

ANALYTICAL REPORT

PREPARED FOR

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JOB DESCRIPTION

RED-HILL
Weekly

JOB NUMBER

380-153989-1

Eurofins Eaton Analytical Pomona

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Eaton Analytical, LLC Project Manager.

Compliance Statement

1. Laboratory is accredited in accordance with TNI 2016 Standards and ISO/IEC 17025:2017.
2. Laboratory certifies that the test results meet all TNI 2016 and ISO/IEC 17025:2017 requirements unless noted under the individual analysis
3. Test results relate only to the sample(s) tested.
4. This report shall not be reproduced except in full, without the written approval of the laboratory.
5. Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.
(DW, Water matrices)

Authorization



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Definitions/Glossary

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

Job ID: 380-153989-1
SDG: Weekly

Qualifiers

GC/MS Semi VOA

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

GC/MS Semi VOA TICs

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

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.

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: 380-153989-1

Job ID: 380-153989-1

Eurofins Eaton Analytical Pomona

Job Narrative 380-153989-1

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 6/5/2025 9:34 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.8°C.

GC/MS Semi VOA

Method 625.1: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 570-581308. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch. 625 S.I.M

Method 625.1_SIM: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 570-581308. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch. 625 S.I.M

Method 525.2_PREC: Monitoring IS (Terphenyl-d14) recovery for the following sample in analytical batch 380-156825 was above acceptance criteria: HALAWA SHAFT VIEWING POOL (380-153989-1). This ISTD does not correspond to any of the requested target compounds reported from this analytical batch; therefore, the data have been reported.

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

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.

Eurofins Eaton Analytical Pomona

Detection Summary

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

Job ID: 380-153989-1
SDG: Weekly

Client Sample ID: HALAWA SHAFT VIEWING POOL Lab Sample ID: 380-153989-1

No Detections.

Client Sample ID: TRIP BLANK Lab Sample ID: 380-153989-2

No Detections.

1
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This Detection Summary does not include radiochemical test results.

Client Sample Results

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

Job ID: 380-153989-1
SDG: Weekly

Client Sample ID: HALAWA SHAFT VIEWING POOL

Lab Sample ID: 380-153989-1

Date Collected: 06/03/25 10:00

Matrix: Water

Date Received: 06/05/25 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		06/09/25 07:08	06/09/25 22:06	1
2,4'-DDD	<0.10		0.10	ug/L		06/09/25 07:08	06/09/25 22:06	1
2,4'-DDE	<0.10		0.10	ug/L		06/09/25 07:08	06/09/25 22:06	1
2,4'-DDT	<0.10		0.10	ug/L		06/09/25 07:08	06/09/25 22:06	1
2,4-Dinitrotoluene	<0.10		0.10	ug/L		06/09/25 07:08	06/09/25 22:06	1
2,6-Dinitrotoluene	<0.10		0.10	ug/L		06/09/25 07:08	06/09/25 22:06	1
2-Methylnaphthalene	<0.10		0.10	ug/L		06/09/25 07:08	06/09/25 22:06	1
4,4'-DDD	<0.10		0.10	ug/L		06/09/25 07:08	06/09/25 22:06	1
4,4'-DDE	<0.10		0.10	ug/L		06/09/25 07:08	06/09/25 22:06	1
4,4'-DDT	<0.10		0.10	ug/L		06/09/25 07:08	06/09/25 22:06	1
Acenaphthene	<0.10		0.10	ug/L		06/09/25 07:08	06/09/25 22:06	1
Acenaphthylene	<0.10		0.10	ug/L		06/09/25 07:08	06/09/25 22:06	1
Acetochlor	<0.10		0.10	ug/L		06/09/25 07:08	06/09/25 22:06	1
Alachlor	<0.050		0.050	ug/L		06/09/25 07:08	06/09/25 22:06	1
alpha-BHC	<0.10		0.10	ug/L		06/09/25 07:08	06/09/25 22:06	1
alpha-Chlordane	<0.050		0.050	ug/L		06/09/25 07:08	06/09/25 22:06	1
Anthracene	<0.020		0.020	ug/L		06/09/25 07:08	06/09/25 22:06	1
Atrazine	<0.050		0.050	ug/L		06/09/25 07:08	06/09/25 22:06	1
Benz(a)anthracene	<0.050		0.050	ug/L		06/09/25 07:08	06/09/25 22:06	1
Benzo[a]pyrene	<0.020		0.020	ug/L		06/09/25 07:08	06/09/25 22:06	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		06/09/25 07:08	06/09/25 22:06	1
Benzo[g,h,i]perylene	<0.050		0.050	ug/L		06/09/25 07:08	06/09/25 22:06	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		06/09/25 07:08	06/09/25 22:06	1
beta-BHC	<0.10		0.10	ug/L		06/09/25 07:08	06/09/25 22:06	1
Bis(2-ethylhexyl) phthalate	<0.60		0.60	ug/L		06/09/25 07:08	06/09/25 22:06	1
Bromacil	<0.10		0.10	ug/L		06/09/25 07:08	06/09/25 22:06	1
Butachlor	<0.050		0.050	ug/L		06/09/25 07:08	06/09/25 22:06	1
Butylbenzylphthalate	<0.50		0.50	ug/L		06/09/25 07:08	06/09/25 22:06	1
Chlorobenzilate	<0.10		0.10	ug/L		06/09/25 07:08	06/09/25 22:06	1
Chloroneb	<0.10		0.10	ug/L		06/09/25 07:08	06/09/25 22:06	1
Chlorothalonil (Draconil, Bravo)	<0.10		0.10	ug/L		06/09/25 07:08	06/09/25 22:06	1
Chlorpyrifos	<0.050		0.050	ug/L		06/09/25 07:08	06/09/25 22:06	1
Chrysene	<0.020		0.020	ug/L		06/09/25 07:08	06/09/25 22:06	1
delta-BHC	<0.10		0.10	ug/L		06/09/25 07:08	06/09/25 22:06	1
Di(2-ethylhexyl)adipate	<0.60		0.60	ug/L		06/09/25 07:08	06/09/25 22:06	1
Dibenz(a,h)anthracene	<0.050		0.050	ug/L		06/09/25 07:08	06/09/25 22:06	1
Diclorvos (DDVP)	<0.050		0.050	ug/L		06/09/25 07:08	06/09/25 22:06	1
Dieldrin	<0.010		0.010	ug/L		06/09/25 07:08	06/09/25 22:06	1
Diethylphthalate	<0.50		0.50	ug/L		06/09/25 07:08	06/09/25 22:06	1
Dimethylphthalate	<0.50		0.50	ug/L		06/09/25 07:08	06/09/25 22:06	1
Di-n-butyl phthalate	<1.0		1.0	ug/L		06/09/25 07:08	06/09/25 22:06	1
Di-n-octyl phthalate	<0.10		0.10	ug/L		06/09/25 07:08	06/09/25 22:06	1
Endosulfan I (Alpha)	<0.10		0.10	ug/L		06/09/25 07:08	06/09/25 22:06	1
Endosulfan II (Beta)	<0.10		0.10	ug/L		06/09/25 07:08	06/09/25 22:06	1
Endosulfan sulfate	<0.10		0.10	ug/L		06/09/25 07:08	06/09/25 22:06	1
Endrin	<0.010		0.010	ug/L		06/09/25 07:08	06/09/25 22:06	1
Endrin aldehyde	<0.10		0.10	ug/L		06/09/25 07:08	06/09/25 22:06	1
EPTC	<0.10		0.10	ug/L		06/09/25 07:08	06/09/25 22:06	1
Fluoranthene	<0.10		0.10	ug/L		06/09/25 07:08	06/09/25 22:06	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-153989-1
SDG: Weekly

Client Sample ID: HALAWA SHAFT VIEWING POOL

Lab Sample ID: 380-153989-1

Date Collected: 06/03/25 10:00

Matrix: Water

Date Received: 06/05/25 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		06/09/25 07:08	06/09/25 22:06	1
gamma-Chlordane	<0.050		0.050	ug/L		06/09/25 07:08	06/09/25 22:06	1
Heptachlor	<0.010		0.010	ug/L		06/09/25 07:08	06/09/25 22:06	1
Heptachlor epoxide (isomer B)	<0.010		0.010	ug/L		06/09/25 07:08	06/09/25 22:06	1
Hexachlorobenzene	<0.050		0.050	ug/L		06/09/25 07:08	06/09/25 22:06	1
Hexachlorocyclopentadiene	<0.050		0.050	ug/L		06/09/25 07:08	06/09/25 22:06	1
Indeno[1,2,3-cd]pyrene	<0.050		0.050	ug/L		06/09/25 07:08	06/09/25 22:06	1
Isophorone	<0.10		0.10	ug/L		06/09/25 07:08	06/09/25 22:06	1
Lindane	<0.010		0.010	ug/L		06/09/25 07:08	06/09/25 22:06	1
Malathion	<0.10		0.10	ug/L		06/09/25 07:08	06/09/25 22:06	1
Methoxychlor	<0.050		0.050	ug/L		06/09/25 07:08	06/09/25 22:06	1
Metolachlor	<0.050		0.050	ug/L		06/09/25 07:08	06/09/25 22:06	1
Molinate	<0.10		0.10	ug/L		06/09/25 07:08	06/09/25 22:06	1
Naphthalene	<0.10		0.10	ug/L		06/09/25 07:08	06/09/25 22:06	1
Parathion	<0.10		0.10	ug/L		06/09/25 07:08	06/09/25 22:06	1
Pendimethalin (Penoxaline)	<0.10		0.10	ug/L		06/09/25 07:08	06/09/25 22:06	1
Phenanthrene	<0.040		0.040	ug/L		06/09/25 07:08	06/09/25 22:06	1
Propachlor	<0.050		0.050	ug/L		06/09/25 07:08	06/09/25 22:06	1
Pyrene	<0.050		0.050	ug/L		06/09/25 07:08	06/09/25 22:06	1
Simazine	<0.050		0.050	ug/L		06/09/25 07:08	06/09/25 22:06	1
Terbacil	<0.10		0.10	ug/L		06/09/25 07:08	06/09/25 22:06	1
Terbutylazine	<0.10		0.10	ug/L		06/09/25 07:08	06/09/25 22:06	1
Thiobencarb	<0.10		0.10	ug/L		06/09/25 07:08	06/09/25 22:06	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		06/09/25 07:08	06/09/25 22:06	1
trans-Nonachlor	<0.050		0.050	ug/L		06/09/25 07:08	06/09/25 22:06	1
Trifluralin	<0.10		0.10	ug/L		06/09/25 07:08	06/09/25 22:06	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	06/09/25 07:08	06/09/25 22:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	97		70 - 130	06/09/25 07:08	06/09/25 22:06	1
Perylene-d12	95		70 - 130	06/09/25 07:08	06/09/25 22:06	1
Triphenylphosphate	112		70 - 130	06/09/25 07:08	06/09/25 22:06	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.20		0.20	ug/L		06/09/25 08:10	06/12/25 23:59	1
2-Methylnaphthalene	<0.20		0.20	ug/L		06/09/25 08:10	06/12/25 23:59	1
Acenaphthene	<0.20		0.20	ug/L		06/09/25 08:10	06/12/25 23:59	1
Acenaphthylene	<0.20		0.20	ug/L		06/09/25 08:10	06/12/25 23:59	1
Anthracene	<0.20		0.20	ug/L		06/09/25 08:10	06/12/25 23:59	1
Benzo[a]anthracene	<0.20		0.20	ug/L		06/09/25 08:10	06/12/25 23:59	1
Benzo[a]pyrene	<0.20		0.20	ug/L		06/09/25 08:10	06/12/25 23:59	1
Benzo[b]fluoranthene	<0.20		0.20	ug/L		06/09/25 08:10	06/12/25 23:59	1
Benzo[g,h,i]perylene	<0.20		0.20	ug/L		06/09/25 08:10	06/12/25 23:59	1
Benzo[k]fluoranthene	<0.20		0.20	ug/L		06/09/25 08:10	06/12/25 23:59	1
Chrysene	<0.20		0.20	ug/L		06/09/25 08:10	06/12/25 23:59	1
Dibenz(a,h)anthracene	<0.20		0.20	ug/L		06/09/25 08:10	06/12/25 23:59	1
Fluoranthene	<0.20		0.20	ug/L		06/09/25 08:10	06/12/25 23:59	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-153989-1
SDG: Weekly

Client Sample ID: HALAWA SHAFT VIEWING POOL

Lab Sample ID: 380-153989-1

Date Collected: 06/03/25 10:00

Matrix: Water

Date Received: 06/05/25 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	<0.20		0.20	ug/L		06/09/25 08:10	06/12/25 23:59	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20	ug/L		06/09/25 08:10	06/12/25 23:59	1
Naphthalene	<0.20		0.20	ug/L		06/09/25 08:10	06/12/25 23:59	1
Phenanthrene	<0.20		0.20	ug/L		06/09/25 08:10	06/12/25 23:59	1
Pyrene	<0.20		0.20	ug/L		06/09/25 08:10	06/12/25 23:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	98		28 - 127	06/09/25 08:10	06/12/25 23:59	1
2-Fluorobiphenyl (Surr)	90		31 - 120	06/09/25 08:10	06/12/25 23:59	1
2-Fluorophenol (Surr)	64		17 - 120	06/09/25 08:10	06/12/25 23:59	1
Nitrobenzene-d5 (Surr)	98		27 - 120	06/09/25 08:10	06/12/25 23:59	1
Phenol-d6 (Surr)	44		10 - 120	06/09/25 08:10	06/12/25 23:59	1
p-Terphenyl-d14 (Surr)	94		45 - 120	06/09/25 08:10	06/12/25 23:59	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	06/09/25 08:10	06/18/25 10:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	63		33 - 139	06/09/25 08:10	06/18/25 10:01	1
2-Fluorobiphenyl (Surr)	81		33 - 126	06/09/25 08:10	06/18/25 10:01	1
2-Fluorophenol (Surr)	54		12 - 120	06/09/25 08:10	06/18/25 10:01	1
Nitrobenzene-d5 (Surr)	86		36 - 120	06/09/25 08:10	06/18/25 10:01	1
Phenol-d6 (Surr)	29		10 - 120	06/09/25 08:10	06/18/25 10:01	1
p-Terphenyl-d14 (Surr)	75		47 - 131	06/09/25 08:10	06/18/25 10:01	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			06/11/25 21:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		38 - 134		06/11/25 21:35	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<25		25	ug/L		06/08/25 09:04	06/16/25 23:58	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		06/08/25 09:04	06/16/25 23:58	1
C8-C18	<25		25	ug/L		06/08/25 09:04	06/16/25 23:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	98		60 - 130	06/08/25 09:04	06/16/25 23:58	1

Client Sample ID: TRIP BLANK

Lab Sample ID: 380-153989-2

Date Collected: 06/03/25 10:00

Matrix: Water

Date Received: 06/05/25 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			06/11/25 16:01	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-153989-1
SDG: Weekly

Client Sample ID: TRIP BLANK
Date Collected: 06/03/25 10:00
Date Received: 06/05/25 09:34

Lab Sample ID: 380-153989-2
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		38 - 134		06/11/25 16:01	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: 380-153989-1
SDG: Weekly

Client Sample ID: HALAWA SHAFT VIEWING POOL

Lab Sample ID: 380-153989-1

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	<0.20		ug/L	0.2	0.20	625.1 SIM	Total/NA

Surrogate Summary

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

Job ID: 380-153989-1
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)				
380-153989-1	HALAWA SHAFT VIEWING POC	97	95	112				
380-154087-O-1-A MS	Matrix Spike	97	97	118				
380-154087-O-2-A DU	Duplicate	97	92	116				
LCS 380-156754/23-A	Lab Control Sample	96	100	117				
MB 380-156754/21-A	Method Blank	96	92	115				
MRL 380-156754/22-A	Lab Control Sample	96	95	114				
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)		
380-153989-1	HALAWA SHAFT VIEWING POC	63	81	54	86	29	75		
MB 570-581308/1-A	Method Blank	72	83	53	88	30	82		
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)		
380-153989-1	HALAWA SHAFT VIEWING POC	98	90	64	98	44	94		
LCS 570-581308/2-A	Lab Control Sample	90	82	56	71	42	99		
LCSD 570-581308/3-A	Lab Control Sample Dup	88	85	64	75	44	94		
MB 570-581308/1-A	Method Blank	95	90	60	96	39	100		
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)									

Surrogate Summary

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

Job ID: 380-153989-1
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)
380-153626-C-3 MS	Matrix Spike	88
380-153626-C-3 MSD	Matrix Spike Duplicate	92
380-153989-1	HALAWA SHAFT VIEWING POOL	79
380-153989-2	TRIP BLANK	80
LCS 570-582499/4	Lab Control Sample	87
LCSD 570 582499/5	Lab Control Sample Dup	87
MB 570-582499/6	Method Blank	74
MRL 570-582499/3	Lab Control Sample	81

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)
380-153626-B-3-A MS	Matrix Spike	111
380-153626-B-3-B MSD	Matrix Spike Duplicate	108
380-153989-1	HALAWA SHAFT VIEWING POOL	98
LCS 570-581117/2-A	Lab Control Sample	100
LCSD 570-581117/3-A	Lab Control Sample Dup	104
MB 570-581117/1-A	Method Blank	110
MRL 570-581117/4-A	Lab Control Sample	94

Surrogate Legend

OTCSN = n-Octacosane (Surr)

QC Sample Results

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

Job ID: 380-153989-1
SDG: Weekly

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

Lab Sample ID: MB 380-156754/21-A

Matrix: Water

Analysis Batch: 156825

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 156754

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.10		0.10	ug/L		06/09/25 07:08	06/09/25 16:03	1
2,4'-DDD	<0.10		0.10	ug/L		06/09/25 07:08	06/09/25 16:03	1
2,4'-DDE	<0.10		0.10	ug/L		06/09/25 07:08	06/09/25 16:03	1
2,4'-DDT	<0.10		0.10	ug/L		06/09/25 07:08	06/09/25 16:03	1
2,4-Dinitrotoluene	<0.10		0.10	ug/L		06/09/25 07:08	06/09/25 16:03	1
2,6-Dinitrotoluene	<0.10		0.10	ug/L		06/09/25 07:08	06/09/25 16:03	1
2-Methylnaphthalene	<0.10		0.10	ug/L		06/09/25 07:08	06/09/25 16:03	1
4,4'-DDD	<0.10		0.10	ug/L		06/09/25 07:08	06/09/25 16:03	1
4,4'-DDE	<0.10		0.10	ug/L		06/09/25 07:08	06/09/25 16:03	1
4,4'-DDT	<0.10		0.10	ug/L		06/09/25 07:08	06/09/25 16:03	1
Acenaphthene	<0.10		0.10	ug/L		06/09/25 07:08	06/09/25 16:03	1
Acenaphthylene	<0.10		0.10	ug/L		06/09/25 07:08	06/09/25 16:03	1
Acetochlor	<0.10		0.10	ug/L		06/09/25 07:08	06/09/25 16:03	1
Alachlor	<0.050		0.050	ug/L		06/09/25 07:08	06/09/25 16:03	1
alpha-BHC	<0.10		0.10	ug/L		06/09/25 07:08	06/09/25 16:03	1
alpha-Chlordane	<0.050		0.050	ug/L		06/09/25 07:08	06/09/25 16:03	1
Anthracene	<0.020		0.020	ug/L		06/09/25 07:08	06/09/25 16:03	1
Atrazine	<0.050		0.050	ug/L		06/09/25 07:08	06/09/25 16:03	1
Benz(a)anthracene	<0.050		0.050	ug/L		06/09/25 07:08	06/09/25 16:03	1
Benzo[a]pyrene	<0.020		0.020	ug/L		06/09/25 07:08	06/09/25 16:03	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		06/09/25 07:08	06/09/25 16:03	1
Benzo[g,h,i]perylene	<0.050		0.050	ug/L		06/09/25 07:08	06/09/25 16:03	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		06/09/25 07:08	06/09/25 16:03	1
beta-BHC	<0.10		0.10	ug/L		06/09/25 07:08	06/09/25 16:03	1
Bis(2-ethylhexyl) phthalate	<0.60		0.60	ug/L		06/09/25 07:08	06/09/25 16:03	1
Bromacil	<0.10		0.10	ug/L		06/09/25 07:08	06/09/25 16:03	1
Butachlor	<0.050		0.050	ug/L		06/09/25 07:08	06/09/25 16:03	1
Butylbenzylphthalate	<0.50		0.50	ug/L		06/09/25 07:08	06/09/25 16:03	1
Chlorobenzilate	<0.10		0.10	ug/L		06/09/25 07:08	06/09/25 16:03	1
Chloroneb	<0.10		0.10	ug/L		06/09/25 07:08	06/09/25 16:03	1
Chlorothalonil (Draconil, Bravo)	<0.10		0.10	ug/L		06/09/25 07:08	06/09/25 16:03	1
Chlorpyrifos	<0.050		0.050	ug/L		06/09/25 07:08	06/09/25 16:03	1
Chrysene	<0.020		0.020	ug/L		06/09/25 07:08	06/09/25 16:03	1
delta-BHC	<0.10		0.10	ug/L		06/09/25 07:08	06/09/25 16:03	1
Di(2-ethylhexyl)adipate	<0.60		0.60	ug/L		06/09/25 07:08	06/09/25 16:03	1
Dibenz(a,h)anthracene	<0.050		0.050	ug/L		06/09/25 07:08	06/09/25 16:03	1
Diclorvos (DDVP)	<0.050		0.050	ug/L		06/09/25 07:08	06/09/25 16:03	1
Dieldrin	<0.010		0.010	ug/L		06/09/25 07:08	06/09/25 16:03	1
Diethylphthalate	<0.50		0.50	ug/L		06/09/25 07:08	06/09/25 16:03	1
Dimethylphthalate	<0.50		0.50	ug/L		06/09/25 07:08	06/09/25 16:03	1
Di-n-butyl phthalate	<1.0		1.0	ug/L		06/09/25 07:08	06/09/25 16:03	1
Di-n-octyl phthalate	<0.10		0.10	ug/L		06/09/25 07:08	06/09/25 16:03	1
Endosulfan I (Alpha)	<0.10		0.10	ug/L		06/09/25 07:08	06/09/25 16:03	1
Endosulfan II (Beta)	<0.10		0.10	ug/L		06/09/25 07:08	06/09/25 16:03	1
Endosulfan sulfate	<0.10		0.10	ug/L		06/09/25 07:08	06/09/25 16:03	1
Endrin	<0.010		0.010	ug/L		06/09/25 07:08	06/09/25 16:03	1
Endrin aldehyde	<0.10		0.10	ug/L		06/09/25 07:08	06/09/25 16:03	1
EPTC	<0.10		0.10	ug/L		06/09/25 07:08	06/09/25 16:03	1

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QC Sample Results

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

Job ID: 380-153989-1
SDG: Weekly

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

Lab Sample ID: MB 380-156754/21-A

Matrix: Water

Analysis Batch: 156825

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 156754

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.10		0.10	ug/L		06/09/25 07:08	06/09/25 16:03	1
Fluorene	<0.050		0.050	ug/L		06/09/25 07:08	06/09/25 16:03	1
gamma-Chlordane	<0.050		0.050	ug/L		06/09/25 07:08	06/09/25 16:03	1
Heptachlor	<0.010		0.010	ug/L		06/09/25 07:08	06/09/25 16:03	1
Heptachlor epoxide (isomer B)	<0.010		0.010	ug/L		06/09/25 07:08	06/09/25 16:03	1
Hexachlorobenzene	<0.050		0.050	ug/L		06/09/25 07:08	06/09/25 16:03	1
Hexachlorocyclopentadiene	<0.050		0.050	ug/L		06/09/25 07:08	06/09/25 16:03	1
Indeno[1,2,3-cd]pyrene	<0.050		0.050	ug/L		06/09/25 07:08	06/09/25 16:03	1
Isophorone	<0.10		0.10	ug/L		06/09/25 07:08	06/09/25 16:03	1
Lindane	<0.010		0.010	ug/L		06/09/25 07:08	06/09/25 16:03	1
Malathion	<0.10		0.10	ug/L		06/09/25 07:08	06/09/25 16:03	1
Methoxychlor	<0.050		0.050	ug/L		06/09/25 07:08	06/09/25 16:03	1
Metolachlor	<0.050		0.050	ug/L		06/09/25 07:08	06/09/25 16:03	1
Molinate	<0.10		0.10	ug/L		06/09/25 07:08	06/09/25 16:03	1
Naphthalene	<0.10		0.10	ug/L		06/09/25 07:08	06/09/25 16:03	1
Parathion	<0.10		0.10	ug/L		06/09/25 07:08	06/09/25 16:03	1
Pendimethalin (Penoxaline)	<0.10		0.10	ug/L		06/09/25 07:08	06/09/25 16:03	1
Phenanthrene	<0.040		0.040	ug/L		06/09/25 07:08	06/09/25 16:03	1
Propachlor	<0.050		0.050	ug/L		06/09/25 07:08	06/09/25 16:03	1
Pyrene	<0.050		0.050	ug/L		06/09/25 07:08	06/09/25 16:03	1
Simazine	<0.050		0.050	ug/L		06/09/25 07:08	06/09/25 16:03	1
Terbacil	<0.10		0.10	ug/L		06/09/25 07:08	06/09/25 16:03	1
Terbutylazine	<0.10		0.10	ug/L		06/09/25 07:08	06/09/25 16:03	1
Thiobencarb	<0.10		0.10	ug/L		06/09/25 07:08	06/09/25 16:03	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		06/09/25 07:08	06/09/25 16:03	1
trans-Nonachlor	<0.050		0.050	ug/L		06/09/25 07:08	06/09/25 16:03	1
Trifluralin	<0.10		0.10	ug/L		06/09/25 07:08	06/09/25 16:03	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Cyclopentasiloxane, decamethyl-	0.522	T J N	ug/L		3.29	541-02-6	06/09/25 07:08	06/09/25 16:03	1
Unknown	1.17	T J	ug/L		3.92	N/A	06/09/25 07:08	06/09/25 16:03	1
Unknown	0.563	T J	ug/L		4.55	N/A	06/09/25 07:08	06/09/25 16:03	1
Unknown	0.511	T J	ug/L		6.26	N/A	06/09/25 07:08	06/09/25 16:03	1
9-Octadecenamide, (Z)-	4.71	T J N	ug/L		7.97	301-02-0	06/09/25 07:08	06/09/25 16:03	1
13-Docosenamide, (Z)-	0.977	T J N	ug/L		10.53	112-84-5	06/09/25 07:08	06/09/25 16:03	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	96		70 - 130	06/09/25 07:08	06/09/25 16:03	1
Perylene-d12	92		70 - 130	06/09/25 07:08	06/09/25 16:03	1
Triphenylphosphate	115		70 - 130	06/09/25 07:08	06/09/25 16:03	1

Lab Sample ID: LCS 380-156754/23-A

Matrix: Water

Analysis Batch: 156825

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 156754

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	1.98	1.94		ug/L		98	70 - 130
2,4'-DDD	1.98	2.10		ug/L		106	70 - 130

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QC Sample Results

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

Job ID: 380-153989-1
SDG: Weekly

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

Lab Sample ID: LCS 380-156754/23-A

Matrix: Water

Analysis Batch: 156825

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 156754

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4'-DDE	1.98	2.21		ug/L		111	70 - 130
2,4'-DDT	1.98	2.02		ug/L		102	70 - 130
2,4-Dinitrotoluene	1.98	1.96		ug/L		99	70 - 130
2,6-Dinitrotoluene	1.98	2.17		ug/L		110	70 - 130
2-Methylnaphthalene	1.98	1.97		ug/L		99	70 - 130
4,4'-DDD	1.98	2.13		ug/L		107	70 - 130
4,4'-DDE	1.98	2.37		ug/L		120	70 - 130
4,4'-DDT	1.98	2.11		ug/L		106	70 - 130
Acenaphthene	1.98	1.98		ug/L		100	70 - 130
Acenaphthylene	1.98	2.00		ug/L		101	70 - 130
Acetochlor	1.98	2.11		ug/L		106	70 - 130
Alachlor	1.98	2.15		ug/L		109	70 - 130
alpha-BHC	1.98	2.04		ug/L		103	70 - 130
alpha-Chlordane	1.98	2.40		ug/L		121	70 - 130
Anthracene	1.98	1.82		ug/L		92	70 - 130
Atrazine	1.98	2.33		ug/L		118	70 - 130
Benz(a)anthracene	1.98	2.04		ug/L		103	70 - 130
Benzo[a]pyrene	1.98	1.96		ug/L		99	70 - 130
Benzo[b]fluoranthene	1.98	2.32		ug/L		117	70 - 130
Benzo[g,h,i]perylene	1.98	2.19		ug/L		111	70 - 130
Benzo[k]fluoranthene	1.98	2.03		ug/L		102	70 - 130
beta-BHC	1.98	2.12		ug/L		107	70 - 130
Bis(2-ethylhexyl) phthalate	1.98	1.94		ug/L		98	70 - 130
Bromacil	1.98	1.98		ug/L		100	70 - 130
Butachlor	1.98	2.18		ug/L		110	70 - 130
Butylbenzylphthalate	1.98	2.15		ug/L		109	70 - 130
Chlorobenzilate	1.98	2.17		ug/L		110	70 - 130
Chloroneb	1.98	2.05		ug/L		104	70 - 130
Chlorothalonil (Draconil, Bravo)	1.98	2.32		ug/L		117	70 - 130
Chlorpyrifos	1.98	2.24		ug/L		113	70 - 130
Chrysene	1.98	1.96		ug/L		99	70 - 130
delta-BHC	1.98	2.02		ug/L		102	70 - 130
Di(2-ethylhexyl)adipate	1.98	2.16		ug/L		109	70 - 130
Dibenz(a,h)anthracene	1.98	2.26		ug/L		114	70 - 130
Diclorvos (DDVP)	1.98	1.95		ug/L		99	70 - 130
Dieldrin	1.98	2.25		ug/L		114	70 - 130
Diethylphthalate	1.98	2.17		ug/L		110	70 - 130
Dimethylphthalate	1.98	2.09		ug/L		105	70 - 130
Di-n-butyl phthalate	3.96	4.21		ug/L		106	70 - 130
Di-n-octyl phthalate	1.98	1.91		ug/L		97	70 - 130
Endosulfan I (Alpha)	1.98	2.07		ug/L		104	70 - 130
Endosulfan II (Beta)	1.98	2.02		ug/L		102	70 - 130
Endosulfan sulfate	1.98	2.32		ug/L		117	70 - 130
Endrin	1.98	2.34		ug/L		118	70 - 130
Endrin aldehyde	1.98	2.31		ug/L		116	60 - 130
EPTC	1.98	2.09		ug/L		105	70 - 130
Fluoranthene	1.98	2.12		ug/L		107	70 - 130
Fluorene	1.98	2.07		ug/L		105	70 - 130
gamma-Chlordane	1.98	2.35		ug/L		119	70 - 130

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QC Sample Results

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

Job ID: 380-153989-1
SDG: Weekly

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

Lab Sample ID: LCS 380-156754/23-A

Matrix: Water

Analysis Batch: 156825

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 156754

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Heptachlor	1.98	2.37		ug/L		120	70 - 130
Heptachlor epoxide (isomer B)	1.98	2.41		ug/L		122	70 - 130
Hexachlorobenzene	1.98	2.21		ug/L		112	70 - 130
Hexachlorocyclopentadiene	1.98	2.06		ug/L		104	70 - 130
Indeno[1,2,3-cd]pyrene	1.98	2.27		ug/L		115	70 - 130
Isophorone	1.98	1.96		ug/L		99	70 - 130
Lindane	1.98	2.13		ug/L		108	70 - 130
Malathion	1.98	2.21		ug/L		112	70 - 130
Methoxychlor	1.98	2.06		ug/L		104	70 - 130
Metolachlor	1.98	2.05		ug/L		104	70 - 130
Molinate	1.98	2.12		ug/L		107	70 - 130
Naphthalene	1.98	1.90		ug/L		96	70 - 130
Parathion	1.98	2.27		ug/L		115	70 - 130
Pendimethalin (Penoxaline)	1.98	2.24		ug/L		113	70 - 130
Phenanthrene	1.98	1.93		ug/L		97	70 - 130
Propachlor	1.98	2.18		ug/L		110	70 - 130
Pyrene	1.98	2.18		ug/L		110	70 - 130
Simazine	1.98	2.15		ug/L		109	70 - 130
Terbacil	1.98	2.14		ug/L		108	70 - 130
Terbutylazine	1.98	2.28		ug/L		115	70 - 130
Thiobencarb	1.98	2.17		ug/L		110	70 - 130
trans-Nonachlor	1.98	2.37		ug/L		120	70 - 130
Trifluralin	1.98	2.16		ug/L		109	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Nitro-m-xylene	96		70 - 130
Perylene-d12	100		70 - 130
Triphenylphosphate	117		70 - 130

Lab Sample ID: MRL 380-156754/22-A

Matrix: Water

Analysis Batch: 156825

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 156754

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	0.0992	0.116		ug/L		117	50 - 150
2,4'-DDD	0.0992	0.0868	J	ug/L		88	50 - 150
2,4'-DDE	0.0992	0.0992		ug/L		100	50 - 150
2,4'-DDT	0.0992	0.106		ug/L		107	50 - 150
2,4-Dinitrotoluene	0.0992	0.106		ug/L		107	50 - 150
2,6-Dinitrotoluene	0.0992	0.125		ug/L		126	50 - 150
2-Methylnaphthalene	0.0992	0.103		ug/L		103	50 - 150
4,4'-DDD	0.0992	0.107		ug/L		108	50 - 150
4,4'-DDE	0.0992	0.103		ug/L		104	50 - 150
4,4'-DDT	0.0992	0.118		ug/L		119	50 - 150
Acenaphthene	0.0992	0.0968	J	ug/L		98	50 - 150
Acenaphthylene	0.0992	0.0909	J	ug/L		92	50 - 150
Acetochlor	0.0992	0.115		ug/L		116	50 - 150
Alachlor	0.0496	0.0532		ug/L		107	50 - 150

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-153989-1
SDG: Weekly

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

Lab Sample ID: MRL 380-156754/22-A

Matrix: Water

Analysis Batch: 156825

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 156754

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
alpha-BHC	0.0992	0.102		ug/L		102	50 - 150
alpha-Chlordane	0.0248	<0.029		ug/L		116	50 - 150
Anthracene	0.0198	0.0198	J	ug/L		100	50 - 150
Atrazine	0.0496	0.0514		ug/L		104	50 - 150
Benz(a)anthracene	0.0496	0.0511		ug/L		103	50 - 150
Benzo[a]pyrene	0.0198	0.0241		ug/L		122	50 - 150
Benzo[b]fluoranthene	0.0198	0.0195	J	ug/L		98	50 - 150
Benzo[g,h,i]perylene	0.0496	0.0569		ug/L		115	50 - 150
Benzo[k]fluoranthene	0.0198	0.0225		ug/L		113	50 - 150
beta-BHC	0.0992	0.107		ug/L		107	50 - 150
Bis(2-ethylhexyl) phthalate	0.595	0.584	J	ug/L		98	50 - 150
Bromacil	0.0992	0.112		ug/L		112	50 - 150
Butachlor	0.0496	0.0611		ug/L		123	50 - 150
Butylbenzylphthalate	0.496	0.527		ug/L		106	50 - 150
Chlorobenzilate	0.0992	0.108		ug/L		109	50 - 150
Chloroneb	0.0992	0.111		ug/L		112	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0992	0.0927	J	ug/L		93	50 - 150
Chlorpyrifos	0.0496	0.0470	J	ug/L		95	50 - 150
Chrysene	0.0198	0.0202		ug/L		102	50 - 150
delta-BHC	0.0992	0.100		ug/L		101	50 - 150
Di(2-ethylhexyl)adipate	0.595	0.642		ug/L		108	50 - 150
Dibenz(a,h)anthracene	0.0496	0.0565		ug/L		114	50 - 150
Diclorvos (DDVP)	0.0496	0.0511		ug/L		103	50 - 150
Dieldrin	0.00992	0.0133		ug/L		134	50 - 150
Diethylphthalate	0.496	0.523		ug/L		105	50 - 150
Dimethylphthalate	0.496	0.502		ug/L		101	50 - 150
Di-n-butyl phthalate	0.496	0.636	J	ug/L		128	49 - 243
Di-n-octyl phthalate	0.0992	0.0992		ug/L		100	50 - 150
Endosulfan I (Alpha)	0.0992	0.107		ug/L		107	50 - 150
Endosulfan II (Beta)	0.0992	0.101		ug/L		102	50 - 150
Endosulfan sulfate	0.0992	0.110		ug/L		111	50 - 150
Endrin	0.00992	0.0101		ug/L		102	50 - 150
Endrin aldehyde	0.0992	0.110		ug/L		111	50 - 150
EPTC	0.0992	0.0944	J	ug/L		95	50 - 150
Fluoranthene	0.0992	0.0969	J	ug/L		98	50 - 150
Fluorene	0.0496	0.0517		ug/L		104	50 - 150
gamma-Chlordane	0.0248	0.0284	J	ug/L		115	50 - 150
Heptachlor	0.00992	0.0129		ug/L		130	50 - 150
Heptachlor epoxide (isomer B)	0.00992	0.0135		ug/L		136	50 - 150
Hexachlorobenzene	0.0496	0.0460	J	ug/L		93	50 - 150
Hexachlorocyclopentadiene	0.0496	0.0424	J	ug/L		85	50 - 150
Indeno[1,2,3-cd]pyrene	0.0496	0.0704		ug/L		142	50 - 150
Isophorone	0.0992	0.111		ug/L		112	50 - 150
Lindane	0.00992	0.0125		ug/L		126	50 - 150
Malathion	0.0992	0.114		ug/L		115	50 - 150
Methoxychlor	0.0496	0.0573		ug/L		115	50 - 150
Metolachlor	0.0496	0.0548		ug/L		110	50 - 150
Molinate	0.0992	0.101		ug/L		102	50 - 150
Naphthalene	0.0992	0.0935	J	ug/L		94	50 - 150

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-153989-1
SDG: Weekly

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

Lab Sample ID: MRL 380-156754/22-A

Matrix: Water

Analysis Batch: 156825

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 156754

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Parathion	0.0992	0.0988	J	ug/L		100	50 - 150
Pendimethalin (Penoxaline)	0.0992	0.108		ug/L		109	50 - 150
Phenanthrene	0.0397	0.0419		ug/L		106	50 - 150
Propachlor	0.0496	0.0524		ug/L		106	50 - 150
Pyrene	0.0496	0.0512		ug/L		103	50 - 150
Simazine	0.0496	0.0456	J	ug/L		92	50 - 150
Terbacil	0.0992	0.0904	J	ug/L		91	50 - 150
Terbutylazine	0.0992	0.100		ug/L		101	50 - 150
Thiobencarb	0.0992	0.105		ug/L		106	50 - 150
trans-Nonachlor	0.0248	0.0289	J	ug/L		117	50 - 150
Trifluralin	0.0992	0.105		ug/L		106	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
2-Nitro-m-xylene	96		70 - 130
Perylene-d12	95		70 - 130
Triphenylphosphate	114		70 - 130

Lab Sample ID: 380-154087-O-1-A MS

Matrix: Water

Analysis Batch: 156825

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 156754

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.097		1.97	1.95		ug/L		98	70 - 130
2,4'-DDD	<0.097		1.97	2.06		ug/L		105	70 - 130
2,4'-DDE	<0.097		1.97	2.20		ug/L		112	70 - 130
2,4'-DDT	<0.097		1.97	2.02		ug/L		103	70 - 130
2,4-Dinitrotoluene	<0.097		1.97	2.10		ug/L		107	70 - 130
2,6-Dinitrotoluene	<0.097		1.97	2.28		ug/L		116	70 - 130
2-Methylnaphthalene	<0.097		1.97	1.97		ug/L		100	70 - 130
4,4'-DDD	<0.097		1.97	2.07		ug/L		105	70 - 130
4,4'-DDE	<0.097		1.97	2.33		ug/L		118	70 - 130
4,4'-DDT	<0.097		1.97	2.07		ug/L		105	70 - 130
Acenaphthene	<0.097		1.97	1.98		ug/L		100	70 - 130
Acenaphthylene	<0.097		1.97	2.00		ug/L		102	70 - 130
Acetochlor	<0.097		1.97	2.07		ug/L		105	70 - 130
Alachlor	<0.049		1.97	2.13		ug/L		109	70 - 130
alpha-BHC	<0.097		1.97	2.01		ug/L		102	70 - 130
alpha-Chlordane	<0.049		1.97	2.36		ug/L		120	70 - 130
Anthracene	<0.019	F1	1.97	0.932	F1	ug/L		47	70 - 130
Atrazine	<0.049		1.97	2.37		ug/L		121	70 - 130
Benz(a)anthracene	<0.049		1.97	1.87		ug/L		95	70 - 130
Benzo[a]pyrene	<0.019		1.97	1.71		ug/L		87	70 - 130
Benzo[b]fluoranthene	<0.019		1.97	2.35		ug/L		120	70 - 130
Benzo[g,h,i]perylene	<0.049		1.97	2.14		ug/L		109	70 - 130
Benzo[k]fluoranthene	<0.019		1.97	1.86		ug/L		95	70 - 130
beta-BHC	<0.097		1.97	2.14		ug/L		109	70 - 130
Bis(2-ethylhexyl) phthalate	<0.58		1.97	1.92		ug/L		98	70 - 130
Bromacil	<0.097		1.97	2.06		ug/L		105	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-153989-1
SDG: Weekly

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

Lab Sample ID: 380-154087-O-1-A MS

Matrix: Water

Analysis Batch: 156825

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 156754

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Butachlor	<0.049		1.97	2.15		ug/L		109	70 - 130
Butylbenzylphthalate	<0.49		1.97	2.10		ug/L		107	70 - 130
Chlorobenzilate	<0.097		1.97	2.16		ug/L		110	70 - 130
Chloroneb	<0.097		1.97	2.07		ug/L		105	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.097		1.97	2.34		ug/L		119	70 - 130
Chlorpyrifos	<0.049		1.97	2.25		ug/L		114	70 - 130
Chrysene	<0.019		1.97	1.97		ug/L		100	70 - 130
delta-BHC	<0.097		1.97	2.00		ug/L		102	70 - 130
Di(2-ethylhexyl)adipate	<0.58		1.97	2.14		ug/L		109	70 - 130
Dibenz(a,h)anthracene	<0.049		1.97	2.21		ug/L		112	70 - 130
Diclorvos (DDVP)	<0.049		1.97	2.03		ug/L		103	70 - 130
Dieldrin	<0.0097		1.97	2.17		ug/L		111	70 - 130
Diethylphthalate	<0.49		1.97	2.16		ug/L		110	70 - 130
Dimethylphthalate	<0.49		1.97	2.10		ug/L		107	70 - 130
Di-n-butyl phthalate	<0.97		3.93	4.19		ug/L		100	70 - 130
Di-n-octyl phthalate	<0.097		1.97	1.92		ug/L		98	70 - 130
Endosulfan I (Alpha)	<0.097		1.97	2.01		ug/L		102	70 - 130
Endosulfan II (Beta)	<0.097		1.97	2.04		ug/L		104	70 - 130
Endosulfan sulfate	<0.097		1.97	2.28		ug/L		116	70 - 130
Endrin	<0.0097		1.97	2.28		ug/L		116	70 - 130
Endrin aldehyde	<0.097		1.97	2.13		ug/L		108	60 - 130
EPTC	<0.097		1.97	2.08		ug/L		106	70 - 130
Fluoranthene	<0.097		1.97	2.08		ug/L		106	70 - 130
Fluorene	<0.049		1.97	2.09		ug/L		106	70 - 130
gamma-Chlordane	<0.049		1.97	2.30		ug/L		117	70 - 130
Heptachlor	<0.0097		1.97	2.38		ug/L		121	70 - 130
Heptachlor epoxide (isomer B)	<0.0097		1.97	2.34		ug/L		119	70 - 130
Hexachlorobenzene	<0.049		1.97	2.24		ug/L		114	70 - 130
Hexachlorocyclopentadiene	<0.049		1.97	2.21		ug/L		113	70 - 130
Indeno[1,2,3-cd]pyrene	<0.049		1.97	2.19		ug/L		111	70 - 130
Isophorone	<0.097		1.97	1.99		ug/L		101	70 - 130
Lindane	<0.0097		1.97	2.13		ug/L		108	70 - 130
Malathion	<0.097		1.97	2.17		ug/L		111	70 - 130
Methoxychlor	<0.049		1.97	2.05		ug/L		104	70 - 130
Metolachlor	<0.049		1.97	2.03		ug/L		103	70 - 130
Molinate	<0.097		1.97	2.15		ug/L		109	70 - 130
Naphthalene	<0.097		1.97	1.91		ug/L		97	70 - 130
Parathion	<0.097		1.97	2.28		ug/L		116	70 - 130
Pendimethalin (Penoxaline)	<0.097		1.97	2.28		ug/L		116	70 - 130
Phenanthrene	<0.039		1.97	1.88		ug/L		96	70 - 130
Propachlor	<0.049		1.97	2.18		ug/L		111	70 - 130
Pyrene	<0.049		1.97	2.12		ug/L		108	70 - 130
Simazine	<0.049		1.97	2.18		ug/L		111	70 - 130
Terbacil	<0.097		1.97	2.19		ug/L		111	70 - 130
Terbutylazine	<0.097		1.97	2.29		ug/L		117	70 - 130
Thiobencarb	<0.097		1.97	2.17		ug/L		110	70 - 130
trans-Nonachlor	<0.049		1.97	2.37		ug/L		120	70 - 130
Trifluralin	<0.097		1.97	2.25		ug/L		114	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-153989-1
SDG: Weekly

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

Lab Sample ID: 380-154087-O-1-A MS

Matrix: Water

Analysis Batch: 156825

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 156754

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
2-Nitro-m-xylene	97		70 - 130
Perylene-d12	97		70 - 130
Triphenylphosphate	118		70 - 130

Lab Sample ID: 380-154087-O-2-A DU

Matrix: Water

Analysis Batch: 156825

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 156754

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
1-Methylnaphthalene	<0.098		<0.098		ug/L		NC	20
2,4'-DDD	<0.098		<0.098		ug/L		NC	20
2,4'-DDE	<0.098		<0.098		ug/L		NC	20
2,4'-DDT	<0.098		<0.098		ug/L		NC	20
2,4-Dinitrotoluene	<0.098		<0.098		ug/L		NC	20
2,6-Dinitrotoluene	<0.098		<0.098		ug/L		NC	20
2-Methylnaphthalene	<0.098		<0.098		ug/L		NC	20
4,4'-DDD	<0.098		<0.098		ug/L		NC	20
4,4'-DDE	<0.098		<0.098		ug/L		NC	20
4,4'-DDT	<0.098		<0.098		ug/L		NC	20
Acenaphthene	<0.098		<0.098		ug/L		NC	20
Acenaphthylene	<0.098		<0.098		ug/L		NC	20
Acetochlor	<0.098		<0.098		ug/L		NC	20
Alachlor	<0.049		<0.049		ug/L		NC	20
alpha-BHC	<0.098		<0.098		ug/L		NC	20
alpha-Chlordane	<0.049		<0.049		ug/L		NC	20
Anthracene	<0.020		<0.020		ug/L		NC	20
Atrazine	<0.049		<0.049		ug/L		NC	20
Benz(a)anthracene	<0.049		<0.049		ug/L		NC	20
Benzo[a]pyrene	<0.020		<0.020		ug/L		NC	20
Benzo[b]fluoranthene	<0.020		<0.020		ug/L		NC	20
Benzo[g,h,i]perylene	<0.049		<0.049		ug/L		NC	20
Benzo[k]fluoranthene	<0.020		<0.020		ug/L		NC	20
beta-BHC	<0.098		<0.098		ug/L		NC	20
Bis(2-ethylhexyl) phthalate	<0.59		<0.59		ug/L		NC	20
Bromacil	<0.098		<0.098		ug/L		NC	20
Butachlor	<0.049		<0.049		ug/L		NC	20
Butylbenzylphthalate	<0.49		<0.49		ug/L		NC	20
Chlorobenzilate	<0.098		<0.098		ug/L		NC	20
Chloroneb	<0.098		<0.098		ug/L		NC	20
Chlorothalonil (Draconil, Bravo)	<0.098		<0.098		ug/L		NC	20
Chlorpyrifos	<0.049		<0.049		ug/L		NC	20
Chrysene	<0.020		<0.020		ug/L		NC	20
delta-BHC	<0.098		<0.098		ug/L		NC	20
Di(2-ethylhexyl)adipate	<0.59		<0.59		ug/L		NC	20
Dibenz(a,h)anthracene	<0.049		<0.049		ug/L		NC	20
Diclorvos (DDVP)	<0.049		<0.049		ug/L		NC	20
Dieldrin	<0.0098		<0.0098		ug/L		NC	20
Diethylphthalate	<0.49		<0.49		ug/L		NC	20

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-153989-1
SDG: Weekly

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

Lab Sample ID: 380-154087-O-2-A DU

Matrix: Water

Analysis Batch: 156825

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 156754

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Dimethylphthalate	<0.49		<0.49		ug/L		NC	20
Di-n-butyl phthalate	<0.98		<0.98		ug/L		NC	20
Di-n-octyl phthalate	<0.098		<0.098		ug/L		NC	20
Endosulfan I (Alpha)	<0.098		<0.098		ug/L		NC	20
Endosulfan II (Beta)	<0.098		<0.098		ug/L		NC	20
Endosulfan sulfate	<0.098		<0.098		ug/L		NC	20
Endrin	<0.0098		<0.0098		ug/L		NC	20
Endrin aldehyde	<0.098		<0.098		ug/L		NC	20
EPTC	<0.098		<0.098		ug/L		NC	20
Fluoranthene	<0.098		<0.098		ug/L		NC	20
Fluorene	<0.049		<0.049		ug/L		NC	20
gamma-Chlordane	<0.049		<0.049		ug/L		NC	20
Heptachlor	<0.0098		<0.0098		ug/L		NC	20
Heptachlor epoxide (isomer B)	<0.0098		<0.0098		ug/L		NC	20
Hexachlorobenzene	<0.049		<0.049		ug/L		NC	20
Hexachlorocyclopentadiene	<0.049		<0.049		ug/L		NC	20
Indeno[1,2,3-cd]pyrene	<0.049		<0.049		ug/L		NC	20
Isophorone	<0.098		<0.098		ug/L		NC	20
Lindane	<0.0098		<0.0098		ug/L		NC	20
Malathion	<0.098		<0.098		ug/L		NC	20
Methoxychlor	<0.049		<0.049		ug/L		NC	20
Metolachlor	<0.049		<0.049		ug/L		NC	20
Molinate	<0.098		<0.098		ug/L		NC	20
Naphthalene	<0.098		<0.098		ug/L		NC	20
Parathion	<0.098		<0.098		ug/L		NC	20
Pendimethalin (Penoxaline)	<0.098		<0.098		ug/L		NC	20
Phenanthrene	<0.039		<0.039		ug/L		NC	20
Propachlor	<0.049		<0.049		ug/L		NC	20
Pyrene	<0.049		<0.049		ug/L		NC	20
Simazine	<0.049		<0.049		ug/L		NC	20
Terbacil	<0.098		<0.098		ug/L		NC	20
Terbutylazine	<0.098		<0.098		ug/L		NC	20
Thiobencarb	<0.098		<0.098		ug/L		NC	20
Total Permethrin (mixed isomers)	<0.20		<0.20		ug/L		NC	20
trans-Nonachlor	<0.049		<0.049		ug/L		NC	20
Trifluralin	<0.098		<0.098		ug/L		NC	20

Surrogate	DU %Recovery	DU Qualifier	Limits
2-Nitro-m-xylene	97		70 - 130
Perylene-d12	92		70 - 130
Triphenylphosphate	116		70 - 130

QC Sample Results

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

Job ID: 380-153989-1
SDG: Weekly

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

Lab Sample ID: MB 570-581308/1-A
Matrix: Water
Analysis Batch: 585733

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 581308

<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>06/09/25 08:10</i>	<i>06/18/25 08:25</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)	72		33 - 139				06/09/25 08:10	06/18/25 08:25	1
2-Fluorobiphenyl (Surr)	83		33 - 126				06/09/25 08:10	06/18/25 08:25	1
2-Fluorophenol (Surr)	53		12 - 120				06/09/25 08:10	06/18/25 08:25	1
Nitrobenzene-d5 (Surr)	88		36 - 120				06/09/25 08:10	06/18/25 08:25	1
Phenol-d6 (Surr)	30		10 - 120				06/09/25 08:10	06/18/25 08:25	1
p-Terphenyl-d14 (Surr)	82		47 - 131				06/09/25 08:10	06/18/25 08:25	1

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

Lab Sample ID: MB 570-581308/1-A
Matrix: Water
Analysis Batch: 583049

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 581308

<i>Analyte</i>	<i>Result</i>	<i>MB MB Qualifier</i>	<i>RL</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1-Methylnaphthalene	<0.20		0.20	ug/L		06/09/25 08:10	06/12/25 11:33	1
2-Methylnaphthalene	<0.20		0.20	ug/L		06/09/25 08:10	06/12/25 11:33	1
Acenaphthene	<0.20		0.20	ug/L		06/09/25 08:10	06/12/25 11:33	1
Acenaphthylene	<0.20		0.20	ug/L		06/09/25 08:10	06/12/25 11:33	1
Anthracene	<0.20		0.20	ug/L		06/09/25 08:10	06/12/25 11:33	1
Benzo[a]anthracene	<0.20		0.20	ug/L		06/09/25 08:10	06/12/25 11:33	1
Benzo[a]pyrene	<0.20		0.20	ug/L		06/09/25 08:10	06/12/25 11:33	1
Benzo[b]fluoranthene	<0.20		0.20	ug/L		06/09/25 08:10	06/12/25 11:33	1
Benzo[g,h,i]perylene	<0.20		0.20	ug/L		06/09/25 08:10	06/12/25 11:33	1
Benzo[k]fluoranthene	<0.20		0.20	ug/L		06/09/25 08:10	06/12/25 11:33	1
Chrysene	<0.20		0.20	ug/L		06/09/25 08:10	06/12/25 11:33	1
Dibenz(a,h)anthracene	<0.20		0.20	ug/L		06/09/25 08:10	06/12/25 11:33	1
Fluoranthene	<0.20		0.20	ug/L		06/09/25 08:10	06/12/25 11:33	1
Fluorene	<0.20		0.20	ug/L		06/09/25 08:10	06/12/25 11:33	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20	ug/L		06/09/25 08:10	06/12/25 11:33	1
Naphthalene	<0.20		0.20	ug/L		06/09/25 08:10	06/12/25 11:33	1
Phenanthrene	<0.20		0.20	ug/L		06/09/25 08:10	06/12/25 11:33	1
Pyrene	<0.20		0.20	ug/L		06/09/25 08:10	06/12/25 11:33	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>MB MB Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
2,4,6-Tribromophenol (Surr)	95		28 - 127			06/09/25 08:10	06/12/25 11:33	1
2-Fluorobiphenyl (Surr)	90		31 - 120			06/09/25 08:10	06/12/25 11:33	1
2-Fluorophenol (Surr)	60		17 - 120			06/09/25 08:10	06/12/25 11:33	1
Nitrobenzene-d5 (Surr)	96		27 - 120			06/09/25 08:10	06/12/25 11:33	1
Phenol-d6 (Surr)	39		10 - 120			06/09/25 08:10	06/12/25 11:33	1
p-Terphenyl-d14 (Surr)	100		45 - 120			06/09/25 08:10	06/12/25 11:33	1

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-153989-1
SDG: Weekly

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

Lab Sample ID: LCS 570-581308/2-A

Matrix: Water

Analysis Batch: 583049

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 581308

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	20.0	16.6		ug/L		83	47 - 120
2-Methylnaphthalene	20.0	16.5		ug/L		82	43 - 120
Acenaphthene	20.0	19.3		ug/L		96	60 - 132
Acenaphthylene	20.0	19.6		ug/L		98	54 - 126
Anthracene	20.0	20.1		ug/L		101	43 - 120
Benzo[a]anthracene	20.0	21.2		ug/L		106	42 - 133
Benzo[a]pyrene	20.0	20.9		ug/L		104	32 - 148
Benzo[b]fluoranthene	20.0	20.9		ug/L		105	42 - 140
Benzo[g,h,i]perylene	20.0	20.8		ug/L		104	1 - 195
Benzo[k]fluoranthene	20.0	20.1		ug/L		100	25 - 146
Chrysene	20.0	21.0		ug/L		105	44 - 140
Dibenz(a,h)anthracene	20.0	21.3		ug/L		107	1 - 200
Fluoranthene	20.0	21.6		ug/L		108	43 - 121
Fluorene	20.0	19.9		ug/L		99	70 - 120
Indeno[1,2,3-cd]pyrene	20.0	20.2		ug/L		101	1 - 151
Naphthalene	20.0	15.3		ug/L		77	36 - 120
Phenanthrene	20.0	20.1		ug/L		101	65 - 120
Pyrene	20.0	21.7		ug/L		109	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	90		28 - 127
2-Fluorobiphenyl (Surr)	82		31 - 120
2-Fluorophenol (Surr)	56		17 - 120
Nitrobenzene-d5 (Surr)	71		27 - 120
Phenol-d6 (Surr)	42		10 - 120
p-Terphenyl-d14 (Surr)	99		45 - 120

Lab Sample ID: LCSD 570-581308/3-A

Matrix: Water

Analysis Batch: 583049

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 581308

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	20.0	17.1		ug/L		85	47 - 120	3	20
2-Methylnaphthalene	20.0	16.8		ug/L		84	43 - 120	2	20
Acenaphthene	20.0	19.8		ug/L		99	60 - 132	3	29
Acenaphthylene	20.0	20.3		ug/L		102	54 - 126	4	45
Anthracene	20.0	19.6		ug/L		98	43 - 120	3	40
Benzo[a]anthracene	20.0	21.6		ug/L		108	42 - 133	2	32
Benzo[a]pyrene	20.0	21.5		ug/L		107	32 - 148	3	43
Benzo[b]fluoranthene	20.0	21.6		ug/L		108	42 - 140	3	43
Benzo[g,h,i]perylene	20.0	21.0		ug/L		105	1 - 195	1	61
Benzo[k]fluoranthene	20.0	20.5		ug/L		103	25 - 146	2	38
Chrysene	20.0	21.5		ug/L		107	44 - 140	2	53
Dibenz(a,h)anthracene	20.0	22.1		ug/L		110	1 - 200	4	75
Fluoranthene	20.0	21.4		ug/L		107	43 - 121	1	40
Fluorene	20.0	20.0		ug/L		100	70 - 120	1	23
Indeno[1,2,3-cd]pyrene	20.0	20.6		ug/L		103	1 - 151	2	60
Naphthalene	20.0	16.2		ug/L		81	36 - 120	6	39

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-153989-1
SDG: Weekly

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

Lab Sample ID: LCSD 570-581308/3-A

Matrix: Water

Analysis Batch: 583049

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 581308

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenanthrene	20.0	19.9		ug/L		100	65 - 120	1	24
Pyrene	20.0	21.3		ug/L		107	70 - 120	2	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	88		28 - 127
2-Fluorobiphenyl (Surr)	85		31 - 120
2-Fluorophenol (Surr)	64		17 - 120
Nitrobenzene-d5 (Surr)	75		27 - 120
Phenol-d6 (Surr)	44		10 - 120
p-Terphenyl-d14 (Surr)	94		45 - 120

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

Lab Sample ID: MB 570-582499/6

Matrix: Water

Analysis Batch: 582499

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			06/11/25 12:29	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	74		38 - 134		06/11/25 12:29	1

Lab Sample ID: LCS 570-582499/4

Matrix: Water

Analysis Batch: 582499

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	393		ug/L		98	78 - 120

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

Lab Sample ID: LCSD 570-582499/5

Matrix: Water

Analysis Batch: 582499

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	387		ug/L		97	78 - 120	2	10

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

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-153989-1
SDG: Weekly

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

Lab Sample ID: MRL 570-582499/3

Matrix: Water

Analysis Batch: 582499

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	9.95	J	ug/L		99	50 - 150
Surrogate	MRL %Recovery	MRL Qualifier	Limits				
4-Bromofluorobenzene (Surr)	81		38 - 134				

Lab Sample ID: 380-153626-C-3 MS

Matrix: Water

Analysis Batch: 582499

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	410		ug/L	-	102	68 - 122
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	88		38 - 134						

Lab Sample ID: 380-153626-C-3 MSD

Matrix: Water

Analysis Batch: 582499

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 Limits
Gasoline Range Organics (C4-C13)	<10		400	398		ug/L		100	68 - 122	3	18
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	92		38 - 134								

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

Lab Sample ID: MB 570-581117/1-A

Matrix: Water

Analysis Batch: 584442

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 581117

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Diesel Range Organics (C10-C24)	<25		25	ug/L		06/08/25 09:03	06/16/25 19:42	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		06/08/25 09:03	06/16/25 19:42	1
C8-C18	<25		25	ug/L		06/08/25 09:03	06/16/25 19:42	1
Surrogate	MB	MB	Limits			Prepared	Analyzed	Dil Fac
%Recovery	Qualifier							
n-Octacosane (Surr)	110		60 - 130			06/08/25 09:03	06/16/25 19:42	1

Lab Sample ID: LCS 570-581117/2-A

Matrix: Water

Analysis Batch: 584442

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 581117

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
C10-C28	1600	1420		ug/L		89	56 - 127

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-153989-1
SDG: Weekly

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

Lab Sample ID: LCS 570-581117/2-A
Matrix: Water
Analysis Batch: 584442

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 581117

Surrogate	LCS %Recovery	LCS Qualifier	Limits
n-Octacosane (Surr)	100		60 - 130

Lab Sample ID: LCSD 570-581117/3-A
Matrix: Water
Analysis Batch: 584442

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 581117

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
C10-C28	1600	1440		ug/L		90	56 - 127	2	23
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
n-Octacosane (Surr)	104		60 - 130						

Lab Sample ID: MRL 570-581117/4-A
Matrix: Water
Analysis Batch: 584442

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 581117

			Spike	MRL	MRL				%Rec		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
C10-C28			0.0200	<0.020		mg/L		93	50 - 150		
Surrogate	MRL	MRL									
	%Recovery	Qualifier	Limits								
n-Octacosane (Surr)	94		60 - 130								

Lab Sample ID: 380-153626-B-3-A MS
Matrix: Water
Analysis Batch: 584442

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 581117

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
C10-C28	<25		1620	1640		ug/L		101	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
n-Octacosane (Surr)	111		60 - 130								

Lab Sample ID: 380-153626-B-3-B MSD
Matrix: Water
Analysis Batch: 584442

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 581117

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
C10-C28	<25		1610	1550		ug/L		96	70 - 130	6	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
n-Octacosane (Surr)	108		60 - 130								

QC Association Summary

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

Job ID: 380-153989-1
SDG: Weekly

GC/MS Semi VOA

Prep Batch: 156754

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-153989-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	525.2	
MB 380-156754/21-A	Method Blank	Total/NA	Water	525.2	
LCS 380-156754/23-A	Lab Control Sample	Total/NA	Water	525.2	
MRL 380-156754/22-A	Lab Control Sample	Total/NA	Water	525.2	
380-154087-O-1-A MS	Matrix Spike	Total/NA	Water	525.2	
380-154087-O-2-A DU	Duplicate	Total/NA	Water	525.2	

Analysis Batch: 156825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-153989-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	525.2	156754
MB 380-156754/21-A	Method Blank	Total/NA	Water	525.2	156754
LCS 380-156754/23-A	Lab Control Sample	Total/NA	Water	525.2	156754
MRL 380-156754/22-A	Lab Control Sample	Total/NA	Water	525.2	156754
380-154087-O-1-A MS	Matrix Spike	Total/NA	Water	525.2	156754
380-154087-O-2-A DU	Duplicate	Total/NA	Water	525.2	156754

Prep Batch: 581308

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-153989-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	625.1	
MB 570-581308/1-A	Method Blank	Total/NA	Water	625.1	
LCS 570-581308/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 570-581308/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	

Analysis Batch: 583049

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-581308/1-A	Method Blank	Total/NA	Water	625.1 SIM	581308
LCS 570-581308/2-A	Lab Control Sample	Total/NA	Water	625.1 SIM	581308
LCSD 570-581308/3-A	Lab Control Sample Dup	Total/NA	Water	625.1 SIM	581308

Analysis Batch: 583464

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-153989-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	625.1 SIM	581308

Analysis Batch: 585733

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-153989-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	625.1	581308
MB 570-581308/1-A	Method Blank	Total/NA	Water	625.1	581308

GC VOA

Analysis Batch: 582499

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-153989-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	8015B GRO LL	
380-153989-2	TRIP BLANK	Total/NA	Water	8015B GRO LL	
MB 570-582499/6	Method Blank	Total/NA	Water	8015B GRO LL	
LCS 570-582499/4	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-582499/5	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	
MRL 570-582499/3	Lab Control Sample	Total/NA	Water	8015B GRO LL	
380-153626-C-3 MS	Matrix Spike	Total/NA	Water	8015B GRO LL	
380-153626-C-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8015B GRO LL	

Eurofins Eaton Analytical Pomona

QC Association Summary

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

Job ID: 380-153989-1
SDG: Weekly

GC Semi VOA

Prep Batch: 581117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-153989-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	3510C	
MB 570-581117/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-581117/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-581117/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-581117/4-A	Lab Control Sample	Total/NA	Water	3510C	
380-153626-B-3-A MS	Matrix Spike	Total/NA	Water	3510C	
380-153626-B-3-B MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

Analysis Batch: 584442

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-153989-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	8015B	581117
MB 570-581117/1-A	Method Blank	Total/NA	Water	8015B	581117
LCS 570-581117/2-A	Lab Control Sample	Total/NA	Water	8015B	581117
LCSD 570-581117/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	581117
MRL 570-581117/4-A	Lab Control Sample	Total/NA	Water	8015B	581117
380-153626-B-3-A MS	Matrix Spike	Total/NA	Water	8015B	581117
380-153626-B-3-B MSD	Matrix Spike Duplicate	Total/NA	Water	8015B	581117

Lab Chronicle

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

Job ID: 380-153989-1
SDG: Weekly

Client Sample ID: HALAWA SHAFT VIEWING POOL

Lab Sample ID: 380-153989-1

Date Collected: 06/03/25 10:00

Matrix: Water

Date Received: 06/05/25 09:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			156754	OTM3	EA POM	06/09/25 07:08
Total/NA	Analysis	525.2		1	156825	Q8LA	EA POM	06/09/25 22:06
Total/NA	Prep	625.1			581308	OAJ3	EET CAL 4	06/09/25 08:10
Total/NA	Analysis	625.1		1	585733	PQS1	EET CAL 4	06/18/25 10:01
Total/NA	Prep	625.1			581308	OAJ3	EET CAL 4	06/09/25 08:10
Total/NA	Analysis	625.1 SIM		1	583464	J7WE	EET CAL 4	06/12/25 23:59
Total/NA	Analysis	8015B GRO LL		1	582499	A9VE	EET CAL 4	06/11/25 21:35
Total/NA	Prep	3510C			581117	TVD6	EET CAL 4	06/08/25 09:04
Total/NA	Analysis	8015B		1	584442	H6FE	EET CAL 4	06/16/25 23:58

Client Sample ID: TRIP BLANK

Lab Sample ID: 380-153989-2

Date Collected: 06/03/25 10:00

Matrix: Water

Date Received: 06/05/25 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	582499	A9VE	EET CAL 4	06/11/25 16:01

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: 380-153989-1
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
Alaska (UST)	State	25-005	03-02-26
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

Eurofins Eaton Analytical Pomona

Accreditation/Certification Summary

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

Job ID: 380-153989-1
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
California	State	3082	07-31-25
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: 380-153989-1
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: 380-153989-1
SDG: Weekly

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
380-153989-1	HALAWA SHAFT VIEWING POOL	Water	06/03/25 10:00	06/05/25 09:34
380-153989-2	TRIP BLANK	Water	06/03/25 10:00	06/05/25 09:34

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Chain of Custody Record

Client Information		Sampler Ryan Greer		Lab PM: Arada, Rachelle		Carrier Tracking No(s):		COC No: 380-28005-2757 1	
Client Contact: Kirk Iwamoto		Phone: 808-748-5840		E-Mail: Rachelle.Arada@eurofins.com		State of Origin: HI		Page:	
Company: City & County of Honolulu		PWSID:		Analysis Requested		Job #:		Preservation Codes: R - NaThioSO4 RA - NaThioHCl Q - Na2SO3 QA - Na2SO3/HCl Y - Trizma I - NH4 Acetate	
Address: 630 South Beretania Street Chemistry Lab		Due Date Requested:		Perform MS/MSD (Yes or No)		Field Filtered Sample (Yes or No)		Total Number of Containers	
City: Honolulu		TAT Requested (days):		626.1, 626.1, SIM		8016B_GRO_LL - (MOD) GRO		8016B_DRO_LL_CS - HNL Ranges C10-C24/C24-C36/C8-	
State Zip: HI, 96843		Compliance Project: ☐ Yes ☒ No		Sample Type (C=Comp, G=grab)		Sample Time		Sample Date	
Phone: 808-748-5840(Tel)		PO #: C20525101 exp 05312023		Matrix (W=water, S=solid, O=water/oil, BT=tissue, Anal)		Preservation Code:		Special Instructions/Note:	
Email: KIWAMOTO@hbws.org		WO #:		G		Water		6/3/25	
Project Name: RED-HILL/HBWS Sites Event Desc: RUSH Weekly Red Hill		Project #: 38001111		Sample Date		Sample Time		Sample Type	
Site: Hawaii		SSOW#:		1000		6/3/25		Water	
Sample Identification		Halawa Shaft Viewing Pool		6/3/25		1000		G	
TRIP BLANK		6/3/25		1000		G		Water	
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		Special Instructions/QC Requirements:	
Deliverable Requested I, II, III, IV, Other (specify)		Empty Kit Relinquished by		Date:		Time:		Method of Shipment:	
Relinquished by		Date/Time:		Company:		Received by:		Date/Time:	
Relinquished by		Date/Time:		Company:		Received by:		Date/Time:	
Relinquished by		Date/Time:		Company:		Received by:		Date/Time:	
Custody Seals Intact: ☐ Yes ☒ No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks:		751A 2.8°-0.0°=2.8°		Company: EEFAP	

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

Chain of Custody Record



Loc: 380

153989

[illegible]

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-153989-1

SDG Number: Weekly

Login Number: 153989

List Source: Eurofins Eaton Analytical Pomona

List Number: 1

Creator: Edrosa, Rey

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").	True	
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: 380-153989-1

SDG Number: Weekly

Login Number: 153989

List Number: 2

Creator: Khana, Piyush

List Source: Eurofins Calscience

List Creation: 06/06/25 12:42 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	