	2.03		ug/L		104	70 - 130	2	20
Phenanthrene	<0.039		1.95	1.95		ug/L		100	70 - 130	1	20
Propachlor	<0.049		1.95	2.37		ug/L		122	70 - 130	0	20
Pyrene	<0.049		1.95	2.32		ug/L		119	70 - 130	1	20
Simazine	<0.049		1.95	2.05		ug/L		105	70 - 130	1	20
Terbacil	<0.098	F1	1.95	2.61	F1	ug/L		134	70 - 130	5	20
Terbutylazine	<0.098		1.95	2.25		ug/L		115	70 - 130	1	20
Thiobencarb	<0.098		1.95	2.48		ug/L		127	70 - 130	1	20
trans-Nonachlor	<0.049		1.95	1.73		ug/L		89	70 - 130	1	20
Trifluralin	<0.098		1.95	1.74		ug/L		89	70 - 130	2	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Nitro-m-xylene	101		70 - 130
Perylene-d12	89		70 - 130
Triphenylphosphate	94		70 - 130

QC Sample Results

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

Job ID: 380-147387-1
SDG: Weekly

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

Lab Sample ID: MB 570-563059/1-A
Matrix: Water
Analysis Batch: 567853

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 563059

<i>Tentatively Identified Compound</i>	<i>Est. Result</i>	<i>MB MB Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>RT</i>	<i>CAS No.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Tentatively Identified Compound</i>	<i>None</i>		<i>ug/L</i>			<i>N/A</i>	<i>04/25/25 16:28</i>	<i>05/07/25 12:20</i>	<i>1</i>
<i>Surrogate</i>	<i>%Recovery</i>	<i>MB MB Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
2,4,6-Tribromophenol (Surr)	78		33 - 139				04/25/25 16:28	05/07/25 12:20	1
2-Fluorobiphenyl (Surr)	81		33 - 126				04/25/25 16:28	05/07/25 12:20	1
2-Fluorophenol (Surr)	47		12 - 120				04/25/25 16:28	05/07/25 12:20	1
Nitrobenzene-d5 (Surr)	105		36 - 120				04/25/25 16:28	05/07/25 12:20	1
Phenol-d6 (Surr)	33		10 - 120				04/25/25 16:28	05/07/25 12:20	1
p-Terphenyl-d14 (Surr)	85		47 - 131				04/25/25 16:28	05/07/25 12:20	1

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

Lab Sample ID: MB 570-563681/6
Matrix: Water
Analysis Batch: 563681

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

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

Lab Sample ID: LCS 570-563681/4
Matrix: Water
Analysis Batch: 563681

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

<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>	
Gasoline Range Organics (C4-C13)	400	371		ug/L		93	78 - 120	
<i>Surrogate</i>	<i>%Recovery</i>	<i>LCS LCS Qualifier</i>	<i>Limits</i>					
4-Bromofluorobenzene (Surr)	89		38 - 134					

Lab Sample ID: LCSD 570-563681/5
Matrix: Water
Analysis Batch: 563681

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

<i>Analyte</i>	<i>Spike Added</i>	<i>LCSD Result</i>	<i>LCSD 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)	400	379		ug/L		95	78 - 120	2	10
<i>Surrogate</i>	<i>%Recovery</i>	<i>LCSD LCSD Qualifier</i>	<i>Limits</i>						
4-Bromofluorobenzene (Surr)	87		38 - 134						

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-147387-1
SDG: Weekly

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

Lab Sample ID: MRL 570-563681/3

Matrix: Water

Analysis Batch: 563681

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

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

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

Matrix: Water

Analysis Batch: 563681

Client Sample ID: Matrix Spike

Prep Type: Total/NA

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

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

Matrix: Water

Analysis Batch: 563681

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

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

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

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

Matrix: Water

Analysis Batch: 567004

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 563894

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

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

Matrix: Water

Analysis Batch: 567004

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 563894

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
C10-C28	1600	1610		ug/L		101	56 - 127

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-147387-1
SDG: Weekly

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

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

Matrix: Water

Analysis Batch: 567004

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 563894

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
n-Octacosane (Surr)	120		60 - 130

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

Matrix: Water

Analysis Batch: 567004

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 563894

Rep Data: 08/06/24										
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD RPD Limits
C10-C28			1600	1640		ug/L		102	56 - 127	2 23

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

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

Matrix: Water

Analysis Batch: 567004

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 563894

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

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

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

Matrix: Water

Analysis Batch: 567004

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 563894

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

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

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

Matrix: Water

Analysis Batch: 567004

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 563894

Rep Data: 000001											
	Sample	Sample	Spike	MSD	MSD				%Rec	RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
C10-C28	<26	^3+	1610	1470		ua/L		91	70 - 130	13	20

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

QC Association Summary

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

Job ID: 380-147387-1
SDG: Weekly

GC/MS Semi VOA

Prep Batch: 149367

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-147387-1	Halawa Shaft Viewing Pool	Total/NA	Water	525.2	
MB 380-149367/21-A	Method Blank	Total/NA	Water	525.2	
LCS 380-149367/23-A	Lab Control Sample	Total/NA	Water	525.2	
MRL 380-149367/22-A	Lab Control Sample	Total/NA	Water	525.2	
380-146614-AQ-1-A MS	Matrix Spike	Total/NA	Water	525.2	
380-146614-AR-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	525.2	

Analysis Batch: 149594

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-147387-1	Halawa Shaft Viewing Pool	Total/NA	Water	525.2	149367
MB 380-149367/21-A	Method Blank	Total/NA	Water	525.2	149367
LCS 380-149367/23-A	Lab Control Sample	Total/NA	Water	525.2	149367
MRL 380-149367/22-A	Lab Control Sample	Total/NA	Water	525.2	149367
380-146614-AQ-1-A MS	Matrix Spike	Total/NA	Water	525.2	149367
380-146614-AR-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	525.2	149367

Prep Batch: 563059

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-147387-1	Halawa Shaft Viewing Pool	Total/NA	Water	625.1	
MB 570-563059/1-A	Method Blank	Total/NA	Water	625.1	

Analysis Batch: 567829

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-147387-1	Halawa Shaft Viewing Pool	Total/NA	Water	625.1 SIM	563059

Analysis Batch: 567853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-147387-1	Halawa Shaft Viewing Pool	Total/NA	Water	625.1	563059
MB 570-563059/1-A	Method Blank	Total/NA	Water	625.1	563059

GC VOA

Analysis Batch: 563681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-147387-1	Halawa Shaft Viewing Pool	Total/NA	Water	8015B GRO LL	
380-147387-2	TRIP BLANK	Total/NA	Water	8015B GRO LL	
MB 570-563681/6	Method Blank	Total/NA	Water	8015B GRO LL	
LCS 570-563681/4	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-563681/5	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	
MRL 570-563681/3	Lab Control Sample	Total/NA	Water	8015B GRO LL	
380-147415-B-3 MS	Matrix Spike	Total/NA	Water	8015B GRO LL	
380-147415-B-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8015B GRO LL	

GC Semi VOA

Prep Batch: 563894

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-147387-1	Halawa Shaft Viewing Pool	Total/NA	Water	3510C	
MB 570-563894/1-B	Method Blank	Total/NA	Water	3510C	
LCS 570-563894/2-B	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-563894/3-B	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-563894/4-B	Lab Control Sample	Total/NA	Water	3510C	

Eurofins Eaton Analytical Pomona

QC Association Summary

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

Job ID: 380-147387-1
SDG: Weekly

GC Semi VOA (Continued)

Prep Batch: 563894 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-147415-C-3-C MS	Matrix Spike	Total/NA	Water	3510C	
380-147415-C-3-D MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

Analysis Batch: 567004

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-147387-1	Halawa Shaft Viewing Pool	Total/NA	Water	8015B	563894
MB 570-563894/1-B	Method Blank	Total/NA	Water	8015B	563894
LCS 570-563894/2-B	Lab Control Sample	Total/NA	Water	8015B	563894
LCSD 570-563894/3-B	Lab Control Sample Dup	Total/NA	Water	8015B	563894
MRL 570-563894/4-B	Lab Control Sample	Total/NA	Water	8015B	563894
380-147415-C-3-C MS	Matrix Spike	Total/NA	Water	8015B	563894
380-147415-C-3-D MSD	Matrix Spike Duplicate	Total/NA	Water	8015B	563894

Lab Chronicle

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

Job ID: 380-147387-1
SDG: Weekly

Client Sample ID: Halawa Shaft Viewing Pool

Lab Sample ID: 380-147387-1

Date Collected: 04/22/25 09:30

Matrix: Water

Date Received: 04/24/25 09:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			149367	IQ42	EA POM	04/25/25 13:35
Total/NA	Analysis	525.2		1	149594	Q8LA	EA POM	04/28/25 18:58
Total/NA	Prep	625.1			563059	UD4J	EET CAL 4	04/25/25 16:28
Total/NA	Analysis	625.1		1	567853	J7WE	EET CAL 4	05/07/25 12:43
Total/NA	Prep	625.1			563059	UD4J	EET CAL 4	04/25/25 16:28
Total/NA	Analysis	625.1 SIM		1	567829	PQS1	EET CAL 4	05/07/25 11:57
Total/NA	Analysis	8015B GRO LL		1	563681	A9VE	EET CAL 4	04/28/25 21:31
Total/NA	Prep	3510C			563894	TVD6	EET CAL 4	04/28/25 14:57
Total/NA	Analysis	8015B		1	567004	NR	EET CAL 4	05/05/25 21:46

Client Sample ID: TRIP BLANK

Lab Sample ID: 380-147387-2

Date Collected: 04/22/25 09:30

Matrix: Water

Date Received: 04/24/25 09:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	563681	A9VE	EET CAL 4	04/28/25 17:59

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: 380-147387-1
SDG: Weekly

Laboratory: Eurofins Eaton Analytical Pomona

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

Authority	Program	Identification Number	Expiration Date
Hawaii	State	CA00006	01-31-26
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
525.2	525.2	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
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
A2LA	Dept. of Defense ELAP	7296.01	11-30-26
Arizona	State	AZ0830	11-16-25
Arkansas DEQ	State	88-01672	07-02-25
California	Los Angeles County Sanitation Districts	9257304	07-31-26
California	SCAQMD LAP	17LA0919	11-30-25
California	State	3082	07-31-25

Eurofins Eaton Analytical Pomona

Accreditation/Certification Summary

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

Job ID: 380-147387-1
SDG: Weekly

Laboratory: Eurofins Calscience (Continued)

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

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

Method Summary

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

Job ID: 380-147387-1
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: 380-147387-1
SDG: Weekly

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
380-147387-1	Halawa Shaft Viewing Pool	Water	04/22/25 09:30	04/24/25 09:34
380-147387-2	TRIP BLANK	Water	04/22/25 09:30	04/24/25 09:34

- 1
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- 14
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- 16

[illegible]

Eurofins Eaton Analytical Pomona

941 Corporate Center Drive
Pomona CA 91768-2642
Phone (626) 386-1100

Chain of Custody Record

Client Information Client Contact: Dr. Ron Fenstermacher Phone: 808-748-5840 E-Mail: Rachel.Arada@eurofins.com		Lab PM: Arada, Rachelle State of Origin:		Carrier Tracking No(s): COC No: 380-28005-2757 1	
Company: City & County of Honolulu Address: 630 South Beretania Street Chemistry Lab City: Honolulu State Zip: HI 96843 Phone: 808-748-5091 (Tel) Email: RFENSTERMACHER@hbw.org		PWSID: Due Date Requested: TAT Requested (days): Compliance Project: ☐ Yes ☒ No PO #: C20525101 exp 05312023 WO #: Project #: 38001111 Project Name: RED-HILL-HBWS Sites Event Desc: RUSH Weekly Red Hill Site: Hawaii		Page: Page 1 of 1 Job #:	
Analysis Requested		Preservation Codes: R - Na ₂ ThioSO ₄ RA - Na ₂ ThioHCl Q - Na ₂ SO ₃ QA - Na ₂ SO ₃ /HCl Y - Trizma I - NH ₄ Acetate			
Total Number of Containers		Other:			
Special Instructions/Note		380-147387 COC			
Sample Identification		Sample Date: 4/22/25 Sample Time: 0930 Sample Type: (C=Comp, G=grab) G Matrix: (W=Water, S=Soil, O=Organic, A=Air) Water			
Halawa Shaft Viewing Pool		Field Filled Sample (Yes or No) ☒ Yes ☐ No Perform MS/MSD (Yes or No) ☒ Yes ☐ No 626.1, 625.1, SIM 8015B_GRO_LL - (MOD) GRO 8015B_GRO_LL_CS - HNL Ranges C10-C24/C24-C36/C8-C18 525.2_PREC - (MOD) 525plus Plus TICs 537.1_DW_PREC 537.1 Full List 633 All Analytes			
TRIP BLANK		2			
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months			
Deliverable Requested I II III IV Other (specify)		Special Instructions/QC Requirements:			
Empty Kit Relinquished by		Date: 4/23/25 1200 Company:			
Relinquished by		Date/Time: 04/24/25 09:34 Company: EEP			
Relinquished by		Date/Time:			
Relinquished by		Date/Time:			
Custody Seals Intact: ☐ Yes ☐ No		Custody Seal No			

Loc: 380
Er **147387**



[illegible]

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-147387-1

SDG Number: Weekly

Login Number: 147387

List Source: Eurofins Eaton Analytical Pomona

List Number: 1

Creator: Hernandez, Orlando

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

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-147387-1

SDG Number: Weekly

Login Number: 147387

List Number: 2

Creator: Khana, Piyush

List Source: Eurofins Calscience

List Creation: 04/24/25 06:17 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.5
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	