

ANALYTICAL REPORT

PREPARED FOR

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JOB DESCRIPTION

RED-HILL
Weekly: Halawa Shaft Viewing Pool

JOB NUMBER

380-167389-1

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: 380-167389-1
SDG: Weekly: Halawa Shaft Viewing Pool

Qualifiers

GC/MS Semi VOA

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

GC/MS Semi VOA TICs

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

GC VOA

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

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: 380-167389-1

Job ID: 380-167389-1

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Job Narrative 380-167389-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The samples were received on 8/21/2025 10:10 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 3.1°C.

GC/MS Semi VOA

Method 625.1_SIM: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 570-614874 and analytical batch 570-616148 recovered outside control limits for the following analytes: Pyrene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 625.1_SIM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for the following sample associated with preparation batch 570-614874 and analytical batch 570-616148 were outside control limits: (380-167051-A-1-A MS) and (380-167051-A-1-B MSD). The associated laboratory control sample (LCS) recovery met acceptance criteria.

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

Gasoline Range Organics

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

Diesel Range Organics

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

Detection Summary

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

Job ID: 380-167389-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: Halawa Shaft Viewing Pool

Lab Sample ID: 380-167389-1

No Detections.

Client Sample ID: TB: Halawa Shaft Viewing Pool

Lab Sample ID: 380-167389-2

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: 380-167389-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: Halawa Shaft Viewing Pool

Lab Sample ID: 380-167389-1

Date Collected: 08/19/25 09:40

Matrix: Water

Date Received: 08/21/25 10:10

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.097		0.097	ug/L		08/22/25 13:56	08/24/25 18:26	1
2,4'-DDD	<0.097		0.097	ug/L		08/22/25 13:56	08/24/25 18:26	1
2,4'-DDE	<0.097		0.097	ug/L		08/22/25 13:56	08/24/25 18:26	1
2,4'-DDT	<0.097		0.097	ug/L		08/22/25 13:56	08/24/25 18:26	1
2,4-Dinitrotoluene	<0.097		0.097	ug/L		08/22/25 13:56	08/24/25 18:26	1
2,6-Dinitrotoluene	<0.097		0.097	ug/L		08/22/25 13:56	08/24/25 18:26	1
2-Methylnaphthalene	<0.097		0.097	ug/L		08/22/25 13:56	08/24/25 18:26	1
4,4'-DDD	<0.097		0.097	ug/L		08/22/25 13:56	08/24/25 18:26	1
4,4'-DDE	<0.097		0.097	ug/L		08/22/25 13:56	08/24/25 18:26	1
4,4'-DDT	<0.097		0.097	ug/L		08/22/25 13:56	08/24/25 18:26	1
Acenaphthene	<0.097		0.097	ug/L		08/22/25 13:56	08/24/25 18:26	1
Acenaphthylene	<0.097		0.097	ug/L		08/22/25 13:56	08/24/25 18:26	1
Acetochlor	<0.097		0.097	ug/L		08/22/25 13:56	08/24/25 18:26	1
Alachlor	<0.049		0.049	ug/L		08/22/25 13:56	08/24/25 18:26	1
alpha-BHC	<0.097		0.097	ug/L		08/22/25 13:56	08/24/25 18:26	1
alpha-Chlordane	<0.049		0.049	ug/L		08/22/25 13:56	08/24/25 18:26	1
Anthracene	<0.019		0.019	ug/L		08/22/25 13:56	08/24/25 18:26	1
Atrazine	<0.049		0.049	ug/L		08/22/25 13:56	08/24/25 18:26	1
Benz(a)anthracene	<0.049		0.049	ug/L		08/22/25 13:56	08/24/25 18:26	1
Benzo[a]pyrene	<0.019		0.019	ug/L		08/22/25 13:56	08/24/25 18:26	1
Benzo[b]fluoranthene	<0.019		0.019	ug/L		08/22/25 13:56	08/24/25 18:26	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		08/22/25 13:56	08/24/25 18:26	1
Benzo[k]fluoranthene	<0.019		0.019	ug/L		08/22/25 13:56	08/24/25 18:26	1
beta-BHC	<0.097		0.097	ug/L		08/22/25 13:56	08/24/25 18:26	1
Bis(2-ethylhexyl) phthalate	<0.58		0.58	ug/L		08/22/25 13:56	08/24/25 18:26	1
Bromacil	<0.097		0.097	ug/L		08/22/25 13:56	08/24/25 18:26	1
Butachlor	<0.049		0.049	ug/L		08/22/25 13:56	08/24/25 18:26	1
Butylbenzylphthalate	<0.49		0.49	ug/L		08/22/25 13:56	08/24/25 18:26	1
Chlorobenzilate	<0.097		0.097	ug/L		08/22/25 13:56	08/24/25 18:26	1
Chloroneb	<0.097		0.097	ug/L		08/22/25 13:56	08/24/25 18:26	1
Chlorothalonil (Draconil, Bravo)	<0.097		0.097	ug/L		08/22/25 13:56	08/24/25 18:26	1
Chlorpyrifos	<0.049		0.049	ug/L		08/22/25 13:56	08/24/25 18:26	1
Chrysene	<0.019		0.019	ug/L		08/22/25 13:56	08/24/25 18:26	1
delta-BHC	<0.097		0.097	ug/L		08/22/25 13:56	08/24/25 18:26	1
Di(2-ethylhexyl)adipate	<0.58		0.58	ug/L		08/22/25 13:56	08/24/25 18:26	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		08/22/25 13:56	08/24/25 18:26	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		08/22/25 13:56	08/24/25 18:26	1
Dieldrin	<0.0097		0.0097	ug/L		08/22/25 13:56	08/24/25 18:26	1
Diethylphthalate	<0.49		0.49	ug/L		08/22/25 13:56	08/24/25 18:26	1
Dimethylphthalate	<0.49		0.49	ug/L		08/22/25 13:56	08/24/25 18:26	1
Di-n-butyl phthalate	<0.97		0.97	ug/L		08/22/25 13:56	08/24/25 18:26	1
Di-n-octyl phthalate	<0.097		0.097	ug/L		08/22/25 13:56	08/24/25 18:26	1
Endosulfan I (Alpha)	<0.097		0.097	ug/L		08/22/25 13:56	08/24/25 18:26	1
Endosulfan II (Beta)	<0.097		0.097	ug/L		08/22/25 13:56	08/24/25 18:26	1
Endosulfan sulfate	<0.097		0.097	ug/L		08/22/25 13:56	08/24/25 18:26	1
Endrin	<0.0097		0.0097	ug/L		08/22/25 13:56	08/24/25 18:26	1
Endrin aldehyde	<0.097		0.097	ug/L		08/22/25 13:56	08/24/25 18:26	1
EPTC	<0.097		0.097	ug/L		08/22/25 13:56	08/24/25 18:26	1
Fluoranthene	<0.097		0.097	ug/L		08/22/25 13:56	08/24/25 18:26	1

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Client Sample Results

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

Job ID: 380-167389-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: Halawa Shaft Viewing Pool

Lab Sample ID: 380-167389-1

Date Collected: 08/19/25 09:40

Matrix: Water

Date Received: 08/21/25 10:10

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	<0.049		0.049	ug/L		08/22/25 13:56	08/24/25 18:26	1
gamma-Chlordane	<0.049		0.049	ug/L		08/22/25 13:56	08/24/25 18:26	1
Heptachlor	<0.0097		0.0097	ug/L		08/22/25 13:56	08/24/25 18:26	1
Heptachlor epoxide (isomer B)	<0.0097		0.0097	ug/L		08/22/25 13:56	08/24/25 18:26	1
Hexachlorobenzene	<0.049		0.049	ug/L		08/22/25 13:56	08/24/25 18:26	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		08/22/25 13:56	08/24/25 18:26	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		08/22/25 13:56	08/24/25 18:26	1
Isophorone	<0.097		0.097	ug/L		08/22/25 13:56	08/24/25 18:26	1
Lindane	<0.0097		0.0097	ug/L		08/22/25 13:56	08/24/25 18:26	1
Malathion	<0.097		0.097	ug/L		08/22/25 13:56	08/24/25 18:26	1
Methoxychlor	<0.049		0.049	ug/L		08/22/25 13:56	08/24/25 18:26	1
Metolachlor	<0.049		0.049	ug/L		08/22/25 13:56	08/24/25 18:26	1
Molinate	<0.097		0.097	ug/L		08/22/25 13:56	08/24/25 18:26	1
Naphthalene	<0.097		0.097	ug/L		08/22/25 13:56	08/24/25 18:26	1
Parathion	<0.097		0.097	ug/L		08/22/25 13:56	08/24/25 18:26	1
Pendimethalin (Penoxaline)	<0.097		0.097	ug/L		08/22/25 13:56	08/24/25 18:26	1
Phenanthrene	<0.039		0.039	ug/L		08/22/25 13:56	08/24/25 18:26	1
Propachlor	<0.049		0.049	ug/L		08/22/25 13:56	08/24/25 18:26	1
Pyrene	<0.049		0.049	ug/L		08/22/25 13:56	08/24/25 18:26	1
Simazine	<0.049		0.049	ug/L		08/22/25 13:56	08/24/25 18:26	1
Terbacil	<0.097		0.097	ug/L		08/22/25 13:56	08/24/25 18:26	1
Terbutylazine	<0.097		0.097	ug/L		08/22/25 13:56	08/24/25 18:26	1
Thiobencarb	<0.097		0.097	ug/L		08/22/25 13:56	08/24/25 18:26	1
Total Permethrin (mixed isomers)	<0.19		0.19	ug/L		08/22/25 13:56	08/24/25 18:26	1
trans-Nonachlor	<0.049		0.049	ug/L		08/22/25 13:56	08/24/25 18:26	1
Trifluralin	<0.097		0.097	ug/L		08/22/25 13:56	08/24/25 18:26	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	08/22/25 13:56	08/24/25 18:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	95		70 - 130	08/22/25 13:56	08/24/25 18:26	1
Perylene-d12	86		70 - 130	08/22/25 13:56	08/24/25 18:26	1
Triphenylphosphate	100		70 - 130	08/22/25 13:56	08/24/25 18:26	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.19		0.19	ug/L		08/22/25 05:43	08/25/25 15:08	1
2-Methylnaphthalene	<0.19		0.19	ug/L		08/22/25 05:43	08/25/25 15:08	1
Acenaphthene	<0.19		0.19	ug/L		08/22/25 05:43	08/25/25 15:08	1
Acenaphthylene	<0.19		0.19	ug/L		08/22/25 05:43	08/25/25 15:08	1
Anthracene	<0.19		0.19	ug/L		08/22/25 05:43	08/25/25 15:08	1
Benzo[a]anthracene	<0.19		0.19	ug/L		08/22/25 05:43	08/25/25 15:08	1
Benzo[a]pyrene	<0.19		0.19	ug/L		08/22/25 05:43	08/25/25 15:08	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		08/22/25 05:43	08/25/25 15:08	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		08/22/25 05:43	08/25/25 15:08	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		08/22/25 05:43	08/25/25 15:08	1
Chrysene	<0.19		0.19	ug/L		08/22/25 05:43	08/25/25 15:08	1
Dibenz(a,h)anthracene	<0.19		0.19	ug/L		08/22/25 05:43	08/25/25 15:08	1
Fluoranthene	<0.19		0.19	ug/L		08/22/25 05:43	08/25/25 15:08	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-167389-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: Halawa Shaft Viewing Pool

Lab Sample ID: 380-167389-1

Date Collected: 08/19/25 09:40

Matrix: Water

Date Received: 08/21/25 10:10

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	<0.19		0.19	ug/L		08/22/25 05:43	08/25/25 15:08	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		08/22/25 05:43	08/25/25 15:08	1
Naphthalene	<0.19		0.19	ug/L		08/22/25 05:43	08/25/25 15:08	1
Phenanthrene	<0.19		0.19	ug/L		08/22/25 05:43	08/25/25 15:08	1
Pyrene	<0.19	+	0.19	ug/L		08/22/25 05:43	08/25/25 15:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	81		28 - 127	08/22/25 05:43	08/25/25 15:08	1
2-Fluorobiphenyl (Surr)	74		31 - 120	08/22/25 05:43	08/25/25 15:08	1
2-Fluorophenol (Surr)	53		17 - 120	08/22/25 05:43	08/25/25 15:08	1
Nitrobenzene-d5 (Surr)	79		27 - 120	08/22/25 05:43	08/25/25 15:08	1
Phenol-d6 (Surr)	33		10 - 120	08/22/25 05:43	08/25/25 15:08	1
p-Terphenyl-d14 (Surr)	80		45 - 120	08/22/25 05:43	08/25/25 15:08	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	08/22/25 05:43	09/08/25 10:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	91		33 - 139	08/22/25 05:43	09/08/25 10:00	1
2-Fluorobiphenyl (Surr)	88		33 - 126	08/22/25 05:43	09/08/25 10:00	1
2-Fluorophenol (Surr)	57		12 - 120	08/22/25 05:43	09/08/25 10:00	1
Nitrobenzene-d5 (Surr)	100		36 - 120	08/22/25 05:43	09/08/25 10:00	1
Phenol-d6 (Surr)	36		10 - 120	08/22/25 05:43	09/08/25 10:00	1
p-Terphenyl-d14 (Surr)	82		47 - 131	08/22/25 05:43	09/08/25 10:00	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	<10		10	ug/L			09/02/25 16:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	74		38 - 134		09/02/25 16:36	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		08/25/25 09:51	08/27/25 08:55	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		08/25/25 09:51	08/27/25 08:55	1
C8-C18	<25		25	ug/L		08/25/25 09:51	08/27/25 08:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	118		60 - 130	08/25/25 09:51	08/27/25 08:55	1

Client Sample ID: TB: Halawa Shaft Viewing Pool

Lab Sample ID: 380-167389-2

Date Collected: 08/19/25 09:40

Matrix: Water

Date Received: 08/21/25 10:10

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			09/02/25 16:12	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-167389-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: TB: Halawa Shaft Viewing Pool

Lab Sample ID: 380-167389-2

Date Collected: 08/19/25 09:40

Matrix: Water

Date Received: 08/21/25 10:10

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
4-Bromofluorobenzene (Surr)	74		38 - 134		09/02/25 16:12	1

Action Limit Summary

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

Job ID: 380-167389-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: Halawa Shaft Viewing Pool

Lab Sample ID: 380-167389-1

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	<0.049		ug/L	2	0.049	525.2	Total/NA
Atrazine	<0.049		ug/L	3	0.049	525.2	Total/NA
Benzo[a]pyrene	<0.019		ug/L	0.2	0.019	525.2	Total/NA
Bis(2-ethylhexyl) phthalate	<0.58		ug/L	6	0.58	525.2	Total/NA
Di(2-ethylhexyl)adipate	<0.58		ug/L	400	0.58	525.2	Total/NA
Endrin	<0.0097		ug/L	2	0.0097	525.2	Total/NA
Heptachlor	<0.0097		ug/L	0.4	0.0097	525.2	Total/NA
Heptachlor epoxide (isomer B)	<0.0097		ug/L	0.2	0.0097	525.2	Total/NA
Hexachlorobenzene	<0.049		ug/L	1	0.049	525.2	Total/NA
Hexachlorocyclopentadiene	<0.049		ug/L	50	0.049	525.2	Total/NA
Lindane	<0.0097		ug/L	0.2	0.0097	525.2	Total/NA
Methoxychlor	<0.049		ug/L	40	0.049	525.2	Total/NA
Simazine	<0.049		ug/L	4	0.049	525.2	Total/NA
Benzo[a]pyrene	<0.19		ug/L	0.2	0.19	625.1 SIM	Total/NA

Surrogate Summary

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

Job ID: 380-167389-1
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)
380-167378-E-2-A DU	Duplicate	92	87	95
380-167385-G-1-A MS	Matrix Spike	94	89	102
380-167389-1	Halawa Shaft Viewing Pool	95	86	100
LCS 380-170064/23-A	Lab Control Sample	93	91	95
MB 380-170064/21-A	Method Blank	96	79	97
MRL 380-170064/22-A	Lab Control Sample	96	82	93
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)
380-167389-1	Halawa Shaft Viewing Pool	91	88	57	100	36	82
MB 570-614874/1-A	Method Blank	97	92	57	118	41	88
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)
380-167051-A-1-A MS	Matrix Spike	93	85	71	77	47	91
380-167051-A-1-B MSD	Matrix Spike Duplicate	87	84	70	75	46	82
380-167389-1	Halawa Shaft Viewing Pool	81	74	53	79	33	80
LCS 570-614874/2-A	Lab Control Sample	84	79	67	71	44	85
LCSD 570-614874/3-A	Lab Control Sample Dup	87	79	70	73	46	87
MB 570-614874/1-A	Method Blank	93	83	66	90	42	91
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

Job ID: 380-167389-1

Project/Site: RED-HILL

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)
380-167389-1	Halawa Shaft Viewing Pool	74
380-167389-2	TB: Halawa Shaft Viewing Pool	74
380-168000-B-1 MS	Matrix Spike	87
380-168000-B-1 MSD	Matrix Spike Duplicate	88
LCS 570-619752/4	Lab Control Sample	87
LCSD 570-619752/5	Lab Control Sample Dup	88
MB 570-619752/6	Method Blank	77
MRL 570-619752/3	Lab Control Sample	80
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)
380-167051-B-1-A MS	Matrix Spike	112
380-167051-B-1-B MSD	Matrix Spike Duplicate	112
380-167389-1	Halawa Shaft Viewing Pool	118
LCS 570-616282/2-A	Lab Control Sample	115
LCSD 570-616282/3-A	Lab Control Sample Dup	113
MB 570-616282/1-A	Method Blank	103
MRL 570-616282/4-A	Lab Control Sample	101
Surrogate Legend		
OTCSN = n-Octacosane (Surr)		

QC Sample Results

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

Job ID: 380-167389-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MB 380-170064/21-A
Matrix: Water
Analysis Batch: 170212

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 170064

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.098		0.098	ug/L		08/22/25 13:56	08/24/25 14:43	1
2,4'-DDD	<0.098		0.098	ug/L		08/22/25 13:56	08/24/25 14:43	1
2,4'-DDE	<0.098		0.098	ug/L		08/22/25 13:56	08/24/25 14:43	1
2,4'-DDT	<0.098		0.098	ug/L		08/22/25 13:56	08/24/25 14:43	1
2,4-Dinitrotoluene	<0.098		0.098	ug/L		08/22/25 13:56	08/24/25 14:43	1
2,6-Dinitrotoluene	<0.098		0.098	ug/L		08/22/25 13:56	08/24/25 14:43	1
2-Methylnaphthalene	<0.098		0.098	ug/L		08/22/25 13:56	08/24/25 14:43	1
4,4'-DDD	<0.098		0.098	ug/L		08/22/25 13:56	08/24/25 14:43	1
4,4'-DDE	<0.098		0.098	ug/L		08/22/25 13:56	08/24/25 14:43	1
4,4'-DDT	<0.098		0.098	ug/L		08/22/25 13:56	08/24/25 14:43	1
Acenaphthene	<0.098		0.098	ug/L		08/22/25 13:56	08/24/25 14:43	1
Acenaphthylene	<0.098		0.098	ug/L		08/22/25 13:56	08/24/25 14:43	1
Acetochlor	<0.098		0.098	ug/L		08/22/25 13:56	08/24/25 14:43	1
Alachlor	<0.049		0.049	ug/L		08/22/25 13:56	08/24/25 14:43	1
alpha-BHC	<0.098		0.098	ug/L		08/22/25 13:56	08/24/25 14:43	1
alpha-Chlordane	<0.049		0.049	ug/L		08/22/25 13:56	08/24/25 14:43	1
Anthracene	<0.020		0.020	ug/L		08/22/25 13:56	08/24/25 14:43	1
Atrazine	<0.049		0.049	ug/L		08/22/25 13:56	08/24/25 14:43	1
Benz(a)anthracene	<0.049		0.049	ug/L		08/22/25 13:56	08/24/25 14:43	1
Benzo[a]pyrene	<0.020		0.020	ug/L		08/22/25 13:56	08/24/25 14:43	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		08/22/25 13:56	08/24/25 14:43	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		08/22/25 13:56	08/24/25 14:43	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		08/22/25 13:56	08/24/25 14:43	1
beta-BHC	<0.098		0.098	ug/L		08/22/25 13:56	08/24/25 14:43	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		08/22/25 13:56	08/24/25 14:43	1
Bromacil	<0.098		0.098	ug/L		08/22/25 13:56	08/24/25 14:43	1
Butachlor	<0.049		0.049	ug/L		08/22/25 13:56	08/24/25 14:43	1
Butylbenzylphthalate	<0.49		0.49	ug/L		08/22/25 13:56	08/24/25 14:43	1
Chlorobenzilate	<0.098		0.098	ug/L		08/22/25 13:56	08/24/25 14:43	1
Chloroneb	<0.098		0.098	ug/L		08/22/25 13:56	08/24/25 14:43	1
Chlorothalonil (Draconil, Bravo)	<0.098		0.098	ug/L		08/22/25 13:56	08/24/25 14:43	1
Chlorpyrifos	<0.049		0.049	ug/L		08/22/25 13:56	08/24/25 14:43	1
Chrysene	<0.020		0.020	ug/L		08/22/25 13:56	08/24/25 14:43	1
delta-BHC	<0.098		0.098	ug/L		08/22/25 13:56	08/24/25 14:43	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		08/22/25 13:56	08/24/25 14:43	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		08/22/25 13:56	08/24/25 14:43	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		08/22/25 13:56	08/24/25 14:43	1
Dieldrin	<0.0098		0.0098	ug/L		08/22/25 13:56	08/24/25 14:43	1
Diethylphthalate	<0.49		0.49	ug/L		08/22/25 13:56	08/24/25 14:43	1
Dimethylphthalate	<0.49		0.49	ug/L		08/22/25 13:56	08/24/25 14:43	1
Di-n-butyl phthalate	<0.98		0.98	ug/L		08/22/25 13:56	08/24/25 14:43	1
Di-n-octyl phthalate	<0.098		0.098	ug/L		08/22/25 13:56	08/24/25 14:43	1
Endosulfan I (Alpha)	<0.098		0.098	ug/L		08/22/25 13:56	08/24/25 14:43	1
Endosulfan II (Beta)	<0.098		0.098	ug/L		08/22/25 13:56	08/24/25 14:43	1
Endosulfan sulfate	<0.098		0.098	ug/L		08/22/25 13:56	08/24/25 14:43	1
Endrin	<0.0098		0.0098	ug/L		08/22/25 13:56	08/24/25 14:43	1
Endrin aldehyde	<0.098		0.098	ug/L		08/22/25 13:56	08/24/25 14:43	1
EPTC	<0.098		0.098	ug/L		08/22/25 13:56	08/24/25 14:43	1

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QC Sample Results

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

Job ID: 380-167389-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MB 380-170064/21-A

Matrix: Water

Analysis Batch: 170212

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 170064

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.098		0.098	ug/L		08/22/25 13:56	08/24/25 14:43	1
Fluorene	<0.049		0.049	ug/L		08/22/25 13:56	08/24/25 14:43	1
gamma-Chlordane	<0.049		0.049	ug/L		08/22/25 13:56	08/24/25 14:43	1
Heptachlor	<0.0098		0.0098	ug/L		08/22/25 13:56	08/24/25 14:43	1
Heptachlor epoxide (isomer B)	<0.0098		0.0098	ug/L		08/22/25 13:56	08/24/25 14:43	1
Hexachlorobenzene	<0.049		0.049	ug/L		08/22/25 13:56	08/24/25 14:43	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		08/22/25 13:56	08/24/25 14:43	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		08/22/25 13:56	08/24/25 14:43	1
Isophorone	<0.098		0.098	ug/L		08/22/25 13:56	08/24/25 14:43	1
Lindane	<0.0098		0.0098	ug/L		08/22/25 13:56	08/24/25 14:43	1
Malathion	<0.098		0.098	ug/L		08/22/25 13:56	08/24/25 14:43	1
Methoxychlor	<0.049		0.049	ug/L		08/22/25 13:56	08/24/25 14:43	1
Metolachlor	<0.049		0.049	ug/L		08/22/25 13:56	08/24/25 14:43	1
Molinate	<0.098		0.098	ug/L		08/22/25 13:56	08/24/25 14:43	1
Naphthalene	<0.098		0.098	ug/L		08/22/25 13:56	08/24/25 14:43	1
Parathion	<0.098		0.098	ug/L		08/22/25 13:56	08/24/25 14:43	1
Pendimethalin (Penoxaline)	<0.098		0.098	ug/L		08/22/25 13:56	08/24/25 14:43	1
Phenanthrene	<0.039		0.039	ug/L		08/22/25 13:56	08/24/25 14:43	1
Propachlor	<0.049		0.049	ug/L		08/22/25 13:56	08/24/25 14:43	1
Pyrene	<0.049		0.049	ug/L		08/22/25 13:56	08/24/25 14:43	1
Simazine	<0.049		0.049	ug/L		08/22/25 13:56	08/24/25 14:43	1
Terbacil	<0.098		0.098	ug/L		08/22/25 13:56	08/24/25 14:43	1
Terbutylazine	<0.098		0.098	ug/L		08/22/25 13:56	08/24/25 14:43	1
Thiobencarb	<0.098		0.098	ug/L		08/22/25 13:56	08/24/25 14:43	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		08/22/25 13:56	08/24/25 14:43	1
trans-Nonachlor	<0.049		0.049	ug/L		08/22/25 13:56	08/24/25 14:43	1
Trifluralin	<0.098		0.098	ug/L		08/22/25 13:56	08/24/25 14:43	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Phenol, p-tert-butyl-	0.736	T J N	ug/L		3.83	98-54-4	08/22/25 13:56	08/24/25 14:43	1
9-Octadecenamamide, (Z)-	2.72	T J N	ug/L		7.82	301-02-0	08/22/25 13:56	08/24/25 14:43	1
Unknown	0.541	T J	ug/L		10.32	N/A	08/22/25 13:56	08/24/25 14:43	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	96		70 - 130	08/22/25 13:56	08/24/25 14:43	1
Perylene-d12	79		70 - 130	08/22/25 13:56	08/24/25 14:43	1
Triphenylphosphate	97		70 - 130	08/22/25 13:56	08/24/25 14:43	1

Lab Sample ID: LCS 380-170064/23-A

Matrix: Water

Analysis Batch: 170212

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 170064

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	1.97	1.92		ug/L		98	70 - 130
2,4'-DDD	1.97	1.97		ug/L		100	70 - 130
2,4'-DDE	1.97	1.94		ug/L		99	70 - 130
2,4'-DDT	1.97	1.88		ug/L		96	70 - 130
2,4-Dinitrotoluene	1.97	1.86		ug/L		95	70 - 130

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QC Sample Results

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

Job ID: 380-167389-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCS 380-170064/23-A

Matrix: Water

Analysis Batch: 170212

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 170064

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,6-Dinitrotoluene	1.97	1.80		ug/L		92	70 - 130
2-Methylnaphthalene	1.97	1.80		ug/L		92	70 - 130
4,4'-DDD	1.97	1.97		ug/L		100	70 - 130
4,4'-DDE	1.97	1.89		ug/L		96	70 - 130
4,4'-DDT	1.97	1.95		ug/L		99	70 - 130
Acenaphthene	1.97	1.92		ug/L		98	70 - 130
Acenaphthylene	1.97	1.82		ug/L		92	70 - 130
Acetochlor	1.97	2.12		ug/L		108	70 - 130
Alachlor	1.97	2.07		ug/L		105	70 - 130
alpha-BHC	1.97	1.99		ug/L		101	70 - 130
alpha-Chlordane	1.97	1.94		ug/L		99	70 - 130
Anthracene	1.97	1.85		ug/L		94	70 - 130
Atrazine	1.97	2.08		ug/L		106	70 - 130
Benz(a)anthracene	1.97	1.73		ug/L		88	70 - 130
Benzo[a]pyrene	1.97	1.77		ug/L		90	70 - 130
Benzo[b]fluoranthene	1.97	1.95		ug/L		99	70 - 130
Benzo[g,h,i]perylene	1.97	1.86		ug/L		95	70 - 130
Benzo[k]fluoranthene	1.97	1.90		ug/L		97	70 - 130
beta-BHC	1.97	2.10		ug/L		107	70 - 130
Bis(2-ethylhexyl) phthalate	1.97	1.92		ug/L		98	70 - 130
Bromacil	1.97	1.89		ug/L		96	70 - 130
Butachlor	1.97	2.08		ug/L		106	70 - 130
Butylbenzylphthalate	1.97	1.91		ug/L		97	70 - 130
Chlorobenzilate	1.97	1.96		ug/L		100	70 - 130
Chloroneb	1.97	1.98		ug/L		101	70 - 130
Chlorothalonil (Draconil, Bravo)	1.97	1.85		ug/L		94	70 - 130
Chlorpyrifos	1.97	2.10		ug/L		107	70 - 130
Chrysene	1.97	2.03		ug/L		103	70 - 130
delta-BHC	1.97	1.93		ug/L		98	70 - 130
Di(2-ethylhexyl)adipate	1.97	1.85		ug/L		94	70 - 130
Dibenz(a,h)anthracene	1.97	1.77		ug/L		90	70 - 130
Diclorvos (DDVP)	1.97	1.98		ug/L		100	70 - 130
Dieldrin	1.97	1.88		ug/L		96	70 - 130
Diethylphthalate	1.97	2.11		ug/L		107	70 - 130
Dimethylphthalate	1.97	2.03		ug/L		103	70 - 130
Di-n-butyl phthalate	3.93	4.39		ug/L		112	70 - 130
Di-n-octyl phthalate	1.97	1.92		ug/L		98	70 - 130
Endosulfan I (Alpha)	1.97	1.70		ug/L		86	70 - 130
Endosulfan II (Beta)	1.97	1.90		ug/L		96	70 - 130
Endosulfan sulfate	1.97	1.93		ug/L		98	70 - 130
Endrin	1.97	1.94		ug/L		99	70 - 130
Endrin aldehyde	1.97	1.65		ug/L		84	60 - 130
EPTC	1.97	1.98		ug/L		101	70 - 130
Fluoranthene	1.97	1.93		ug/L		98	70 - 130
Fluorene	1.97	1.98		ug/L		101	70 - 130
gamma-Chlordane	1.97	1.97		ug/L		100	70 - 130
Heptachlor	1.97	2.10		ug/L		107	70 - 130
Heptachlor epoxide (isomer B)	1.97	1.96		ug/L		100	70 - 130
Hexachlorobenzene	1.97	2.02		ug/L		103	70 - 130

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QC Sample Results

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

Job ID: 380-167389-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCS 380-170064/23-A

Matrix: Water

Analysis Batch: 170212

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 170064

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Hexachlorocyclopentadiene	1.97	1.84		ug/L		93	70 - 130
Indeno[1,2,3-cd]pyrene	1.97	1.78		ug/L		90	70 - 130
Isophorone	1.97	1.91		ug/L		97	70 - 130
Lindane	1.97	2.17		ug/L		110	70 - 130
Malathion	1.97	2.04		ug/L		104	70 - 130
Methoxychlor	1.97	2.13		ug/L		109	70 - 130
Metolachlor	1.97	2.14		ug/L		109	70 - 130
Molinate	1.97	2.08		ug/L		106	70 - 130
Naphthalene	1.97	1.82		ug/L		92	70 - 130
Parathion	1.97	2.06		ug/L		105	70 - 130
Pendimethalin (Penoxaline)	1.97	1.79		ug/L		91	70 - 130
Phenanthrene	1.97	1.87		ug/L		95	70 - 130
Propachlor	1.97	2.11		ug/L		107	70 - 130
Pyrene	1.97	1.96		ug/L		100	70 - 130
Simazine	1.97	2.19		ug/L		112	70 - 130
Terbacil	1.97	2.04		ug/L		104	70 - 130
Terbuthylazine	1.97	2.28		ug/L		116	70 - 130
Thiobencarb	1.97	2.16		ug/L		110	70 - 130
trans-Nonachlor	1.97	1.99		ug/L		101	70 - 130
Trifluralin	1.97	2.02		ug/L		103	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Nitro-m-xylene	93		70 - 130
Perylene-d12	91		70 - 130
Triphenylphosphate	95		70 - 130

Lab Sample ID: MRL 380-170064/22-A

Matrix: Water

Analysis Batch: 170212

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 170064

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	0.0983	0.103		ug/L		105	50 - 150
2,4'-DDD	0.0983	0.0910	J	ug/L		93	50 - 150
2,4'-DDE	0.0983	0.106		ug/L		107	50 - 150
2,4'-DDT	0.0983	0.118		ug/L		120	50 - 150
2,4-Dinitrotoluene	0.0983	0.0966	J	ug/L		98	50 - 150
2,6-Dinitrotoluene	0.0983	0.105		ug/L		107	50 - 150
2-Methylnaphthalene	0.0983	0.106		ug/L		108	50 - 150
4,4'-DDD	0.0983	0.103		ug/L		104	50 - 150
4,4'-DDE	0.0983	0.101		ug/L		103	50 - 150
4,4'-DDT	0.0983	0.126		ug/L		128	50 - 150
Acenaphthene	0.0983	0.101		ug/L		103	50 - 150
Acenaphthylene	0.0983	0.0813	J	ug/L		83	50 - 150
Acetochlor	0.0983	0.118		ug/L		120	50 - 150
Alachlor	0.0492	0.0582		ug/L		118	50 - 150
alpha-BHC	0.0983	0.106		ug/L		107	50 - 150
alpha-Chlordane	0.0246	<0.029		ug/L		109	50 - 150
Anthracene	0.0197	0.0224		ug/L		114	50 - 150

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-167389-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MRL 380-170064/22-A

Matrix: Water

Analysis Batch: 170212

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 170064

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Atrazine	0.0492	0.0684		ug/L		139	50 - 150
Benz(a)anthracene	0.0492	0.0498		ug/L		101	50 - 150
Benzo[a]pyrene	0.0197	0.0210		ug/L		107	50 - 150
Benzo[b]fluoranthene	0.0197	0.0236		ug/L		120	50 - 150
Benzo[g,h,i]perylene	0.0492	0.0354	J	ug/L		72	50 - 150
Benzo[k]fluoranthene	0.0197	0.0214		ug/L		109	50 - 150
beta-BHC	0.0983	0.130		ug/L		132	50 - 150
Bis(2-ethylhexyl) phthalate	0.590	0.583	J	ug/L		99	50 - 150
Bromacil	0.0983	0.0898	J	ug/L		91	50 - 150
Butachlor	0.0492	0.0582		ug/L		118	50 - 150
Butylbenzylphthalate	0.492	0.515		ug/L		105	50 - 150
Chlorobenzilate	0.0983	0.0955	J	ug/L		97	50 - 150
Chloroneb	0.0983	0.112		ug/L		113	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0983	0.0974	J	ug/L		99	50 - 150
Chlorpyrifos	0.0492	0.0636		ug/L		129	50 - 150
Chrysene	0.0197	0.0240		ug/L		122	50 - 150
delta-BHC	0.0983	0.102		ug/L		103	50 - 150
Di(2-ethylhexyl)adipate	0.590	0.592		ug/L		100	50 - 150
Dibenz(a,h)anthracene	0.0492	0.0441	J	ug/L		90	50 - 150
Diclorvos (DDVP)	0.0492	0.0560		ug/L		114	50 - 150
Dieldrin	0.00983	0.0109		ug/L		111	50 - 150
Diethylphthalate	0.492	0.591		ug/L		120	50 - 150
Dimethylphthalate	0.492	0.539		ug/L		110	50 - 150
Di-n-butyl phthalate	0.492	0.633	J	ug/L		129	49 - 243
Di-n-octyl phthalate	0.0983	0.0859	J	ug/L		87	50 - 150
Endosulfan I (Alpha)	0.0983	0.0909	J	ug/L		92	50 - 150
Endosulfan II (Beta)	0.0983	0.103		ug/L		105	50 - 150
Endosulfan sulfate	0.0983	0.0972	J	ug/L		99	50 - 150
Endrin	0.00983	0.0137		ug/L		139	50 - 150
Endrin aldehyde	0.0983	0.112		ug/L		114	50 - 150
EPTC	0.0983	0.104		ug/L		106	50 - 150
Fluoranthene	0.0983	0.101		ug/L		103	50 - 150
Fluorene	0.0492	0.0575		ug/L		117	50 - 150
gamma-Chlordane	0.0246	0.0291	J	ug/L		118	50 - 150
Heptachlor	0.00983	0.0125		ug/L		127	50 - 150
Heptachlor epoxide (isomer B)	0.00983	0.0119		ug/L		121	50 - 150
Hexachlorobenzene	0.0492	0.0535		ug/L		109	50 - 150
Hexachlorocyclopentadiene	0.0492	0.0547		ug/L		111	50 - 150
Indeno[1,2,3-cd]pyrene	0.0492	0.0402	J	ug/L		82	50 - 150
Isophorone	0.0983	0.113		ug/L		115	50 - 150
Lindane	0.00983	0.0143		ug/L		146	50 - 150
Malathion	0.0983	0.106		ug/L		108	50 - 150
Methoxychlor	0.0492	0.0620		ug/L		126	50 - 150
Metolachlor	0.0492	0.0599		ug/L		122	50 - 150
Molinate	0.0983	0.109		ug/L		111	50 - 150
Naphthalene	0.0983	0.117		ug/L		119	50 - 150
Parathion	0.0983	0.0959	J	ug/L		98	50 - 150
Pendimethalin (Penoxaline)	0.0983	0.107		ug/L		108	50 - 150
Phenanthrene	0.0393	0.0447		ug/L		114	50 - 150

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-167389-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MRL 380-170064/22-A

Matrix: Water

Analysis Batch: 170212

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 170064

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Propachlor	0.0492	0.0603		ug/L		123	50 - 150
Pyrene	0.0492	0.0501		ug/L		102	50 - 150
Simazine	0.0492	0.0525		ug/L		107	50 - 150
Terbacil	0.0983	0.0991		ug/L		101	50 - 150
Terbuthylazine	0.0983	0.119		ug/L		121	50 - 150
Thiobencarb	0.0983	0.112		ug/L		114	50 - 150
trans-Nonachlor	0.0246	0.0263	J	ug/L		107	50 - 150
Trifluralin	0.0983	0.112		ug/L		113	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
2-Nitro-m-xylene	96		70 - 130
Perylene-d12	82		70 - 130
Triphenylphosphate	93		70 - 130

Lab Sample ID: 380-167385-G-1-A MS

Matrix: Water

Analysis Batch: 170212

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 170064

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.098		1.98	1.95		ug/L		99	70 - 130
2,4'-DDD	<0.098		1.98	2.07		ug/L		105	70 - 130
2,4'-DDE	<0.098		1.98	2.01		ug/L		102	70 - 130
2,4'-DDT	<0.098		1.98	1.93		ug/L		98	70 - 130
2,4-Dinitrotoluene	<0.098		1.98	2.07		ug/L		105	70 - 130
2,6-Dinitrotoluene	<0.098		1.98	2.00		ug/L		101	70 - 130
2-Methylnaphthalene	<0.098		1.98	1.84		ug/L		93	70 - 130
4,4'-DDD	<0.098		1.98	2.09		ug/L		106	70 - 130
4,4'-DDE	<0.098		1.98	1.94		ug/L		98	70 - 130
4,4'-DDT	<0.098		1.98	1.98		ug/L		100	70 - 130
Acenaphthene	<0.098		1.98	1.93		ug/L		98	70 - 130
Acenaphthylene	<0.098		1.98	1.95		ug/L		99	70 - 130
Acetochlor	<0.098		1.98	2.09		ug/L		106	70 - 130
Alachlor	<0.049		1.98	2.09		ug/L		106	70 - 130
alpha-BHC	<0.098		1.98	1.98		ug/L		100	70 - 130
alpha-Chlordane	<0.049		1.98	2.09		ug/L		106	70 - 130
Anthracene	<0.020	F1	1.98	1.17	F1	ug/L		59	70 - 130
Atrazine	<0.049		1.98	2.12		ug/L		107	70 - 130
Benz(a)anthracene	<0.049		1.98	1.76		ug/L		89	70 - 130
Benzo[a]pyrene	<0.020		1.98	1.65		ug/L		84	70 - 130
Benzo[b]fluoranthene	<0.020		1.98	2.00		ug/L		101	70 - 130
Benzo[g,h,i]perylene	<0.049		1.98	1.80		ug/L		91	70 - 130
Benzo[k]fluoranthene	<0.020		1.98	1.93		ug/L		98	70 - 130
beta-BHC	<0.098		1.98	1.99		ug/L		101	70 - 130
Bis(2-ethylhexyl) phthalate	<0.59		1.98	1.76		ug/L		89	70 - 130
Bromacil	<0.098		1.98	1.99		ug/L		101	70 - 130
Butachlor	<0.049		1.98	2.22		ug/L		112	70 - 130
Butylbenzylphthalate	<0.49		1.98	2.02		ug/L		102	70 - 130
Chlorobenzilate	<0.098		1.98	2.09		ug/L		106	70 - 130

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QC Sample Results

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

Job ID: 380-167389-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: 380-167385-G-1-A MS

Matrix: Water

Analysis Batch: 170212

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 170064

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloroneb	<0.098		1.98	2.03		ug/L		103	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.098		1.98	1.88		ug/L		95	70 - 130
Chlorpyrifos	<0.049		1.98	2.14		ug/L		108	70 - 130
Chrysene	<0.020		1.98	2.06		ug/L		104	70 - 130
delta-BHC	<0.098		1.98	1.92		ug/L		97	70 - 130
Di(2-ethylhexyl)adipate	<0.59		1.98	1.78		ug/L		90	70 - 130
Dibenz(a,h)anthracene	<0.049		1.98	1.63		ug/L		82	70 - 130
Diclorvos (DDVP)	<0.049		1.98	2.07		ug/L		105	70 - 130
Dieldrin	<0.0098		1.98	2.04		ug/L		103	70 - 130
Diethylphthalate	<0.49		1.98	2.11		ug/L		107	70 - 130
Dimethylphthalate	<0.49		1.98	1.96		ug/L		99	70 - 130
Di-n-butyl phthalate	<0.98		3.95	4.50		ug/L		114	70 - 130
Di-n-octyl phthalate	<0.098		1.98	1.74		ug/L		88	70 - 130
Endosulfan I (Alpha)	<0.098		1.98	1.82		ug/L		92	70 - 130
Endosulfan II (Beta)	<0.098		1.98	1.98		ug/L		100	70 - 130
Endosulfan sulfate	<0.098		1.98	2.05		ug/L		104	70 - 130
Endrin	<0.0098		1.98	2.09		ug/L		106	70 - 130
Endrin aldehyde	<0.098		1.98	1.67		ug/L		85	60 - 130
EPTC	<0.098		1.98	2.02		ug/L		102	70 - 130
Fluoranthene	<0.098		1.98	2.05		ug/L		104	70 - 130
Fluorene	<0.049		1.98	2.02		ug/L		103	70 - 130
gamma-Chlordane	<0.049		1.98	2.09		ug/L		106	70 - 130
Heptachlor	<0.0098		1.98	2.17		ug/L		110	70 - 130
Heptachlor epoxide (isomer B)	<0.0098		1.98	2.07		ug/L		105	70 - 130
Hexachlorobenzene	<0.049		1.98	2.02		ug/L		102	70 - 130
Hexachlorocyclopentadiene	<0.049		1.98	1.88		ug/L		95	70 - 130
Indeno[1,2,3-cd]pyrene	<0.049		1.98	1.66		ug/L		84	70 - 130
Isophorone	<0.098		1.98	1.95		ug/L		99	70 - 130
Lindane	<0.0098		1.98	2.08		ug/L		105	70 - 130
Malathion	<0.098		1.98	2.04		ug/L		103	70 - 130
Methoxychlor	<0.049		1.98	2.27		ug/L		115	70 - 130
Metolachlor	<0.049		1.98	2.17		ug/L		110	70 - 130
Molinate	<0.098		1.98	2.10		ug/L		106	70 - 130
Naphthalene	<0.098		1.98	1.81		ug/L		92	70 - 130
Parathion	<0.098		1.98	2.04		ug/L		103	70 - 130
Pendimethalin (Penoxaline)	<0.098		1.98	1.99		ug/L		101	70 - 130
Phenanthrene	<0.039		1.98	1.88		ug/L		95	70 - 130
Propachlor	<0.049		1.98	2.14		ug/L		108	70 - 130
Pyrene	<0.049		1.98	2.06		ug/L		104	70 - 130
Simazine	<0.049		1.98	2.18		ug/L		111	70 - 130
Terbacil	<0.098		1.98	2.09		ug/L		106	70 - 130
Terbutylazine	<0.098		1.98	2.15		ug/L		109	70 - 130
Thiobencarb	<0.098		1.98	2.14		ug/L		108	70 - 130
trans-Nonachlor	<0.049		1.98	2.08		ug/L		105	70 - 130
Trifluralin	<0.098		1.98	2.03		ug/L		103	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Nitro-m-xylene	94		70 - 130

QC Sample Results

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

Job ID: 380-167389-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: 380-167385-G-1-A MS

Matrix: Water

Analysis Batch: 170212

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 170064

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
Perylene-d12	89		70 - 130
Triphenylphosphate	102		70 - 130

Lab Sample ID: 380-167378-E-2-A DU

Matrix: Water

Analysis Batch: 170212

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 170064

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
1-Methylnaphthalene	<0.099		<0.099		ug/L		NC	20
2,4'-DDD	<0.099		<0.099		ug/L		NC	20
2,4'-DDE	<0.099		<0.099		ug/L		NC	20
2,4'-DDT	<0.099		<0.099		ug/L		NC	20
2,4-Dinitrotoluene	<0.099		<0.099		ug/L		NC	20
2,6-Dinitrotoluene	<0.099		<0.099		ug/L		NC	20
2-Methylnaphthalene	<0.099		<0.099		ug/L		NC	20
4,4'-DDD	<0.099		<0.099		ug/L		NC	20
4,4'-DDE	<0.099		<0.099		ug/L		NC	20
4,4'-DDT	<0.099		<0.099		ug/L		NC	20
Acenaphthene	<0.099		<0.099		ug/L		NC	20
Acenaphthylene	<0.099		<0.099		ug/L		NC	20
Acetochlor	<0.099		<0.099		ug/L		NC	20
Alachlor	<0.050		<0.049		ug/L		NC	20
alpha-BHC	<0.099		<0.099		ug/L		NC	20
alpha-Chlordane	<0.050		<0.049		ug/L		NC	20
Anthracene	<0.020		<0.020		ug/L		NC	20
Atrazine	<0.050		<0.049		ug/L		NC	20
Benz(a)anthracene	<0.050		<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	<0.050		<0.049		ug/L		NC	20
Benzo[k]fluoranthene	<0.020		<0.020		ug/L		NC	20
beta-BHC	<0.099		<0.099		ug/L		NC	20
Bis(2-ethylhexyl) phthalate	<0.59		<0.59		ug/L		NC	20
Bromacil	<0.099		<0.099		ug/L		NC	20
Butachlor	<0.050		<0.049		ug/L		NC	20
Butylbenzylphthalate	<0.50		<0.49		ug/L		NC	20
Chlorobenzilate	<0.099		<0.099		ug/L		NC	20
Chloroneb	<0.099		<0.099		ug/L		NC	20
Chlorothalonil (Draconil, Bravo)	<0.099		<0.099		ug/L		NC	20
Chlorpyrifos	<0.050		<0.049		ug/L		NC	20
Chrysene	<0.020		<0.020		ug/L		NC	20
delta-BHC	<0.099		<0.099		ug/L		NC	20
Di(2-ethylhexyl)adipate	<0.59		<0.59		ug/L		NC	20
Dibenz(a,h)anthracene	<0.050		<0.049		ug/L		NC	20
Diclorvos (DDVP)	<0.050		<0.049		ug/L		NC	20
Dieldrin	<0.0099		<0.0099		ug/L		NC	20
Diethylphthalate	<0.50		<0.49		ug/L		NC	20
Dimethylphthalate	<0.50		<0.49		ug/L		NC	20

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-167389-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: 380-167378-E-2-A DU

Matrix: Water

Analysis Batch: 170212

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 170064

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Di-n-butyl phthalate	<0.99		<0.99		ug/L		NC	20
Di-n-octyl phthalate	<0.099		<0.099		ug/L		NC	20
Endosulfan I (Alpha)	<0.099		<0.099		ug/L		NC	20
Endosulfan II (Beta)	<0.099		<0.099		ug/L		NC	20
Endosulfan sulfate	<0.099		<0.099		ug/L		NC	20
Endrin	<0.0099		<0.0099		ug/L		NC	20
Endrin aldehyde	<0.099		<0.099		ug/L		NC	20
EPTC	<0.099		<0.099		ug/L		NC	20
Fluoranthene	<0.099		<0.099		ug/L		NC	20
Fluorene	<0.050		<0.049		ug/L		NC	20
gamma-Chlordane	<0.050		<0.049		ug/L		NC	20
Heptachlor	<0.0099		<0.0099		ug/L		NC	20
Heptachlor epoxide (isomer B)	<0.0099		<0.0099		ug/L		NC	20
Hexachlorobenzene	<0.050		<0.049		ug/L		NC	20
Hexachlorocyclopentadiene	0.052		0.0494		ug/L		6	20
Indeno[1,2,3-cd]pyrene	<0.050		<0.049		ug/L		NC	20
Isophorone	<0.099		<0.099		ug/L		NC	20
Lindane	<0.0099		<0.0099		ug/L		NC	20
Malathion	<0.099		<0.099		ug/L		NC	20
Methoxychlor	<0.050		<0.049		ug/L		NC	20
Metolachlor	<0.050		<0.049		ug/L		NC	20
Molinate	<0.099		<0.099		ug/L		NC	20
Naphthalene	<0.099		<0.099		ug/L		NC	20
Parathion	<0.099		<0.099		ug/L		NC	20
Pendimethalin (Penoxaline)	<0.099		<0.099		ug/L		NC	20
Phenanthrene	<0.040		<0.040		ug/L		NC	20
Propachlor	<0.050		<0.049		ug/L		NC	20
Pyrene	<0.050		<0.049		ug/L		NC	20
Simazine	<0.050		<0.049		ug/L		NC	20
Terbacil	<0.099		<0.099		ug/L		NC	20
Terbutylazine	<0.099		<0.099		ug/L		NC	20
Thiobencarb	<0.099		<0.099		ug/L		NC	20
Total Permethrin (mixed isomers)	<0.20		<0.20		ug/L		NC	20
trans-Nonachlor	<0.050		<0.049		ug/L		NC	20
Trifluralin	<0.099		<0.099		ug/L		NC	20

Surrogate	DU %Recovery	DU Qualifier	Limits
2-Nitro-m-xylene	92		70 - 130
Perylene-d12	87		70 - 130
Triphenylphosphate	95		70 - 130

QC Sample Results

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

Job ID: 380-167389-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MB 570-614874/1-A

Matrix: Water

Analysis Batch: 622226

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 614874

<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>08/21/25 12:17</i>	<i>09/08/25 09:36</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>
<i>2,4,6-Tribromophenol (Surr)</i>	<i>97</i>		<i>33 - 139</i>				<i>08/21/25 12:17</i>	<i>09/08/25 09:36</i>	<i>1</i>
<i>2-Fluorobiphenyl (Surr)</i>	<i>92</i>		<i>33 - 126</i>				<i>08/21/25 12:17</i>	<i>09/08/25 09:36</i>	<i>1</i>
<i>2-Fluorophenol (Surr)</i>	<i>57</i>		<i>12 - 120</i>				<i>08/21/25 12:17</i>	<i>09/08/25 09:36</i>	<i>1</i>
<i>Nitrobenzene-d5 (Surr)</i>	<i>118</i>		<i>36 - 120</i>				<i>08/21/25 12:17</i>	<i>09/08/25 09:36</i>	<i>1</i>
<i>Phenol-d6 (Surr)</i>	<i>41</i>		<i>10 - 120</i>				<i>08/21/25 12:17</i>	<i>09/08/25 09:36</i>	<i>1</i>
<i>p-Terphenyl-d14 (Surr)</i>	<i>88</i>		<i>47 - 131</i>				<i>08/21/25 12:17</i>	<i>09/08/25 09:36</i>	<i>1</i>

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

Lab Sample ID: MB 570-614874/1-A

Matrix: Water

Analysis Batch: 616148

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 614874

<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>
<i>1-Methylnaphthalene</i>	<i><0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>08/21/25 12:17</i>	<i>08/25/25 07:39</i>	<i>1</i>
<i>2-Methylnaphthalene</i>	<i><0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>08/21/25 12:17</i>	<i>08/25/25 07:39</i>	<i>1</i>
<i>Acenaphthene</i>	<i><0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>08/21/25 12:17</i>	<i>08/25/25 07:39</i>	<i>1</i>
<i>Acenaphthylene</i>	<i><0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>08/21/25 12:17</i>	<i>08/25/25 07:39</i>	<i>1</i>
<i>Anthracene</i>	<i><0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>08/21/25 12:17</i>	<i>08/25/25 07:39</i>	<i>1</i>
<i>Benzo[a]anthracene</i>	<i><0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>08/21/25 12:17</i>	<i>08/25/25 07:39</i>	<i>1</i>
<i>Benzo[a]pyrene</i>	<i><0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>08/21/25 12:17</i>	<i>08/25/25 07:39</i>	<i>1</i>
<i>Benzo[b]fluoranthene</i>	<i><0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>08/21/25 12:17</i>	<i>08/25/25 07:39</i>	<i>1</i>
<i>Benzo[g,h,i]perylene</i>	<i><0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>08/21/25 12:17</i>	<i>08/25/25 07:39</i>	<i>1</i>
<i>Benzo[k]fluoranthene</i>	<i><0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>08/21/25 12:17</i>	<i>08/25/25 07:39</i>	<i>1</i>
<i>Chrysene</i>	<i><0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>08/21/25 12:17</i>	<i>08/25/25 07:39</i>	<i>1</i>
<i>Dibenz(a,h)anthracene</i>	<i><0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>08/21/25 12:17</i>	<i>08/25/25 07:39</i>	<i>1</i>
<i>Fluoranthene</i>	<i><0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>08/21/25 12:17</i>	<i>08/25/25 07:39</i>	<i>1</i>
<i>Fluorene</i>	<i><0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>08/21/25 12:17</i>	<i>08/25/25 07:39</i>	<i>1</i>
<i>Indeno[1,2,3-cd]pyrene</i>	<i><0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>08/21/25 12:17</i>	<i>08/25/25 07:39</i>	<i>1</i>
<i>Naphthalene</i>	<i><0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>08/21/25 12:17</i>	<i>08/25/25 07:39</i>	<i>1</i>
<i>Phenanthrene</i>	<i><0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>08/21/25 12:17</i>	<i>08/25/25 07:39</i>	<i>1</i>
<i>Pyrene</i>	<i><0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>08/21/25 12:17</i>	<i>08/25/25 07:39</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>
<i>2,4,6-Tribromophenol (Surr)</i>	<i>93</i>		<i>28 - 127</i>			<i>08/21/25 12:17</i>	<i>08/25/25 07:39</i>	<i>1</i>
<i>2-Fluorobiphenyl (Surr)</i>	<i>83</i>		<i>31 - 120</i>			<i>08/21/25 12:17</i>	<i>08/25/25 07:39</i>	<i>1</i>
<i>2-Fluorophenol (Surr)</i>	<i>66</i>		<i>17 - 120</i>			<i>08/21/25 12:17</i>	<i>08/25/25 07:39</i>	<i>1</i>
<i>Nitrobenzene-d5 (Surr)</i>	<i>90</i>		<i>27 - 120</i>			<i>08/21/25 12:17</i>	<i>08/25/25 07:39</i>	<i>1</i>
<i>Phenol-d6 (Surr)</i>	<i>42</i>		<i>10 - 120</i>			<i>08/21/25 12:17</i>	<i>08/25/25 07:39</i>	<i>1</i>
<i>p-Terphenyl-d14 (Surr)</i>	<i>91</i>		<i>45 - 120</i>			<i>08/21/25 12:17</i>	<i>08/25/25 07:39</i>	<i>1</i>

QC Sample Results

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

Job ID: 380-167389-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCS 570-614874/2-A

Matrix: Water

Analysis Batch: 616148

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 614874

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	20.0	17.8		ug/L		89	47 - 120
2-Methylnaphthalene	20.0	17.6		ug/L		88	43 - 120
Acenaphthene	20.0	21.3		ug/L		106	60 - 132
Acenaphthylene	20.0	21.7		ug/L		109	54 - 126
Anthracene	20.0	21.4		ug/L		107	43 - 120
Benzo[a]anthracene	20.0	22.7		ug/L		113	42 - 133
Benzo[a]pyrene	20.0	22.1		ug/L		111	32 - 148
Benzo[b]fluoranthene	20.0	22.0		ug/L		110	42 - 140
Benzo[g,h,i]perylene	20.0	23.1		ug/L		116	1 - 195
Benzo[k]fluoranthene	20.0	22.0		ug/L		110	25 - 146
Chrysene	20.0	22.1		ug/L		111	44 - 140
Dibenz(a,h)anthracene	20.0	23.7		ug/L		118	1 - 200
Fluoranthene	20.0	22.3		ug/L		112	43 - 121
Fluorene	20.0	21.9		ug/L		109	70 - 120
Indeno[1,2,3-cd]pyrene	20.0	22.4		ug/L		112	1 - 151
Naphthalene	20.0	17.4		ug/L		87	36 - 120
Phenanthrene	20.0	21.0		ug/L		105	65 - 120
Pyrene	20.0	23.5		ug/L		118	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	84		28 - 127
2-Fluorobiphenyl (Surr)	79		31 - 120
2-Fluorophenol (Surr)	67		17 - 120
Nitrobenzene-d5 (Surr)	71		27 - 120
Phenol-d6 (Surr)	44		10 - 120
p-Terphenyl-d14 (Surr)	85		45 - 120

Lab Sample ID: LCSD 570-614874/3-A

Matrix: Water

Analysis Batch: 616148

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 614874

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	20.0	18.9		ug/L		94	47 - 120	6	20
2-Methylnaphthalene	20.0	18.5		ug/L		92	43 - 120	5	20
Acenaphthene	20.0	21.6		ug/L		108	60 - 132	2	29
Acenaphthylene	20.0	22.2		ug/L		111	54 - 126	2	45
Anthracene	20.0	21.9		ug/L		109	43 - 120	2	40
Benzo[a]anthracene	20.0	23.1		ug/L		116	42 - 133	2	32
Benzo[a]pyrene	20.0	22.7		ug/L		114	32 - 148	3	43
Benzo[b]fluoranthene	20.0	22.7		ug/L		113	42 - 140	3	43
Benzo[g,h,i]perylene	20.0	23.3		ug/L		117	1 - 195	1	61
Benzo[k]fluoranthene	20.0	22.2		ug/L		111	25 - 146	1	38
Chrysene	20.0	22.6		ug/L		113	44 - 140	2	53
Dibenz(a,h)anthracene	20.0	24.0		ug/L		120	1 - 200	1	75
Fluoranthene	20.0	22.5		ug/L		113	43 - 121	1	40
Fluorene	20.0	22.4		ug/L		112	70 - 120	2	23
Indeno[1,2,3-cd]pyrene	20.0	22.8		ug/L		114	1 - 151	1	60
Naphthalene	20.0	18.1		ug/L		91	36 - 120	4	39

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-167389-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCSD 570-614874/3-A

Matrix: Water

Analysis Batch: 616148

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 614874

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenanthrene	20.0	21.5		ug/L		108	65 - 120	2	24
Pyrene	20.0	24.2	*+	ug/L		121	70 - 120	3	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	87		28 - 127
2-Fluorobiphenyl (Surr)	79		31 - 120
2-Fluorophenol (Surr)	70		17 - 120
Nitrobenzene-d5 (Surr)	73		27 - 120
Phenol-d6 (Surr)	46		10 - 120
p-Terphenyl-d14 (Surr)	87		45 - 120

Lab Sample ID: 380-167051-A-1-A MS

Matrix: Water

Analysis Batch: 616148

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 614874

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.19		19.2	19.2		ug/L		100	36 - 120
2-Methylnaphthalene	<0.19		19.2	18.9		ug/L		98	32 - 124
Acenaphthene	<0.19		19.2	22.4		ug/L		117	47 - 145
Acenaphthylene	<0.19		19.2	22.6		ug/L		118	33 - 145
Anthracene	<0.19		19.2	22.4		ug/L		117	27 - 133
Benzo[a]anthracene	<0.19		19.2	24.2		ug/L		126	33 - 143
Benzo[a]pyrene	<0.19		19.2	23.4		ug/L		122	17 - 163
Benzo[b]fluoranthene	<0.19		19.2	23.2		ug/L		121	24 - 159
Benzo[g,h,i]perylene	<0.19		19.2	22.5		ug/L		117	1 - 219
Benzo[k]fluoranthene	<0.19		19.2	22.1		ug/L		115	11 - 162
Chrysene	<0.19		19.2	23.2		ug/L		121	17 - 168
Dibenz(a,h)anthracene	<0.19		19.2	23.0		ug/L		120	1 - 227
Fluoranthene	<0.19		19.2	23.1		ug/L		120	26 - 137
Fluorene	<0.19		19.2	22.8		ug/L		119	59 - 121
Indeno[1,2,3-cd]pyrene	<0.19		19.2	22.1		ug/L		115	1 - 171
Naphthalene	<0.19		19.2	18.8		ug/L		98	21 - 133
Phenanthrene	<0.19		19.2	22.0		ug/L		115	54 - 120
Pyrene	<0.19	*+ F1	19.2	25.5	F1	ug/L		133	52 - 120

Surrogate	MS %Recovery	MS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	93		28 - 127
2-Fluorobiphenyl (Surr)	85		31 - 120
2-Fluorophenol (Surr)	71		17 - 120
Nitrobenzene-d5 (Surr)	77		27 - 120
Phenol-d6 (Surr)	47		10 - 120
p-Terphenyl-d14 (Surr)	91		45 - 120

QC Sample Results

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

Job ID: 380-167389-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: 380-167051-A-1-B MSD

Matrix: Water

Analysis Batch: 616148

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 614874

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	<0.19		19.1	19.2		ug/L		101	36 - 120	0	30
2-Methylnaphthalene	<0.19		19.1	19.0		ug/L		100	32 - 124	0	30
Acenaphthene	<0.19		19.1	21.8		ug/L		115	47 - 145	2	48
Acenaphthylene	<0.19		19.1	22.1		ug/L		116	33 - 145	2	74
Anthracene	<0.19		19.1	21.8		ug/L		114	27 - 133	3	66
Benzo[a]anthracene	<0.19		19.1	22.7		ug/L		119	33 - 143	7	53
Benzo[a]pyrene	<0.19		19.1	21.2		ug/L		111	17 - 163	10	72
Benzo[b]fluoranthene	<0.19		19.1	21.2		ug/L		111	24 - 159	9	71
Benzo[g,h,i]perylene	<0.19		19.1	21.1		ug/L		111	1 - 219	7	97
Benzo[k]fluoranthene	<0.19		19.1	20.0		ug/L		105	11 - 162	10	63
Chrysene	<0.19		19.1	21.6		ug/L		113	17 - 168	7	87
Dibenz(a,h)anthracene	<0.19		19.1	21.6		ug/L		114	1 - 227	6	126
Fluoranthene	<0.19		19.1	22.5		ug/L		118	26 - 137	3	66
Fluorene	<0.19		19.1	22.6		ug/L		119	59 - 121	1	38
Indeno[1,2,3-cd]pyrene	<0.19		19.1	20.7		ug/L		108	1 - 171	7	99
Naphthalene	<0.19		19.1	18.3		ug/L		96	21 - 133	3	65
Phenanthrene	<0.19		19.1	21.4		ug/L		112	54 - 120	3	39
Pyrene	<0.19	*+ F1	19.1	24.3	F1	ug/L		128	52 - 120	5	49

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	87		28 - 127
2-Fluorobiphenyl (Surr)	84		31 - 120
2-Fluorophenol (Surr)	70		17 - 120
Nitrobenzene-d5 (Surr)	75		27 - 120
Phenol-d6 (Surr)	46		10 - 120
p-Terphenyl-d14 (Surr)	82		45 - 120

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

Lab Sample ID: MB 570-619752/6

Matrix: Water

Analysis Batch: 619752

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			09/02/25 15:09	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		38 - 134		09/02/25 15:09	1

Lab Sample ID: LCS 570-619752/4

Matrix: Water

Analysis Batch: 619752

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	357		ug/L		89	78 - 120

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-167389-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCS 570-619752/4

Matrix: Water

Analysis Batch: 619752

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

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

Lab Sample ID: LCSD 570-619752/5

Matrix: Water

Analysis Batch: 619752

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

				Spike	LCSD	LCSD				%Rec	RPD	
Analyte				Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (C4-C13)				400	365		ug/L		91	78 - 120	2	10

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	88		38 - 134

Lab Sample ID: MRL 570-619752/3

Matrix: Water

Analysis Batch: 619752

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

			Spike	MRL	MRL				%Rec		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (C4-C13)			10.0	8.68	J	ug/L		87	50 - 150		

	MRL	MRL	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	80		38 - 134

Lab Sample ID: 380-168000-B-1 MS

Matrix: Water

Analysis Batch: 619752

Client Sample ID: Matrix Spike

Prep Type: Total/NA

	Sample	Sample	Spike	MS	MS			%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics (C4-C13)	<10		400	380		ug/L		95	68 - 122

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

Lab Sample ID: 380-168000-B-1 MSD

Matrix: Water

Analysis Batch: 619752

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

	Sample	Sample	Spike	MSD	MSD			%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD
Gasoline Range Organics (C4-C13)	<10		400	401		ug/L		100	68 - 122	5

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	88		38 - 134

QC Sample Results

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

Job ID: 380-167389-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MB 570-616282/1-A

Matrix: Water

Analysis Batch: 617326

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 616282

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<25		25	ug/L		08/25/25 09:50	08/26/25 23:57	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		08/25/25 09:50	08/26/25 23:57	1
C8-C18	<25		25	ug/L		08/25/25 09:50	08/26/25 23:57	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	103		60 - 130			08/25/25 09:50	08/26/25 23:57	1

Lab Sample ID: LCS 570-616282/2-A

Matrix: Water

Analysis Batch: 617326

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 616282

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
C10-C28	1600	1710		ug/L		107	56 - 127	
Surrogate	LCS %Recovery	LCS Qualifier	Limits					
n-Octacosane (Surr)	115		60 - 130					

Lab Sample ID: LCSD 570-616282/3-A

Matrix: Water

Analysis Batch: 617326

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 616282

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28	1600	1560		ug/L		97	56 - 127	9	23
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
n-Octacosane (Surr)	113		60 - 130						

Lab Sample ID: MRL 570-616282/4-A

Matrix: Water

Analysis Batch: 617326

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 616282

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits	
C10-C28	0.0200	0.0284		mg/L		142	50 - 150	
Surrogate	MRL %Recovery	MRL Qualifier	Limits					
n-Octacosane (Surr)	101		60 - 130					

Lab Sample ID: 380-167051-B-1-A MS

Matrix: Water

Analysis Batch: 617326

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 616282

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
C10-C28	<25		1630	1710		ug/L		105	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
n-Octacosane (Surr)	112		60 - 130						

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-167389-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: 380-167051-B-1-B MSD

Matrix: Water

Analysis Batch: 617326

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 616282

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28	<25		1650	1770		ug/L		107	70 - 130	3	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
n-Octacosane (Surr)	112		60 - 130								

QC Association Summary

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

Job ID: 380-167389-1
SDG: Weekly: Halawa Shaft Viewing Pool

GC/MS Semi VOA

Prep Batch: 170064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-167389-1	Halawa Shaft Viewing Pool	Total/NA	Water	525.2	
MB 380-170064/21-A	Method Blank	Total/NA	Water	525.2	
LCS 380-170064/23-A	Lab Control Sample	Total/NA	Water	525.2	
MRL 380-170064/22-A	Lab Control Sample	Total/NA	Water	525.2	
380-167385-G-1-A MS	Matrix Spike	Total/NA	Water	525.2	
380-167378-E-2-A DU	Duplicate	Total/NA	Water	525.2	

Analysis Batch: 170212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-167389-1	Halawa Shaft Viewing Pool	Total/NA	Water	525.2	170064
MB 380-170064/21-A	Method Blank	Total/NA	Water	525.2	170064
LCS 380-170064/23-A	Lab Control Sample	Total/NA	Water	525.2	170064
MRL 380-170064/22-A	Lab Control Sample	Total/NA	Water	525.2	170064
380-167385-G-1-A MS	Matrix Spike	Total/NA	Water	525.2	170064
380-167378-E-2-A DU	Duplicate	Total/NA	Water	525.2	170064

Prep Batch: 614874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-167389-1	Halawa Shaft Viewing Pool	Total/NA	Water	625.1	
MB 570-614874/1-A	Method Blank	Total/NA	Water	625.1	
LCS 570-614874/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 570-614874/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	
380-167051-A-1-A MS	Matrix Spike	Total/NA	Water	625.1	
380-167051-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	625.1	

Analysis Batch: 616148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-167389-1	Halawa Shaft Viewing Pool	Total/NA	Water	625.1 SIM	614874
MB 570-614874/1-A	Method Blank	Total/NA	Water	625.1 SIM	614874
LCS 570-614874/2-A	Lab Control Sample	Total/NA	Water	625.1 SIM	614874
LCSD 570-614874/3-A	Lab Control Sample Dup	Total/NA	Water	625.1 SIM	614874
380-167051-A-1-A MS	Matrix Spike	Total/NA	Water	625.1 SIM	614874
380-167051-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	625.1 SIM	614874

Analysis Batch: 622226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-167389-1	Halawa Shaft Viewing Pool	Total/NA	Water	625.1	614874
MB 570-614874/1-A	Method Blank	Total/NA	Water	625.1	614874

GC VOA

Analysis Batch: 619752

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-167389-1	Halawa Shaft Viewing Pool	Total/NA	Water	8015B GRO LL	
380-167389-2	TB: Halawa Shaft Viewing Pool	Total/NA	Water	8015B GRO LL	
MB 570-619752/6	Method Blank	Total/NA	Water	8015B GRO LL	
LCS 570-619752/4	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-619752/5	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	
MRL 570-619752/3	Lab Control Sample	Total/NA	Water	8015B GRO LL	
380-168000-B-1 MS	Matrix Spike	Total/NA	Water	8015B GRO LL	
380-168000-B-1 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: 380-167389-1
SDG: Weekly: Halawa Shaft Viewing Pool

GC Semi VOA

Prep Batch: 616282

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-167389-1	Halawa Shaft Viewing Pool	Total/NA	Water	3510C	
MB 570-616282/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-616282/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-616282/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-616282/4-A	Lab Control Sample	Total/NA	Water	3510C	
380-167051-B-1-A MS	Matrix Spike	Total/NA	Water	3510C	
380-167051-B-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

Analysis Batch: 617326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-167389-1	Halawa Shaft Viewing Pool	Total/NA	Water	8015B	616282
MB 570-616282/1-A	Method Blank	Total/NA	Water	8015B	616282
LCS 570-616282/2-A	Lab Control Sample	Total/NA	Water	8015B	616282
LCSD 570-616282/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	616282
MRL 570-616282/4-A	Lab Control Sample	Total/NA	Water	8015B	616282
380-167051-B-1-A MS	Matrix Spike	Total/NA	Water	8015B	616282
380-167051-B-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	8015B	616282

Lab Chronicle

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

Job ID: 380-167389-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: Halawa Shaft Viewing Pool

Lab Sample ID: 380-167389-1

Date Collected: 08/19/25 09:40

Matrix: Water

Date Received: 08/21/25 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			170064	IQ42	EA POM	08/22/25 13:56
Total/NA	Analysis	525.2		1	170212	Q8LA	EA POM	08/24/25 18:26
Total/NA	Prep	625.1			614874	OAJ3	EET CAL 4	08/22/25 05:43
Total/NA	Analysis	625.1		1	622226	CG	EET CAL 4	09/08/25 10:00
Total/NA	Prep	625.1			614874	OAJ3	EET CAL 4	08/22/25 05:43
Total/NA	Analysis	625.1 SIM		1	616148	PQS1	EET CAL 4	08/25/25 15:08
Total/NA	Analysis	8015B GRO LL		1	619752	A9VE	EET CAL 4	09/02/25 16:36
Total/NA	Prep	3510C			616282	TVD6	EET CAL 4	08/25/25 09:51
Total/NA	Analysis	8015B		1	617326	H6FE	EET CAL 4	08/27/25 08:55

Client Sample ID: TB: Halawa Shaft Viewing Pool

Lab Sample ID: 380-167389-2

Date Collected: 08/19/25 09:40

Matrix: Water

Date Received: 08/21/25 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	619752	A9VE	EET CAL 4	09/02/25 16:12

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: 380-167389-1
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
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: 380-167389-1
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	State	3082	07-31-26
Kansas	NELAP	E-10420	07-31-26
Nevada	State	CA00111	07-31-26
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: 380-167389-1
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: 380-167389-1
SDG: Weekly: Halawa Shaft Viewing Pool

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
380-167389-1	Halawa Shaft Viewing Pool	Water	08/19/25 09:40	08/21/25 10:10	Hawaii
380-167389-2	TB: Halawa Shaft Viewing Pool	Water	08/19/25 09:40	08/21/25 10:10	Hawaii

- 1
- 2
- 3
- 4
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- 15
- 16



[illegible]

380-167389 Chain of Custody

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

Possible Hazard Identification	
1	1.1
2	2.1
3	3.1
4	4.1
5	5.1
6	6.1
7	7.1
8	8.1
9	9.1
10	10.1
11	11.1
12	12.1
13	13.1
14	14.1
15	15.1
16	16.1
17	17.1
18	18.1
19	19.1
20	20.1
21	21.1
22	22.1
23	23.1
24	24.1
25	25.1
26	26.1
27	27.1
28	28.1
29	29.1
30	30.1
31	31.1
32	32.1
33	33.1
34	34.1
35	35.1
36	36.1
37	37.1
38	38.1
39	39.1
40	40.1
41	41.1
42	42.1
43	43.1
44	44.1
45	45.1
46	46.1
47	47.1
48	48.1
49	49.1
50	50.1
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65	65.1
66	66.1
67	67.1
68	68.1
69	69.1
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73	73.1
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81	81.1
82	82.1
83	83.1
84	84.1
85	85.1
86	86.1
87	87.1
88	88.1
89	89.1
90	90.1
91	91.1
92	92.1
93	93.1
94	94.1
95	95.1
96	96.1
97	97.1
98	98.1
99	99.1
100	100.1

Unconfirmed

Deliverable Requested: I, II, III, IV, Other (specify)

Primary Deliverable Rank: 2

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ *Disposal By Lab*

 Archive For

Months

Special Instructions/QC Requirements:	
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Empty Kit Relinquished by:

Date: _____

Time:

Method of Shipment:

Relinquished by:

Date/Time:

Company	Revenue	Profit	Assets	Liabilities	Equity
Company A	100	20	120	80	40
Company B	150	30	180	120	60
Company C	200	40	240	160	80
Company D	250	50	300	200	100
Company E	300	60	360	240	120
Company F	350	70	420	280	140
Company G	400	80	480	320	160
Company H	450	90	540	360	180
Company I	500	100	600	400	200
Company J	550	110	660	440	220
Company K	600	120	720	480	240
Company L	650	130	780	520	260
Company M	700	140	840	560	280
Company N	750	150	900	600	300
Company O	800	160	960	640	320
Company P	850	170	1020	680	340
Company Q	900	180	1080	720	360
Company R	950	190	1140	760	380
Company S	1000	200	1200	800	400

Received by:

Date/Time:

Company

Relinquished by:

Date/Time:

Company	
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Received by:

Date/Time:

Company	
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Relinquished by:

Date/Time:

Company

Received by:

Date/Time:

Comcast

Custody Seals Intact:

Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-167389-1

SDG Number: Weekly: Halawa Shaft Viewing Pool

Login Number: 167389

List Number: 1

Creator: Hernandez, Orlando

List Source: Eurofins Eaton Analytical Pomona

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

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-167389-1

SDG Number: Weekly: Halawa Shaft Viewing Pool

Login Number: 167389

List Source: Eurofins Calscience

List Number: 2

List Creation: 08/21/25 06:25 PM

Creator: Khana, Piyush

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	