

ANALYTICAL REPORT

PREPARED FOR

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Generated 6/26/2025 9:04:03 PM

JOB DESCRIPTION

RED-HILL
Weekly: Halawa Shaft Viewing Pool

JOB NUMBER

380-155444-1

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



Authorized for release by
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Definitions/Glossary

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

Job ID: 380-155444-1
SDG: Weekly: Halawa Shaft Viewing Pool

Qualifiers

GC/MS Semi VOA

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

GC/MS Semi VOA TICs

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

Glossary

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

Case Narrative

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

Job ID: 380-155444-1

Job ID: 380-155444-1

Eurofins Eaton Analytical Pomona

Job Narrative 380-155444-1

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 6/13/2025 10:04 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 570-585297. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

Method 625.1_SIM: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 570-585297. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

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.

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Detection Summary

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

Job ID: 380-155444-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: Halawa Shaft Viewing Pool

Lab Sample ID: 380-155444-1

☐ No Detections.

Client Sample ID: TRIP BLANK

Lab Sample ID: 380-155444-2

☐ 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: 380-155444-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: Halawa Shaft Viewing Pool

Lab Sample ID: 380-155444-1

Date Collected: 06/10/25 10:00

Matrix: Water

Date Received: 06/13/25 10:04

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		06/16/25 14:24	06/17/25 18:30	1
2,4'-DDD	<0.10		0.10	ug/L		06/16/25 14:24	06/17/25 18:30	1
2,4'-DDE	<0.10		0.10	ug/L		06/16/25 14:24	06/17/25 18:30	1
2,4'-DDT	<0.10		0.10	ug/L		06/16/25 14:24	06/17/25 18:30	1
2,4-Dinitrotoluene	<0.10		0.10	ug/L		06/16/25 14:24	06/17/25 18:30	1
2,6-Dinitrotoluene	<0.10		0.10	ug/L		06/16/25 14:24	06/17/25 18:30	1
2-Methylnaphthalene	<0.10		0.10	ug/L		06/16/25 14:24	06/17/25 18:30	1
4,4'-DDD	<0.10		0.10	ug/L		06/16/25 14:24	06/17/25 18:30	1
4,4'-DDE	<0.10		0.10	ug/L		06/16/25 14:24	06/17/25 18:30	1
4,4'-DDT	<0.10		0.10	ug/L		06/16/25 14:24	06/17/25 18:30	1
Acenaphthene	<0.10		0.10	ug/L		06/16/25 14:24	06/17/25 18:30	1
Acenaphthylene	<0.10		0.10	ug/L		06/16/25 14:24	06/17/25 18:30	1
Acetochlor	<0.10		0.10	ug/L		06/16/25 14:24	06/17/25 18:30	1
Alachlor	<0.050		0.050	ug/L		06/16/25 14:24	06/17/25 18:30	1
alpha-BHC	<0.10		0.10	ug/L		06/16/25 14:24	06/17/25 18:30	1
alpha-Chlordane	<0.050		0.050	ug/L		06/16/25 14:24	06/17/25 18:30	1
Anthracene	<0.020		0.020	ug/L		06/16/25 14:24	06/17/25 18:30	1
Atrazine	<0.050		0.050	ug/L		06/16/25 14:24	06/17/25 18:30	1
Benz(a)anthracene	<0.050		0.050	ug/L		06/16/25 14:24	06/17/25 18:30	1
Benzo[a]pyrene	<0.020		0.020	ug/L		06/16/25 14:24	06/17/25 18:30	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		06/16/25 14:24	06/17/25 18:30	1
Benzo[g,h,i]perylene	<0.050		0.050	ug/L		06/16/25 14:24	06/17/25 18:30	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		06/16/25 14:24	06/17/25 18:30	1
beta-BHC	<0.10		0.10	ug/L		06/16/25 14:24	06/17/25 18:30	1
Bis(2-ethylhexyl) phthalate	<0.60		0.60	ug/L		06/16/25 14:24	06/17/25 18:30	1
Bromacil	<0.10		0.10	ug/L		06/16/25 14:24	06/17/25 18:30	1
Butachlor	<0.050		0.050	ug/L		06/16/25 14:24	06/17/25 18:30	1
Butylbenzylphthalate	<0.50		0.50	ug/L		06/16/25 14:24	06/17/25 18:30	1
Chlorobenzilate	<0.10		0.10	ug/L		06/16/25 14:24	06/17/25 18:30	1
Chloroneb	<0.10		0.10	ug/L		06/16/25 14:24	06/17/25 18:30	1
Chlorothalonil (Draconil, Bravo)	<0.10		0.10	ug/L		06/16/25 14:24	06/17/25 18:30	1
Chlorpyrifos	<0.050		0.050	ug/L		06/16/25 14:24	06/17/25 18:30	1
Chrysene	<0.020		0.020	ug/L		06/16/25 14:24	06/17/25 18:30	1
delta-BHC	<0.10		0.10	ug/L		06/16/25 14:24	06/17/25 18:30	1
Di(2-ethylhexyl)adipate	<0.60		0.60	ug/L		06/16/25 14:24	06/17/25 18:30	1
Dibenz(a,h)anthracene	<0.050		0.050	ug/L		06/16/25 14:24	06/17/25 18:30	1
Diclorvos (DDVP)	<0.050		0.050	ug/L		06/16/25 14:24	06/17/25 18:30	1
Dieldrin	<0.010		0.010	ug/L		06/16/25 14:24	06/17/25 18:30	1
Diethylphthalate	<0.50		0.50	ug/L		06/16/25 14:24	06/17/25 18:30	1
Dimethylphthalate	<0.50		0.50	ug/L		06/16/25 14:24	06/17/25 18:30	1
Di-n-butyl phthalate	<1.0		1.0	ug/L		06/16/25 14:24	06/17/25 18:30	1
Di-n-octyl phthalate	<0.10		0.10	ug/L		06/16/25 14:24	06/17/25 18:30	1
Endosulfan I (Alpha)	<0.10		0.10	ug/L		06/16/25 14:24	06/17/25 18:30	1
Endosulfan II (Beta)	<0.10		0.10	ug/L		06/16/25 14:24	06/17/25 18:30	1
Endosulfan sulfate	<0.10		0.10	ug/L		06/16/25 14:24	06/17/25 18:30	1
Endrin	<0.010		0.010	ug/L		06/16/25 14:24	06/17/25 18:30	1
Endrin aldehyde	<0.10		0.10	ug/L		06/16/25 14:24	06/17/25 18:30	1
EPTC	<0.10		0.10	ug/L		06/16/25 14:24	06/17/25 18:30	1
Fluoranthene	<0.10		0.10	ug/L		06/16/25 14:24	06/17/25 18:30	1

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Client Sample Results

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

Job ID: 380-155444-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: Halawa Shaft Viewing Pool

Lab Sample ID: 380-155444-1

Date Collected: 06/10/25 10:00

Matrix: Water

Date Received: 06/13/25 10:04

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		06/16/25 14:24	06/17/25 18:30	1
gamma-Chlordane	<0.050		0.050	ug/L		06/16/25 14:24	06/17/25 18:30	1
Heptachlor	<0.010		0.010	ug/L		06/16/25 14:24	06/17/25 18:30	1
Heptachlor epoxide (isomer B)	<0.010		0.010	ug/L		06/16/25 14:24	06/17/25 18:30	1
Hexachlorobenzene	<0.050		0.050	ug/L		06/16/25 14:24	06/17/25 18:30	1
Hexachlorocyclopentadiene	<0.050		0.050	ug/L		06/16/25 14:24	06/17/25 18:30	1
Indeno[1,2,3-cd]pyrene	<0.050		0.050	ug/L		06/16/25 14:24	06/17/25 18:30	1
Isophorone	<0.10		0.10	ug/L		06/16/25 14:24	06/17/25 18:30	1
Lindane	<0.010		0.010	ug/L		06/16/25 14:24	06/17/25 18:30	1
Malathion	<0.10		0.10	ug/L		06/16/25 14:24	06/17/25 18:30	1
Methoxychlor	<0.050		0.050	ug/L		06/16/25 14:24	06/17/25 18:30	1
Metolachlor	<0.050		0.050	ug/L		06/16/25 14:24	06/17/25 18:30	1
Molinate	<0.10		0.10	ug/L		06/16/25 14:24	06/17/25 18:30	1
Naphthalene	<0.10		0.10	ug/L		06/16/25 14:24	06/17/25 18:30	1
Parathion	<0.10		0.10	ug/L		06/16/25 14:24	06/17/25 18:30	1
Pendimethalin (Penoxaline)	<0.10		0.10	ug/L		06/16/25 14:24	06/17/25 18:30	1
Phenanthrene	<0.040		0.040	ug/L		06/16/25 14:24	06/17/25 18:30	1
Propachlor	<0.050		0.050	ug/L		06/16/25 14:24	06/17/25 18:30	1
Pyrene	<0.050		0.050	ug/L		06/16/25 14:24	06/17/25 18:30	1
Simazine	<0.050		0.050	ug/L		06/16/25 14:24	06/17/25 18:30	1
Terbacil	<0.10		0.10	ug/L		06/16/25 14:24	06/17/25 18:30	1
Terbutylazine	<0.10		0.10	ug/L		06/16/25 14:24	06/17/25 18:30	1
Thiobencarb	<0.10		0.10	ug/L		06/16/25 14:24	06/17/25 18:30	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		06/16/25 14:24	06/17/25 18:30	1
trans-Nonachlor	<0.050		0.050	ug/L		06/16/25 14:24	06/17/25 18:30	1
Trifluralin	<0.10		0.10	ug/L		06/16/25 14:24	06/17/25 18:30	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	06/16/25 14:24	06/17/25 18:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	98		70 - 130	06/16/25 14:24	06/17/25 18:30	1
Perylene-d12	93		70 - 130	06/16/25 14:24	06/17/25 18:30	1
Triphenylphosphate	108		70 - 130	06/16/25 14:24	06/17/25 18:30	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		06/17/25 12:23	06/20/25 15:51	1
2-Methylnaphthalene	<0.20		0.20	ug/L		06/17/25 12:23	06/20/25 15:51	1
Acenaphthene	<0.20		0.20	ug/L		06/17/25 12:23	06/20/25 15:51	1
Acenaphthylene	<0.20		0.20	ug/L		06/17/25 12:23	06/20/25 15:51	1
Anthracene	<0.20		0.20	ug/L		06/17/25 12:23	06/20/25 15:51	1
Benzo[a]anthracene	<0.20		0.20	ug/L		06/17/25 12:23	06/20/25 15:51	1
Benzo[a]pyrene	<0.20		0.20	ug/L		06/17/25 12:23	06/20/25 15:51	1
Benzo[b]fluoranthene	<0.20		0.20	ug/L		06/17/25 12:23	06/20/25 15:51	1
Benzo[g,h,i]perylene	<0.20		0.20	ug/L		06/17/25 12:23	06/20/25 15:51	1
Benzo[k]fluoranthene	<0.20		0.20	ug/L		06/17/25 12:23	06/20/25 15:51	1
Chrysene	<0.20		0.20	ug/L		06/17/25 12:23	06/20/25 15:51	1
Dibenz(a,h)anthracene	<0.20		0.20	ug/L		06/17/25 12:23	06/20/25 15:51	1
Fluoranthene	<0.20		0.20	ug/L		06/17/25 12:23	06/20/25 15:51	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-155444-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: Halawa Shaft Viewing Pool

Lab Sample ID: 380-155444-1

Date Collected: 06/10/25 10:00

Matrix: Water

Date Received: 06/13/25 10:04

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		06/17/25 12:23	06/20/25 15:51	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20	ug/L		06/17/25 12:23	06/20/25 15:51	1
Naphthalene	<0.20		0.20	ug/L		06/17/25 12:23	06/20/25 15:51	1
Phenanthrene	<0.20		0.20	ug/L		06/17/25 12:23	06/20/25 15:51	1
Pyrene	<0.20		0.20	ug/L		06/17/25 12:23	06/20/25 15:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	91		28 - 127	06/17/25 12:23	06/20/25 15:51	1
2-Fluorobiphenyl (Surr)	76		31 - 120	06/17/25 12:23	06/20/25 15:51	1
2-Fluorophenol (Surr)	47		17 - 120	06/17/25 12:23	06/20/25 15:51	1
Nitrobenzene-d5 (Surr)	74		27 - 120	06/17/25 12:23	06/20/25 15:51	1
Phenol-d6 (Surr)	30		10 - 120	06/17/25 12:23	06/20/25 15:51	1
p-Terphenyl-d14 (Surr)	87		45 - 120	06/17/25 12:23	06/20/25 15:51	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
Hexane, 2,3-dimethyl-	7.9	T J N	ug/L		3.08	584-94-1	06/17/25 12:23	06/26/25 14:09	1
Cyclohexane, 1-ethyl-2-methyl-, cis-	8.3	T J N	ug/L		3.21	4923-77-7	06/17/25 12:23	06/26/25 14:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	66		33 - 139	06/17/25 12:23	06/26/25 14:09	1
2-Fluorobiphenyl (Surr)	72		33 - 126	06/17/25 12:23	06/26/25 14:09	1
2-Fluorophenol (Surr)	48		12 - 120	06/17/25 12:23	06/26/25 14:09	1
Nitrobenzene-d5 (Surr)	79		36 - 120	06/17/25 12:23	06/26/25 14:09	1
Phenol-d6 (Surr)	26		10 - 120	06/17/25 12:23	06/26/25 14:09	1
p-Terphenyl-d14 (Surr)	77		47 - 131	06/17/25 12:23	06/26/25 14:09	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			06/21/25 21:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	75		38 - 134		06/21/25 21:03	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		06/16/25 09:11	06/17/25 17:18	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		06/16/25 09:11	06/17/25 17:18	1
C8-C18	<25		25	ug/L		06/16/25 09:11	06/17/25 17:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	92		60 - 130	06/16/25 09:11	06/17/25 17:18	1

Client Sample ID: TRIP BLANK

Lab Sample ID: 380-155444-2

Date Collected: 06/10/25 10:00

Matrix: Water

Date Received: 06/13/25 10:04

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			06/21/25 16:34	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-155444-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: TRIP BLANK
Date Collected: 06/10/25 10:00
Date Received: 06/13/25 10:04

Lab Sample ID: 380-155444-2
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	76		38 - 134		06/21/25 16:34	1

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- 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: 380-155444-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: Halawa Shaft Viewing Pool

Lab Sample ID: 380-155444-1

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: 380-155444-1
SDG: Weekly: Halawa Shaft Viewing Pool

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)
380-153683-AV-1-A MSD	Matrix Spike Duplicate	97	97	114
380-153683-AX-1-A MS	Matrix Spike	97	95	110
380-155444-1	Halawa Shaft Viewing Pool	98	93	108
LCS 380-158163/23-A	Lab Control Sample	97	96	114
MB 380-158163/21-A	Method Blank	97	92	112
MRL 380-158163/22-A	Lab Control Sample	97	92	107

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)
380-155444-1	Halawa Shaft Viewing Pool	66	72	48	79	26	77
MB 570-585297/1-A	Method Blank	62	84	53	92	31	80

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)
380-155444-1	Halawa Shaft Viewing Pool	91	76	47	74	30	87
LCS 570-585297/2-A	Lab Control Sample	92	74	52	64	34	86
LCSD 570-585297/3-A	Lab Control Sample Dup	96	81	59	69	39	91
MB 570-585297/1-A	Method Blank	106	83	56	86	35	87

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: 380-155444-1
SDG: Weekly: Halawa Shaft Viewing Pool

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)
380-154969-C-2 MS	Matrix Spike	97
380-154969-C-2 MSD	Matrix Spike Duplicate	100
380-155444-1	Halawa Shaft Viewing Pool	75
380-155444-2	TRIP BLANK	76
LCS 570-587470/1008	Lab Control Sample	95
LCSD 570-587470/9	Lab Control Sample Dup	90
MB 570-587470/10	Method Blank	63
MRL 570-587470/1003	Lab Control Sample	73

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)
380-154969-B-2-A MS	Matrix Spike	106
380-154969-B-2-B MSD	Matrix Spike Duplicate	104
380-155444-1	Halawa Shaft Viewing Pool	92
LCS 570-584549/2-A	Lab Control Sample	108
LCSD 570-584549/3-A	Lab Control Sample Dup	113
MB 570-584549/1-A	Method Blank	107
MRL 570-584549/4-A	Lab Control Sample	107

Surrogate Legend

OTCSN = n-Octacosane (Surr)

QC Sample Results

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

Job ID: 380-155444-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MB 380-158163/21-A

Matrix: Water

Analysis Batch: 158381

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 158163

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.098		0.098	ug/L		06/16/25 14:24	06/17/25 14:02	1
2,4'-DDD	<0.098		0.098	ug/L		06/16/25 14:24	06/17/25 14:02	1
2,4'-DDE	<0.098		0.098	ug/L		06/16/25 14:24	06/17/25 14:02	1
2,4'-DDT	<0.098		0.098	ug/L		06/16/25 14:24	06/17/25 14:02	1
2,4-Dinitrotoluene	<0.098		0.098	ug/L		06/16/25 14:24	06/17/25 14:02	1
2,6-Dinitrotoluene	<0.098		0.098	ug/L		06/16/25 14:24	06/17/25 14:02	1
2-Methylnaphthalene	<0.098		0.098	ug/L		06/16/25 14:24	06/17/25 14:02	1
4,4'-DDD	<0.098		0.098	ug/L		06/16/25 14:24	06/17/25 14:02	1
4,4'-DDE	<0.098		0.098	ug/L		06/16/25 14:24	06/17/25 14:02	1
4,4'-DDT	<0.098		0.098	ug/L		06/16/25 14:24	06/17/25 14:02	1
Acenaphthene	<0.098		0.098	ug/L		06/16/25 14:24	06/17/25 14:02	1
Acenaphthylene	<0.098		0.098	ug/L		06/16/25 14:24	06/17/25 14:02	1
Acetochlor	<0.098		0.098	ug/L		06/16/25 14:24	06/17/25 14:02	1
Alachlor	<0.049		0.049	ug/L		06/16/25 14:24	06/17/25 14:02	1
alpha-BHC	<0.098		0.098	ug/L		06/16/25 14:24	06/17/25 14:02	1
alpha-Chlordane	<0.049		0.049	ug/L		06/16/25 14:24	06/17/25 14:02	1
Anthracene	<0.020		0.020	ug/L		06/16/25 14:24	06/17/25 14:02	1
Atrazine	<0.049		0.049	ug/L		06/16/25 14:24	06/17/25 14:02	1
Benz(a)anthracene	<0.049		0.049	ug/L		06/16/25 14:24	06/17/25 14:02	1
Benzo[a]pyrene	<0.020		0.020	ug/L		06/16/25 14:24	06/17/25 14:02	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		06/16/25 14:24	06/17/25 14:02	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		06/16/25 14:24	06/17/25 14:02	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		06/16/25 14:24	06/17/25 14:02	1
beta-BHC	<0.098		0.098	ug/L		06/16/25 14:24	06/17/25 14:02	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		06/16/25 14:24	06/17/25 14:02	1
Bromacil	<0.098		0.098	ug/L		06/16/25 14:24	06/17/25 14:02	1
Butachlor	<0.049		0.049	ug/L		06/16/25 14:24	06/17/25 14:02	1
Butylbenzylphthalate	<0.49		0.49	ug/L		06/16/25 14:24	06/17/25 14:02	1
Chlorobenzilate	<0.098		0.098	ug/L		06/16/25 14:24	06/17/25 14:02	1
Chloroneb	<0.098		0.098	ug/L		06/16/25 14:24	06/17/25 14:02	1
Chlorothalonil (Draconil, Bravo)	<0.098		0.098	ug/L		06/16/25 14:24	06/17/25 14:02	1
Chlorpyrifos	<0.049		0.049	ug/L		06/16/25 14:24	06/17/25 14:02	1
Chrysene	<0.020		0.020	ug/L		06/16/25 14:24	06/17/25 14:02	1
delta-BHC	<0.098		0.098	ug/L		06/16/25 14:24	06/17/25 14:02	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		06/16/25 14:24	06/17/25 14:02	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		06/16/25 14:24	06/17/25 14:02	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		06/16/25 14:24	06/17/25 14:02	1
Dieldrin	<0.0098		0.0098	ug/L		06/16/25 14:24	06/17/25 14:02	1
Diethylphthalate	<0.49		0.49	ug/L		06/16/25 14:24	06/17/25 14:02	1
Dimethylphthalate	<0.49		0.49	ug/L		06/16/25 14:24	06/17/25 14:02	1
Di-n-butyl phthalate	<0.98		0.98	ug/L		06/16/25 14:24	06/17/25 14:02	1
Di-n-octyl phthalate	<0.098		0.098	ug/L		06/16/25 14:24	06/17/25 14:02	1
Endosulfan I (Alpha)	<0.098		0.098	ug/L		06/16/25 14:24	06/17/25 14:02	1
Endosulfan II (Beta)	<0.098		0.098	ug/L		06/16/25 14:24	06/17/25 14:02	1
Endosulfan sulfate	<0.098		0.098	ug/L		06/16/25 14:24	06/17/25 14:02	1
Endrin	<0.0098		0.0098	ug/L		06/16/25 14:24	06/17/25 14:02	1
Endrin aldehyde	<0.098		0.098	ug/L		06/16/25 14:24	06/17/25 14:02	1
EPTC	<0.098		0.098	ug/L		06/16/25 14:24	06/17/25 14:02	1

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QC Sample Results

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

Job ID: 380-155444-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MB 380-158163/21-A

Matrix: Water

Analysis Batch: 158381

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 158163

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.098		0.098	ug/L		06/16/25 14:24	06/17/25 14:02	1
Fluorene	<0.049		0.049	ug/L		06/16/25 14:24	06/17/25 14:02	1
gamma-Chlordane	<0.049		0.049	ug/L		06/16/25 14:24	06/17/25 14:02	1
Heptachlor	<0.0098		0.0098	ug/L		06/16/25 14:24	06/17/25 14:02	1
Heptachlor epoxide (isomer B)	<0.0098		0.0098	ug/L		06/16/25 14:24	06/17/25 14:02	1
Hexachlorobenzene	<0.049		0.049	ug/L		06/16/25 14:24	06/17/25 14:02	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		06/16/25 14:24	06/17/25 14:02	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		06/16/25 14:24	06/17/25 14:02	1
Isophorone	<0.098		0.098	ug/L		06/16/25 14:24	06/17/25 14:02	1
Lindane	<0.0098		0.0098	ug/L		06/16/25 14:24	06/17/25 14:02	1
Malathion	<0.098		0.098	ug/L		06/16/25 14:24	06/17/25 14:02	1
Methoxychlor	<0.049		0.049	ug/L		06/16/25 14:24	06/17/25 14:02	1
Metolachlor	<0.049		0.049	ug/L		06/16/25 14:24	06/17/25 14:02	1
Molinate	<0.098		0.098	ug/L		06/16/25 14:24	06/17/25 14:02	1
Naphthalene	<0.098		0.098	ug/L		06/16/25 14:24	06/17/25 14:02	1
Parathion	<0.098		0.098	ug/L		06/16/25 14:24	06/17/25 14:02	1
Pendimethalin (Penoxaline)	<0.098		0.098	ug/L		06/16/25 14:24	06/17/25 14:02	1
Phenanthrene	<0.039		0.039	ug/L		06/16/25 14:24	06/17/25 14:02	1
Propachlor	<0.049		0.049	ug/L		06/16/25 14:24	06/17/25 14:02	1
Pyrene	<0.049		0.049	ug/L		06/16/25 14:24	06/17/25 14:02	1
Simazine	<0.049		0.049	ug/L		06/16/25 14:24	06/17/25 14:02	1
Terbacil	<0.098		0.098	ug/L		06/16/25 14:24	06/17/25 14:02	1
Terbutylazine	<0.098		0.098	ug/L		06/16/25 14:24	06/17/25 14:02	1
Thiobencarb	<0.098		0.098	ug/L		06/16/25 14:24	06/17/25 14:02	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		06/16/25 14:24	06/17/25 14:02	1
trans-Nonachlor	<0.049		0.049	ug/L		06/16/25 14:24	06/17/25 14:02	1
Trifluralin	<0.098		0.098	ug/L		06/16/25 14:24	06/17/25 14:02	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Cyclopentene, 1,2,3,4,5-pentamethyl-	1.06	T J N	ug/L		2.53	1000154-28-6	06/16/25 14:24	06/17/25 14:02	1
Decane	2.13	T J N	ug/L		2.79	124-18-5	06/16/25 14:24	06/17/25 14:02	1
Cyclohexasiloxane, dodecamethyl-	0.839	T J N	ug/L		3.89	540-97-6	06/16/25 14:24	06/17/25 14:02	1
9-Octadecenamide, (Z)-	0.962	T J N	ug/L		7.94	301-02-0	06/16/25 14:24	06/17/25 14:02	1
13-Docosenamide, (Z)-	1.46	T J N	ug/L		10.51	112-84-5	06/16/25 14:24	06/17/25 14:02	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	97		70 - 130	06/16/25 14:24	06/17/25 14:02	1
Perylene-d12	92		70 - 130	06/16/25 14:24	06/17/25 14:02	1
Triphenylphosphate	112		70 - 130	06/16/25 14:24	06/17/25 14:02	1

Lab Sample ID: LCS 380-158163/23-A

Matrix: Water

Analysis Batch: 158381

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 158163

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	1.96	1.90		ug/L		97	70 - 130
2,4'-DDD	1.96	2.32		ug/L		118	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-155444-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCS 380-158163/23-A

Matrix: Water

Analysis Batch: 158381

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 158163

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4'-DDE	1.96	2.15		ug/L		109	70 - 130
2,4'-DDT	1.96	2.06		ug/L		105	70 - 130
2,4-Dinitrotoluene	1.96	2.06		ug/L		105	70 - 130
2,6-Dinitrotoluene	1.96	1.78		ug/L		91	70 - 130
2-Methylnaphthalene	1.96	1.89		ug/L		96	70 - 130
4,4'-DDD	1.96	2.30		ug/L		117	70 - 130
4,4'-DDE	1.96	2.08		ug/L		106	70 - 130
4,4'-DDT	1.96	2.03		ug/L		103	70 - 130
Acenaphthene	1.96	1.87		ug/L		95	70 - 130
Acenaphthylene	1.96	1.88		ug/L		96	70 - 130
Acetochlor	1.96	2.18		ug/L		111	70 - 130
Alachlor	1.96	2.14		ug/L		109	70 - 130
alpha-BHC	1.96	2.01		ug/L		103	70 - 130
alpha-Chlordane	1.96	2.37		ug/L		121	70 - 130
Anthracene	1.96	1.92		ug/L		98	70 - 130
Atrazine	1.96	2.20		ug/L		112	70 - 130
Benz(a)anthracene	1.96	2.12		ug/L		108	70 - 130
Benzo[a]pyrene	1.96	2.14		ug/L		109	70 - 130
Benzo[b]fluoranthene	1.96	2.13		ug/L		109	70 - 130
Benzo[g,h,i]perylene	1.96	1.87		ug/L		95	70 - 130
Benzo[k]fluoranthene	1.96	2.06		ug/L		105	70 - 130
beta-BHC	1.96	2.11		ug/L		108	70 - 130
Bis(2-ethylhexyl) phthalate	1.96	1.84		ug/L		94	70 - 130
Bromacil	1.96	2.10		ug/L		107	70 - 130
Butachlor	1.96	2.11		ug/L		107	70 - 130
Butylbenzylphthalate	1.96	2.09		ug/L		107	70 - 130
Chlorobenzilate	1.96	2.05		ug/L		104	70 - 130
Chloroneb	1.96	2.03		ug/L		103	70 - 130
Chlorothalonil (Draconil, Bravo)	1.96	2.26		ug/L		115	70 - 130
Chlorpyrifos	1.96	2.17		ug/L		111	70 - 130
Chrysene	1.96	1.96		ug/L		100	70 - 130
delta-BHC	1.96	1.94		ug/L		99	70 - 130
Di(2-ethylhexyl)adipate	1.96	2.06		ug/L		105	70 - 130
Dibenz(a,h)anthracene	1.96	1.87		ug/L		95	70 - 130
Diclorvos (DDVP)	1.96	1.99		ug/L		101	70 - 130
Dieldrin	1.96	2.08		ug/L		106	70 - 130
Diethylphthalate	1.96	2.14		ug/L		109	70 - 130
Dimethylphthalate	1.96	2.04		ug/L		104	70 - 130
Di-n-butyl phthalate	3.93	5.01		ug/L		128	70 - 130
Di-n-octyl phthalate	1.96	1.98		ug/L		101	70 - 130
Endosulfan I (Alpha)	1.96	2.04		ug/L		104	70 - 130
Endosulfan II (Beta)	1.96	2.02		ug/L		103	70 - 130
Endosulfan sulfate	1.96	2.03		ug/L		103	70 - 130
Endrin	1.96	2.31		ug/L		118	70 - 130
Endrin aldehyde	1.96	2.13		ug/L		108	60 - 130
EPTC	1.96	2.06		ug/L		105	70 - 130
Fluoranthene	1.96	2.14		ug/L		109	70 - 130
Fluorene	1.96	1.98		ug/L		101	70 - 130
gamma-Chlordane	1.96	2.30		ug/L		117	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-155444-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCS 380-158163/23-A

Matrix: Water

Analysis Batch: 158381

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 158163

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Heptachlor	1.96	2.23		ug/L		113	70 - 130
Heptachlor epoxide (isomer B)	1.96	2.13		ug/L		109	70 - 130
Hexachlorobenzene	1.96	1.97		ug/L		100	70 - 130
Hexachlorocyclopentadiene	1.96	2.23		ug/L		113	70 - 130
Indeno[1,2,3-cd]pyrene	1.96	2.08		ug/L		106	70 - 130
Isophorone	1.96	2.09		ug/L		106	70 - 130
Lindane	1.96	2.17		ug/L		111	70 - 130
Malathion	1.96	2.09		ug/L		106	70 - 130
Methoxychlor	1.96	2.12		ug/L		108	70 - 130
Metolachlor	1.96	2.27		ug/L		116	70 - 130
Molinate	1.96	2.10		ug/L		107	70 - 130
Naphthalene	1.96	1.97		ug/L		100	70 - 130
Parathion	1.96	1.98		ug/L		101	70 - 130
Pendimethalin (Penoxaline)	1.96	2.30		ug/L		117	70 - 130
Phenanthrene	1.96	1.82		ug/L		92	70 - 130
Propachlor	1.96	2.07		ug/L		105	70 - 130
Pyrene	1.96	2.20		ug/L		112	70 - 130
Simazine	1.96	2.03		ug/L		103	70 - 130
Terbacil	1.96	2.09		ug/L		106	70 - 130
Terbutylazine	1.96	2.18		ug/L		111	70 - 130
Thiobencarb	1.96	2.16		ug/L		110	70 - 130
trans-Nonachlor	1.96	2.35		ug/L		120	70 - 130
Trifluralin	1.96	2.22		ug/L		113	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Nitro-m-xylene	97		70 - 130
Perylene-d12	96		70 - 130
Triphenylphosphate	114		70 - 130

Lab Sample ID: MRL 380-158163/22-A

Matrix: Water

Analysis Batch: 158381

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 158163

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	0.0984	0.119		ug/L		121	50 - 150
2,4'-DDD	0.0984	0.0941	J	ug/L		96	50 - 150
2,4'-DDE	0.0984	0.105		ug/L		106	50 - 150
2,4'-DDT	0.0984	0.121		ug/L		123	50 - 150
2,4-Dinitrotoluene	0.0984	0.124		ug/L		126	50 - 150
2,6-Dinitrotoluene	0.0984	0.131		ug/L		133	50 - 150
2-Methylnaphthalene	0.0984	0.111		ug/L		112	50 - 150
4,4'-DDD	0.0984	0.106		ug/L		108	50 - 150
4,4'-DDE	0.0984	0.0935	J	ug/L		95	50 - 150
4,4'-DDT	0.0984	0.124		ug/L		126	50 - 150
Acenaphthene	0.0984	0.0996		ug/L		101	50 - 150
Acenaphthylene	0.0984	0.0918	J	ug/L		93	50 - 150
Acetochlor	0.0984	0.110		ug/L		112	50 - 150
Alachlor	0.0492	0.0577		ug/L		117	50 - 150

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-155444-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MRL 380-158163/22-A

Matrix: Water

Analysis Batch: 158381

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 158163

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
alpha-BHC	0.0984	0.101		ug/L		102	50 - 150
alpha-Chlordane	0.0246	<0.029		ug/L		97	50 - 150
Anthracene	0.0197	0.0199	J	ug/L		101	50 - 150
Atrazine	0.0492	0.0577		ug/L		117	50 - 150
Benz(a)anthracene	0.0492	0.0579		ug/L		118	50 - 150
Benzo[a]pyrene	0.0197	0.0288		ug/L		146	50 - 150
Benzo[b]fluoranthene	0.0197	0.0274		ug/L		139	50 - 150
Benzo[g,h,i]perylene	0.0492	0.0538		ug/L		109	50 - 150
Benzo[k]fluoranthene	0.0197	0.0248		ug/L		126	50 - 150
beta-BHC	0.0984	0.110		ug/L		112	50 - 150
Bis(2-ethylhexyl) phthalate	0.591	0.527	J	ug/L		89	50 - 150
Bromacil	0.0984	0.124		ug/L		126	50 - 150
Butachlor	0.0492	0.0632		ug/L		128	50 - 150
Butylbenzylphthalate	0.492	0.545		ug/L		111	50 - 150
Chlorobenzilate	0.0984	0.111		ug/L		113	50 - 150
Chloroneb	0.0984	0.107		ug/L		109	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0984	0.0892	J	ug/L		91	50 - 150
Chlorpyrifos	0.0492	0.0511		ug/L		104	50 - 150
Chrysene	0.0197	0.0202		ug/L		103	50 - 150
delta-BHC	0.0984	0.0939	J	ug/L		95	50 - 150
Di(2-ethylhexyl)adipate	0.591	0.623		ug/L		106	50 - 150
Dibenz(a,h)anthracene	0.0492	0.0582		ug/L		118	50 - 150
Diclorvos (DDVP)	0.0492	0.0608		ug/L		124	50 - 150
Dieldrin	0.00984	0.00997		ug/L		101	50 - 150
Diethylphthalate	0.492	0.552		ug/L		112	50 - 150
Dimethylphthalate	0.492	0.519		ug/L		106	50 - 150
Di-n-butyl phthalate	0.492	0.747	J	ug/L		152	49 - 243
Di-n-octyl phthalate	0.0984	0.0930	J	ug/L		95	50 - 150
Endosulfan I (Alpha)	0.0984	0.0754	J	ug/L		77	50 - 150
Endosulfan II (Beta)	0.0984	0.0881	J	ug/L		90	50 - 150
Endosulfan sulfate	0.0984	0.119		ug/L		121	50 - 150
Endrin	0.00984	0.0102		ug/L		104	50 - 150
Endrin aldehyde	0.0984	0.116		ug/L		118	50 - 150
EPTC	0.0984	0.0974	J	ug/L		99	50 - 150
Fluoranthene	0.0984	0.101		ug/L		103	50 - 150
Fluorene	0.0492	0.0507		ug/L		103	50 - 150
gamma-Chlordane	0.0246	0.0270	J	ug/L		110	50 - 150
Heptachlor	0.00984	0.0111		ug/L		112	50 - 150
Heptachlor epoxide (isomer B)	0.00984	0.00919	J	ug/L		93	50 - 150
Hexachlorobenzene	0.0492	0.0522		ug/L		106	50 - 150
Hexachlorocyclopentadiene	0.0492	0.0576		ug/L		117	50 - 150
Indeno[1,2,3-cd]pyrene	0.0492	0.0610		ug/L		124	50 - 150
Isophorone	0.0984	0.125		ug/L		127	50 - 150
Lindane	0.00984	0.0131		ug/L		134	50 - 150
Malathion	0.0984	0.114		ug/L		116	50 - 150
Methoxychlor	0.0492	0.0598		ug/L		122	50 - 150
Metolachlor	0.0492	0.0604		ug/L		123	50 - 150
Molinate	0.0984	0.106		ug/L		107	50 - 150
Naphthalene	0.0984	0.102		ug/L		104	50 - 150

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-155444-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MRL 380-158163/22-A

Matrix: Water

Analysis Batch: 158381

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 158163

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Parathion	0.0984	0.103		ug/L		105	50 - 150
Pendimethalin (Penoxaline)	0.0984	0.126		ug/L		128	50 - 150
Phenanthrene	0.0394	0.0408		ug/L		104	50 - 150
Propachlor	0.0492	0.0563		ug/L		114	50 - 150
Pyrene	0.0492	0.0506		ug/L		103	50 - 150
Simazine	0.0492	0.0626		ug/L		127	50 - 150
Terbacil	0.0984	0.121		ug/L		123	50 - 150
Terbutylazine	0.0984	0.110		ug/L		112	50 - 150
Thiobencarb	0.0984	0.101		ug/L		103	50 - 150
trans-Nonachlor	0.0246	0.0273	J	ug/L		111	50 - 150
Trifluralin	0.0984	0.125		ug/L		127	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
2-Nitro-m-xylene	97		70 - 130
Perylene-d12	92		70 - 130
Triphenylphosphate	107		70 - 130

Lab Sample ID: 380-153683-AV-1-A MSD

Matrix: Water

Analysis Batch: 158381

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 158163

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	<0.098		1.98	1.92		ug/L		96	70 - 130	2	20
2,4'-DDD	<0.098		1.98	2.30		ug/L		116	70 - 130	1	20
2,4'-DDE	<0.098		1.98	2.12		ug/L		107	70 - 130	0	20
2,4'-DDT	<0.098		1.98	2.06		ug/L		104	70 - 130	1	20
2,4-Dinitrotoluene	<0.098		1.98	2.27		ug/L		115	70 - 130	6	20
2,6-Dinitrotoluene	<0.098		1.98	1.94		ug/L		98	70 - 130	5	20
2-Methylnaphthalene	<0.098		1.98	1.92		ug/L		96	70 - 130	1	20
4,4'-DDD	<0.098		1.98	2.29		ug/L		116	70 - 130	2	20
4,4'-DDE	<0.098		1.98	2.08		ug/L		105	70 - 130	0	20
4,4'-DDT	<0.098		1.98	2.02		ug/L		102	70 - 130	1	20
Acenaphthene	<0.098		1.98	1.88		ug/L		95	70 - 130	1	20
Acenaphthylene	<0.098		1.98	1.90		ug/L		96	70 - 130	4	20
Acetochlor	<0.098		1.98	2.15		ug/L		109	70 - 130	1	20
Alachlor	<0.049		1.98	2.13		ug/L		108	70 - 130	0	20
alpha-BHC	<0.098		1.98	1.98		ug/L		100	70 - 130	0	20
alpha-Chlordane	<0.049		1.98	2.37		ug/L		120	70 - 130	3	20
Anthracene	<0.020		1.98	1.78		ug/L		90	70 - 130	1	20
Atrazine	<0.049		1.98	2.20		ug/L		111	70 - 130	1	20
Benz(a)anthracene	<0.049		1.98	2.12		ug/L		107	70 - 130	2	20
Benzo[a]pyrene	<0.020		1.98	2.12		ug/L		107	70 - 130	1	20
Benzo[b]fluoranthene	<0.020		1.98	2.21		ug/L		112	70 - 130	0	20
Benzo[g,h,i]perylene	<0.049		1.98	1.80		ug/L		91	70 - 130	4	20
Benzo[k]fluoranthene	<0.020		1.98	2.07		ug/L		105	70 - 130	1	20
beta-BHC	<0.098		1.98	2.04		ug/L		103	70 - 130	2	20
Bis(2-ethylhexyl) phthalate	<0.59		1.98	1.78		ug/L		90	70 - 130	6	20
Bromacil	<0.098		1.98	2.16		ug/L		109	70 - 130	5	20

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-155444-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: 380-153683-AV-1-A MSD

Matrix: Water

Analysis Batch: 158381

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 158163

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Butachlor	<0.049		1.98	2.12		ug/L		107	70 - 130	2	20
Butylbenzylphthalate	<0.49		1.98	2.13		ug/L		107	70 - 130	3	20
Chlorobenzilate	<0.098		1.98	2.05		ug/L		104	70 - 130	2	20
Chloroneb	<0.098		1.98	1.97		ug/L		99	70 - 130	0	20
Chlorothalonil (Draconil, Bravo)	<0.098		1.98	2.24		ug/L		113	70 - 130	2	20
Chlorpyrifos	<0.049		1.98	2.15		ug/L		109	70 - 130	1	20
Chrysene	<0.020		1.98	1.99		ug/L		101	70 - 130	0	20
delta-BHC	<0.098		1.98	1.95		ug/L		99	70 - 130	1	20
Di(2-ethylhexyl)adipate	<0.59		1.98	2.01		ug/L		101	70 - 130	1	20
Dibenz(a,h)anthracene	<0.049		1.98	1.87		ug/L		95	70 - 130	3	20
Diclorvos (DDVP)	<0.049		1.98	2.02		ug/L		102	70 - 130	2	20
Dieldrin	<0.0098		1.98	2.13		ug/L		107	70 - 130	3	20
Diethylphthalate	<0.49		1.98	2.10		ug/L		106	70 - 130	1	20
Dimethylphthalate	<0.49		1.98	2.02		ug/L		102	70 - 130	0	20
Di-n-butyl phthalate	<0.98		3.96	4.99		ug/L		121	70 - 130	3	20
Di-n-octyl phthalate	<0.098		1.98	1.90		ug/L		96	70 - 130	6	20
Endosulfan I (Alpha)	<0.098		1.98	2.03		ug/L		102	70 - 130	1	20
Endosulfan II (Beta)	<0.098		1.98	2.01		ug/L		102	70 - 130	2	20
Endosulfan sulfate	<0.098		1.98	2.02		ug/L		102	70 - 130	2	20
Endrin	<0.0098		1.98	2.34		ug/L		118	70 - 130	2	20
Endrin aldehyde	<0.098		1.98	1.83		ug/L		92	60 - 130	11	20
EPTC	<0.098		1.98	2.05		ug/L		104	70 - 130	0	20
Fluoranthene	<0.098		1.98	2.19		ug/L		110	70 - 130	2	20
Fluorene	<0.049		1.98	1.98		ug/L		100	70 - 130	1	20
gamma-Chlordane	<0.049		1.98	2.31		ug/L		117	70 - 130	2	20
Heptachlor	<0.0098		1.98	2.25		ug/L		114	70 - 130	2	20
Heptachlor epoxide (isomer B)	<0.0098		1.98	2.16		ug/L		109	70 - 130	2	20
Hexachlorobenzene	<0.049		1.98	2.01		ug/L		102	70 - 130	1	20
Hexachlorocyclopentadiene	<0.049		1.98	2.26		ug/L		114	70 - 130	0	20
Indeno[1,2,3-cd]pyrene	<0.049		1.98	2.07		ug/L		105	70 - 130	3	20
Isophorone	<0.098		1.98	2.15		ug/L		108	70 - 130	0	20
Lindane	<0.0098		1.98	2.15		ug/L		108	70 - 130	1	20
Malathion	<0.098		1.98	2.11		ug/L		107	70 - 130	2	20
Methoxychlor	<0.049		1.98	2.19		ug/L		111	70 - 130	2	20
Metolachlor	<0.049		1.98	2.25		ug/L		114	70 - 130	2	20
Molinate	<0.098		1.98	2.10		ug/L		106	70 - 130	1	20
Naphthalene	<0.098		1.98	2.02		ug/L		102	70 - 130	2	20
Parathion	<0.098		1.98	2.02		ug/L		102	70 - 130	3	20
Pendimethalin (Penoxaline)	<0.098		1.98	2.37		ug/L		120	70 - 130	2	20
Phenanthrene	<0.039		1.98	1.83		ug/L		92	70 - 130	0	20
Propachlor	<0.049		1.98	2.07		ug/L		105	70 - 130	2	20
Pyrene	<0.049		1.98	2.22		ug/L		112	70 - 130	2	20
Simazine	<0.049		1.98	2.03		ug/L		103	70 - 130	3	20
Terbacil	<0.098		1.98	2.17		ug/L		110	70 - 130	5	20
Terbutylazine	<0.098		1.98	2.14		ug/L		108	70 - 130	3	20
Thiobencarb	<0.098		1.98	2.15		ug/L		109	70 - 130	2	20
trans-Nonachlor	<0.049		1.98	2.39		ug/L		121	70 - 130	2	20
Trifluralin	<0.098		1.98	2.23		ug/L		113	70 - 130	0	20

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-155444-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: 380-153683-AV-1-A MSD

Matrix: Water

Analysis Batch: 158381

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 158163

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Nitro-m-xylene	97		70 - 130
Perylene-d12	97		70 - 130
Triphenylphosphate	114		70 - 130

Lab Sample ID: 380-153683-AX-1-A MS

Matrix: Water

Analysis Batch: 158381

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 158163

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.098		1.97	1.88		ug/L		95	70 - 130
2,4'-DDD	<0.098		1.97	2.27		ug/L		115	70 - 130
2,4'-DDE	<0.098		1.97	2.11		ug/L		107	70 - 130
2,4'-DDT	<0.098		1.97	2.04		ug/L		103	70 - 130
2,4-Dinitrotoluene	<0.098		1.97	2.13		ug/L		108	70 - 130
2,6-Dinitrotoluene	<0.098		1.97	1.84		ug/L		93	70 - 130
2-Methylnaphthalene	<0.098		1.97	1.91		ug/L		96	70 - 130
4,4'-DDD	<0.098		1.97	2.26		ug/L		115	70 - 130
4,4'-DDE	<0.098		1.97	2.07		ug/L		105	70 - 130
4,4'-DDT	<0.098		1.97	2.01		ug/L		102	70 - 130
Acenaphthene	<0.098		1.97	1.87		ug/L		95	70 - 130
Acenaphthylene	<0.098		1.97	1.98		ug/L		100	70 - 130
Acetochlor	<0.098		1.97	2.18		ug/L		110	70 - 130
Alachlor	<0.049		1.97	2.13		ug/L		108	70 - 130
alpha-BHC	<0.098		1.97	1.99		ug/L		101	70 - 130
alpha-Chlordane	<0.049		1.97	2.30		ug/L		116	70 - 130
Anthracene	<0.020		1.97	1.76		ug/L		89	70 - 130
Atrazine	<0.049		1.97	2.17		ug/L		110	70 - 130
Benz(a)anthracene	<0.049		1.97	2.09		ug/L		106	70 - 130
Benzo[a]pyrene	<0.020		1.97	2.09		ug/L		106	70 - 130
Benzo[b]fluoranthene	<0.020		1.97	2.21		ug/L		112	70 - 130
Benzo[g,h,i]perylene	<0.049		1.97	1.86		ug/L		95	70 - 130
Benzo[k]fluoranthene	<0.020		1.97	2.10		ug/L		106	70 - 130
beta-BHC	<0.098		1.97	2.00		ug/L		102	70 - 130
Bis(2-ethylhexyl) phthalate	<0.59		1.97	1.89		ug/L		96	70 - 130
Bromacil	<0.098		1.97	2.06		ug/L		105	70 - 130
Butachlor	<0.049		1.97	2.09		ug/L		106	70 - 130
Butylbenzylphthalate	<0.49		1.97	2.05		ug/L		104	70 - 130
Chlorobenzilate	<0.098		1.97	2.01		ug/L		102	70 - 130
Chloroneb	<0.098		1.97	1.97		ug/L		100	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.098		1.97	2.20		ug/L		112	70 - 130
Chlorpyrifos	<0.049		1.97	2.18		ug/L		111	70 - 130
Chrysene	<0.020		1.97	1.99		ug/L		101	70 - 130
delta-BHC	<0.098		1.97	1.94		ug/L		98	70 - 130
Di(2-ethylhexyl)adipate	<0.59		1.97	2.02		ug/L		103	70 - 130
Dibenz(a,h)anthracene	<0.049		1.97	1.94		ug/L		98	70 - 130
Diclorvos (DDVP)	<0.049		1.97	1.99		ug/L		101	70 - 130
Dieldrin	<0.0098		1.97	2.07		ug/L		105	70 - 130
Diethylphthalate	<0.49		1.97	2.08		ug/L		106	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-155444-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: 380-153683-AX-1-A MS

Matrix: Water

Analysis Batch: 158381

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 158163

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Dimethylphthalate	<0.49		1.97	2.01		ug/L		102	70 - 130
Di-n-butyl phthalate	<0.98		3.94	4.83		ug/L		117	70 - 130
Di-n-octyl phthalate	<0.098		1.97	2.01		ug/L		102	70 - 130
Endosulfan I (Alpha)	<0.098		1.97	2.01		ug/L		102	70 - 130
Endosulfan II (Beta)	<0.098		1.97	1.96		ug/L		100	70 - 130
Endosulfan sulfate	<0.098		1.97	1.98		ug/L		101	70 - 130
Endrin	<0.0098		1.97	2.29		ug/L		116	70 - 130
Endrin aldehyde	<0.098		1.97	1.64		ug/L		83	60 - 130
EPTC	<0.098		1.97	2.05		ug/L		104	70 - 130
Fluoranthene	<0.098		1.97	2.14		ug/L		108	70 - 130
Fluorene	<0.049		1.97	1.95		ug/L		99	70 - 130
gamma-Chlordane	<0.049		1.97	2.27		ug/L		115	70 - 130
Heptachlor	<0.0098		1.97	2.21		ug/L		112	70 - 130
Heptachlor epoxide (isomer B)	<0.0098		1.97	2.11		ug/L		107	70 - 130
Hexachlorobenzene	<0.049		1.97	1.99		ug/L		101	70 - 130
Hexachlorocyclopentadiene	<0.049		1.97	2.26		ug/L		115	70 - 130
Indeno[1,2,3-cd]pyrene	<0.049		1.97	2.13		ug/L		108	70 - 130
Isophorone	<0.098		1.97	2.15		ug/L		109	70 - 130
Lindane	<0.0098		1.97	2.13		ug/L		108	70 - 130
Malathion	<0.098		1.97	2.06		ug/L		105	70 - 130
Methoxychlor	<0.049		1.97	2.15		ug/L		109	70 - 130
Metolachlor	<0.049		1.97	2.22		ug/L		113	70 - 130
Molinate	<0.098		1.97	2.09		ug/L		106	70 - 130
Naphthalene	<0.098		1.97	1.99		ug/L		101	70 - 130
Parathion	<0.098		1.97	1.97		ug/L		100	70 - 130
Pendimethalin (Penoxaline)	<0.098		1.97	2.32		ug/L		118	70 - 130
Phenanthrene	<0.039		1.97	1.82		ug/L		92	70 - 130
Propachlor	<0.049		1.97	2.04		ug/L		103	70 - 130
Pyrene	<0.049		1.97	2.18		ug/L		111	70 - 130
Simazine	<0.049		1.97	1.97		ug/L		100	70 - 130
Terbacil	<0.098		1.97	2.07		ug/L		105	70 - 130
Terbutylazine	<0.098		1.97	2.09		ug/L		106	70 - 130
Thiobencarb	<0.098		1.97	2.11		ug/L		107	70 - 130
trans-Nonachlor	<0.049		1.97	2.34		ug/L		119	70 - 130
Trifluralin	<0.098		1.97	2.24		ug/L		113	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Nitro-m-xylene	97		70 - 130
Perylene-d12	95		70 - 130
Triphenylphosphate	110		70 - 130

QC Sample Results

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

Job ID: 380-155444-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MB 570-585297/1-A
Matrix: Water
Analysis Batch: 589767

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 585297

<i>Tentatively Identified Compound</i>	<i>Est. Result</i>	<i>MB MB</i> <i>Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>RT</i>	<i>CAS No.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Tentatively Identified Compound</i>	<i>None</i>		<i>ug/L</i>			<i>N/A</i>	06/17/25 12:23	06/26/25 13:46	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>MB MB</i> <i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
2,4,6-Tribromophenol (Surr)	62		33 - 139				06/17/25 12:23	06/26/25 13:46	1
2-Fluorobiphenyl (Surr)	84		33 - 126				06/17/25 12:23	06/26/25 13:46	1
2-Fluorophenol (Surr)	53		12 - 120				06/17/25 12:23	06/26/25 13:46	1
Nitrobenzene-d5 (Surr)	92		36 - 120				06/17/25 12:23	06/26/25 13:46	1
Phenol-d6 (Surr)	31		10 - 120				06/17/25 12:23	06/26/25 13:46	1
p-Terphenyl-d14 (Surr)	80		47 - 131				06/17/25 12:23	06/26/25 13:46	1

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

Lab Sample ID: MB 570-585297/1-A
Matrix: Water
Analysis Batch: 586357

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 585297

<i>Analyte</i>	<i>Result</i>	<i>MB MB</i> <i>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		06/17/25 12:23	06/19/25 15:29	1
2-Methylnaphthalene	<0.20		0.20	ug/L		06/17/25 12:23	06/19/25 15:29	1
Acenaphthene	<0.20		0.20	ug/L		06/17/25 12:23	06/19/25 15:29	1
Acenaphthylene	<0.20		0.20	ug/L		06/17/25 12:23	06/19/25 15:29	1
Anthracene	<0.20		0.20	ug/L		06/17/25 12:23	06/19/25 15:29	1
Benzo[a]anthracene	<0.20		0.20	ug/L		06/17/25 12:23	06/19/25 15:29	1
Benzo[a]pyrene	<0.20		0.20	ug/L		06/17/25 12:23	06/19/25 15:29	1
Benzo[b]fluoranthene	<0.20		0.20	ug/L		06/17/25 12:23	06/19/25 15:29	1
Benzo[g,h,i]perylene	<0.20		0.20	ug/L		06/17/25 12:23	06/19/25 15:29	1
Benzo[k]fluoranthene	<0.20		0.20	ug/L		06/17/25 12:23	06/19/25 15:29	1
Chrysene	<0.20		0.20	ug/L		06/17/25 12:23	06/19/25 15:29	1
Dibenz(a,h)anthracene	<0.20		0.20	ug/L		06/17/25 12:23	06/19/25 15:29	1
Fluoranthene	<0.20		0.20	ug/L		06/17/25 12:23	06/19/25 15:29	1
Fluorene	<0.20		0.20	ug/L		06/17/25 12:23	06/19/25 15:29	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20	ug/L		06/17/25 12:23	06/19/25 15:29	1
Naphthalene	<0.20		0.20	ug/L		06/17/25 12:23	06/19/25 15:29	1
Phenanthrene	<0.20		0.20	ug/L		06/17/25 12:23	06/19/25 15:29	1
Pyrene	<0.20		0.20	ug/L		06/17/25 12:23	06/19/25 15:29	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>MB MB</i> <i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
2,4,6-Tribromophenol (Surr)	106		28 - 127			06/17/25 12:23	06/19/25 15:29	1
2-Fluorobiphenyl (Surr)	83		31 - 120			06/17/25 12:23	06/19/25 15:29	1
2-Fluorophenol (Surr)	56		17 - 120			06/17/25 12:23	06/19/25 15:29	1
Nitrobenzene-d5 (Surr)	86		27 - 120			06/17/25 12:23	06/19/25 15:29	1
Phenol-d6 (Surr)	35		10 - 120			06/17/25 12:23	06/19/25 15:29	1
p-Terphenyl-d14 (Surr)	87		45 - 120			06/17/25 12:23	06/19/25 15:29	1

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-155444-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCS 570-585297/2-A

Matrix: Water

Analysis Batch: 586357

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 585297

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	20.0	14.8		ug/L		74	47 - 120
2-Methylnaphthalene	20.0	14.7		ug/L		74	43 - 120
Acenaphthene	20.0	16.5		ug/L		82	60 - 132
Acenaphthylene	20.0	17.0		ug/L		85	54 - 126
Anthracene	20.0	17.8		ug/L		89	43 - 120
Benzo[a]anthracene	20.0	18.3		ug/L		92	42 - 133
Benzo[a]pyrene	20.0	18.3		ug/L		91	32 - 148
Benzo[b]fluoranthene	20.0	18.2		ug/L		91	42 - 140
Benzo[g,h,i]perylene	20.0	18.2		ug/L		91	1 - 195
Benzo[k]fluoranthene	20.0	17.3		ug/L		86	25 - 146
Chrysene	20.0	18.0		ug/L		90	44 - 140
Dibenz(a,h)anthracene	20.0	18.6		ug/L		93	1 - 200
Fluoranthene	20.0	18.4		ug/L		92	43 - 121
Fluorene	20.0	17.0		ug/L		85	70 - 120
Indeno[1,2,3-cd]pyrene	20.0	18.2		ug/L		91	1 - 151
Naphthalene	20.0	13.8		ug/L		69	36 - 120
Phenanthrene	20.0	17.3		ug/L		86	65 - 120
Pyrene	20.0	18.5		ug/L		92	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	92		28 - 127
2-Fluorobiphenyl (Surr)	74		31 - 120
2-Fluorophenol (Surr)	52		17 - 120
Nitrobenzene-d5 (Surr)	64		27 - 120
Phenol-d6 (Surr)	34		10 - 120
p-Terphenyl-d14 (Surr)	86		45 - 120

Lab Sample ID: LCSD 570-585297/3-A

Matrix: Water

Analysis Batch: 586357

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 585297

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	20.0	16.4		ug/L		82	47 - 120	10	20
2-Methylnaphthalene	20.0	16.5		ug/L		82	43 - 120	11	20
Acenaphthene	20.0	18.3		ug/L		91	60 - 132	10	29
Acenaphthylene	20.0	18.7		ug/L		93	54 - 126	10	45
Anthracene	20.0	19.1		ug/L		96	43 - 120	7	40
Benzo[a]anthracene	20.0	19.7		ug/L		98	42 - 133	7	32
Benzo[a]pyrene	20.0	19.6		ug/L		98	32 - 148	7	43
Benzo[b]fluoranthene	20.0	19.3		ug/L		96	42 - 140	6	43
Benzo[g,h,i]perylene	20.0	19.3		ug/L		97	1 - 195	6	61
Benzo[k]fluoranthene	20.0	18.7		ug/L		94	25 - 146	8	38
Chrysene	20.0	19.4		ug/L		97	44 - 140	7	53
Dibenz(a,h)anthracene	20.0	19.9		ug/L		99	1 - 200	7	75
Fluoranthene	20.0	19.5		ug/L		98	43 - 121	6	40
Fluorene	20.0	18.7		ug/L		94	70 - 120	9	23
Indeno[1,2,3-cd]pyrene	20.0	19.2		ug/L		96	1 - 151	5	60
Naphthalene	20.0	15.2		ug/L		76	36 - 120	10	39

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-155444-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCSD 570-585297/3-A

Matrix: Water

Analysis Batch: 586357

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 585297

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenanthrene	20.0	18.7		ug/L		94	65 - 120	8	24
Pyrene	20.0	20.0		ug/L		100	70 - 120	8	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	96		28 - 127
2-Fluorobiphenyl (Surr)	81		31 - 120
2-Fluorophenol (Surr)	59		17 - 120
Nitrobenzene-d5 (Surr)	69		27 - 120
Phenol-d6 (Surr)	39		10 - 120
p-Terphenyl-d14 (Surr)	91		45 - 120

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

Lab Sample ID: MB 570-587470/10

Matrix: Water

Analysis Batch: 587470

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			06/21/25 13:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	63		38 - 134		06/21/25 13:12	1

Lab Sample ID: LCS 570-587470/1008

Matrix: Water

Analysis Batch: 587470

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	398		ug/L		100	78 - 120

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

Lab Sample ID: LCSD 570-587470/9

Matrix: Water

Analysis Batch: 587470

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	403		ug/L		101	78 - 120	1	10

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	90		38 - 134

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-155444-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MRL 570-587470/1003

Matrix: Water

Analysis Batch: 587470

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	<7.9		ug/L		76	50 - 150		
Surrogate		MRL %Recovery	MRL Qualifier	Limits							
4-Bromofluorobenzene (Surr)		73		38 - 134							

Lab Sample ID: 380-154969-C-2 MS

Matrix: Water

Analysis Batch: 587470

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	390		ug/L		97	68 - 122
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	97		38 - 134						

Lab Sample ID: 380-154969-C-2 MSD

Matrix: Water

Analysis Batch: 587470

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	402		ug/L	-	100	68 - 122	3	18
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	100		38 - 134								

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

Lab Sample ID: MB 570-584549/1-A

Matrix: Water

Analysis Batch: 585305

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 584549

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Diesel Range Organics (C10-C24)	<25		25	ug/L		06/16/25 09:11	06/17/25 12:54	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		06/16/25 09:11	06/17/25 12:54	1
C8-C18	<25		25	ug/L		06/16/25 09:11	06/17/25 12:54	1
Surrogate	MB	MB	Limits			Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier						
n-Octacosane (Surr)	107		60 - 130			06/16/25 09:11	06/17/25 12:54	1

Lab Sample ID: LCS 570-584549/2-A

Matrix: Water

Analysis Batch: 585305

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 584549

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
C10-C28	1600	1580		ug/L		98	56 - 127

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-155444-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCS 570-584549/2-A

Matrix: Water

Analysis Batch: 585305

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 584549

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
n-Octacosane (Surr)	108		60 - 130

Lab Sample ID: LCSD 570-584549/3-A

Matrix: Water

Analysis Batch: 585305

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 584549

	Spike	LCSD	LCSD						%Rec	RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit		
C10-C28	1600	1550		ug/L		97	56 - 127	2	23		

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

Lab Sample ID: MRL 570-584549/4-A

Matrix: Water

Analysis Batch: 585305

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 584549

	Spike	MRL	MRL						%Rec		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		Limit		
C10-C28	0.0200	0.0275		mg/L		137	50 - 150				

	MRL	MRL	
Surrogate	%Recovery	Qualifier	Limits
n-Octacosane (Surr)	107		60 - 130

Lab Sample ID: 380-154969-B-2-A MS

Matrix: Water

Analysis Batch: 585305

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 584549

	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
C10-C28	<27		1720	1670		ug/L		97	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
n-Octacosane (Surr)	106		60 - 130

Lab Sample ID: 380-154969-B-2-B MSD

Matrix: Water

Analysis Batch: 585305

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 584549

	Sample	Sample	Spike	MSD	MSD				%Rec	RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
C10-C28	<27		1680	1580		ug/L		94	70 - 130	5	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
n-Octacosane (Surr)	104		60 - 130

QC Association Summary

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

Job ID: 380-155444-1
SDG: Weekly: Halawa Shaft Viewing Pool

GC/MS Semi VOA

Prep Batch: 158163

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-155444-1	Halawa Shaft Viewing Pool	Total/NA	Water	525.2	
MB 380-158163/21-A	Method Blank	Total/NA	Water	525.2	
LCS 380-158163/23-A	Lab Control Sample	Total/NA	Water	525.2	
MRL 380-158163/22-A	Lab Control Sample	Total/NA	Water	525.2	
380-153683-AV-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	525.2	
380-153683-AX-1-A MS	Matrix Spike	Total/NA	Water	525.2	

Analysis Batch: 158381

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-155444-1	Halawa Shaft Viewing Pool	Total/NA	Water	525.2	158163
MB 380-158163/21-A	Method Blank	Total/NA	Water	525.2	158163
LCS 380-158163/23-A	Lab Control Sample	Total/NA	Water	525.2	158163
MRL 380-158163/22-A	Lab Control Sample	Total/NA	Water	525.2	158163
380-153683-AV-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	525.2	158163
380-153683-AX-1-A MS	Matrix Spike	Total/NA	Water	525.2	158163

Prep Batch: 585297

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-155444-1	Halawa Shaft Viewing Pool	Total/NA	Water	625.1	
MB 570-585297/1-A	Method Blank	Total/NA	Water	625.1	
LCS 570-585297/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 570-585297/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	

Analysis Batch: 586357

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-585297/1-A	Method Blank	Total/NA	Water	625.1 SIM	585297
LCS 570-585297/2-A	Lab Control Sample	Total/NA	Water	625.1 SIM	585297
LCSD 570-585297/3-A	Lab Control Sample Dup	Total/NA	Water	625.1 SIM	585297

Analysis Batch: 586977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-155444-1	Halawa Shaft Viewing Pool	Total/NA	Water	625.1 SIM	585297

Analysis Batch: 589767

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-155444-1	Halawa Shaft Viewing Pool	Total/NA	Water	625.1	585297
MB 570-585297/1-A	Method Blank	Total/NA	Water	625.1	585297

GC VOA

Analysis Batch: 587470

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-155444-1	Halawa Shaft Viewing Pool	Total/NA	Water	8015B GRO LL	
380-155444-2	TRIP BLANK	Total/NA	Water	8015B GRO LL	
MB 570-587470/10	Method Blank	Total/NA	Water	8015B GRO LL	
LCS 570-587470/1008	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-587470/9	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	
MRL 570-587470/1003	Lab Control Sample	Total/NA	Water	8015B GRO LL	
380-154969-C-2 MS	Matrix Spike	Total/NA	Water	8015B GRO LL	
380-154969-C-2 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: 380-155444-1
SDG: Weekly: Halawa Shaft Viewing Pool

GC Semi VOA

Prep Batch: 584549

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-155444-1	Halawa Shaft Viewing Pool	Total/NA	Water	3510C	
MB 570-584549/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-584549/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-584549/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-584549/4-A	Lab Control Sample	Total/NA	Water	3510C	
380-154969-B-2-A MS	Matrix Spike	Total/NA	Water	3510C	
380-154969-B-2-B MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

Analysis Batch: 585305

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-155444-1	Halawa Shaft Viewing Pool	Total/NA	Water	8015B	584549
MB 570-584549/1-A	Method Blank	Total/NA	Water	8015B	584549
LCS 570-584549/2-A	Lab Control Sample	Total/NA	Water	8015B	584549
LCSD 570-584549/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	584549
MRL 570-584549/4-A	Lab Control Sample	Total/NA	Water	8015B	584549
380-154969-B-2-A MS	Matrix Spike	Total/NA	Water	8015B	584549
380-154969-B-2-B MSD	Matrix Spike Duplicate	Total/NA	Water	8015B	584549

Lab Chronicle

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

Job ID: 380-155444-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: Halawa Shaft Viewing Pool

Lab Sample ID: 380-155444-1

Date Collected: 06/10/25 10:00

Matrix: Water

Date Received: 06/13/25 10:04

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			158163	IQ42	EA POM	06/16/25 14:24
Total/NA	Analysis	525.2		1	158381	Q8LA	EA POM	06/17/25 18:30
Total/NA	Prep	625.1			585297	H1SH	EET CAL 4	06/17/25 12:23
Total/NA	Analysis	625.1		1	589767	CG	EET CAL 4	06/26/25 14:09
Total/NA	Prep	625.1			585297	H1SH	EET CAL 4	06/17/25 12:23
Total/NA	Analysis	625.1 SIM		1	586977	PQS1	EET CAL 4	06/20/25 15:51
Total/NA	Analysis	8015B GRO LL		1	587470	BH4T	EET CAL 4	06/21/25 21:03
Total/NA	Prep	3510C			584549	TVD6	EET CAL 4	06/16/25 09:11
Total/NA	Analysis	8015B		1	585305	E5RH	EET CAL 4	06/17/25 17:18

Client Sample ID: TRIP BLANK

Lab Sample ID: 380-155444-2

Date Collected: 06/10/25 10:00

Matrix: Water

Date Received: 06/13/25 10:04

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	587470	BH4T	EET CAL 4	06/21/25 16:34

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: 380-155444-1
SDG: Weekly: Halawa Shaft Viewing Pool

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
A2LA	ISO/IEC 17025	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

Eurofins Eaton Analytical Pomona

Accreditation/Certification Summary

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

Job ID: 380-155444-1
SDG: Weekly: Halawa Shaft Viewing Pool

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	SCAQMD LAP	17LA0919	11-30-25
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: 380-155444-1
SDG: Weekly: Halawa Shaft Viewing Pool

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: 380-155444-1
SDG: Weekly: Halawa Shaft Viewing Pool

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
380-155444-1	Halawa Shaft Viewing Pool	Water	06/10/25 10:00	06/13/25 10:04
380-155444-2	TRIP BLANK	Water	06/10/25 10:00	06/13/25 10:04

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Environment Testing

[illegible]

Chain of Custody Record

[illegible]

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-155444-1

SDG Number: Weekly: Halawa Shaft Viewing Pool

Login Number: 155444

List Number: 1

Creator: Sanchez Velasquez, Gustavo

List Source: Eurofins Eaton Analytical Pomona

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

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-155444-1

SDG Number: Weekly: Halawa Shaft Viewing Pool

Login Number: 155444

List Number: 2

Creator: Khana, Piyush

List Source: Eurofins Calscience

List Creation: 06/13/25 05:46 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.2
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	