

ANALYTICAL REPORT

PREPARED FOR

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JOB DESCRIPTION

RED-HILL
Weekly: Halawa Shaft Viewing Pool

JOB NUMBER

380-162643-1

Eurofins Eaton Analytical Pomona

Job Notes

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

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

Compliance Statement

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

Authorization



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Definitions/Glossary

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

Job ID: 380-162643-1
SDG: Weekly: Halawa Shaft Viewing Pool

Qualifiers

GC/MS Semi VOA

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

GC/MS Semi VOA TICs

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

GC VOA

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

GC Semi VOA

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

Glossary

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

Case Narrative

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

Job ID: 380-162643-1

Job ID: 380-162643-1

Eurofins Eaton Analytical Pomona

Job Narrative 380-162643-1

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 7/24/2025 10:34 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.9°C and 1.0°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 570-604213. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch. 625-S.I.M

Method 625.1_SIM: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 570-604213. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch. 625-S.I.M

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: 380-162643-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: Halawa Shaft Viewing Pool

Lab Sample ID: 380-162643-1

☐ No Detections.

Client Sample ID: TB: Halawa Shaft Viewing Pool

Lab Sample ID: 380-162643-2

☐ 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: 380-162643-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: Halawa Shaft Viewing Pool

Lab Sample ID: 380-162643-1

Date Collected: 07/22/25 09:25

Matrix: Water

Date Received: 07/24/25 10:34

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.096		0.096	ug/L		07/28/25 08:44	07/29/25 14:57	1
2,4'-DDD	<0.096		0.096	ug/L		07/28/25 08:44	07/29/25 14:57	1
2,4'-DDE	<0.096		0.096	ug/L		07/28/25 08:44	07/29/25 14:57	1
2,4'-DDT	<0.096		0.096	ug/L		07/28/25 08:44	07/29/25 14:57	1
2,4-Dinitrotoluene	<0.096		0.096	ug/L		07/28/25 08:44	07/29/25 14:57	1
2,6-Dinitrotoluene	<0.096		0.096	ug/L		07/28/25 08:44	07/29/25 14:57	1
2-Methylnaphthalene	<0.096		0.096	ug/L		07/28/25 08:44	07/29/25 14:57	1
4,4'-DDD	<0.096		0.096	ug/L		07/28/25 08:44	07/29/25 14:57	1
4,4'-DDE	<0.096		0.096	ug/L		07/28/25 08:44	07/29/25 14:57	1
4,4'-DDT	<0.096		0.096	ug/L		07/28/25 08:44	07/29/25 14:57	1
Acenaphthene	<0.096		0.096	ug/L		07/28/25 08:44	07/29/25 14:57	1
Acenaphthylene	<0.096		0.096	ug/L		07/28/25 08:44	07/29/25 14:57	1
Acetochlor	<0.096		0.096	ug/L		07/28/25 08:44	07/29/25 14:57	1
Alachlor	<0.048		0.048	ug/L		07/28/25 08:44	07/29/25 14:57	1
alpha-BHC	<0.096		0.096	ug/L		07/28/25 08:44	07/29/25 14:57	1
alpha-Chlordane	<0.048		0.048	ug/L		07/28/25 08:44	07/29/25 14:57	1
Anthracene	<0.019		0.019	ug/L		07/28/25 08:44	07/29/25 14:57	1
Atrazine	<0.048		0.048	ug/L		07/28/25 08:44	07/29/25 14:57	1
Benz(a)anthracene	<0.048		0.048	ug/L		07/28/25 08:44	07/29/25 14:57	1
Benzo[a]pyrene	<0.019		0.019	ug/L		07/28/25 08:44	07/29/25 14:57	1
Benzo[b]fluoranthene	<0.019		0.019	ug/L		07/28/25 08:44	07/29/25 14:57	1
Benzo[g,h,i]perylene	<0.048		0.048	ug/L		07/28/25 08:44	07/29/25 14:57	1
Benzo[k]fluoranthene	<0.019		0.019	ug/L		07/28/25 08:44	07/29/25 14:57	1
beta-BHC	<0.096		0.096	ug/L		07/28/25 08:44	07/29/25 14:57	1
Bis(2-ethylhexyl) phthalate	<0.58		0.58	ug/L		07/28/25 08:44	07/29/25 14:57	1
Bromacil	<0.096		0.096	ug/L		07/28/25 08:44	07/29/25 14:57	1
Butachlor	<0.048		0.048	ug/L		07/28/25 08:44	07/29/25 14:57	1
Butylbenzylphthalate	<0.48		0.48	ug/L		07/28/25 08:44	07/29/25 14:57	1
Chlorobenzilate	<0.096		0.096	ug/L		07/28/25 08:44	07/29/25 14:57	1
Chloroneb	<0.096		0.096	ug/L		07/28/25 08:44	07/29/25 14:57	1
Chlorothalonil (Draconil, Bravo)	<0.096		0.096	ug/L		07/28/25 08:44	07/29/25 14:57	1
Chlorpyrifos	<0.048		0.048	ug/L		07/28/25 08:44	07/29/25 14:57	1
Chrysene	<0.019		0.019	ug/L		07/28/25 08:44	07/29/25 14:57	1
delta-BHC	<0.096		0.096	ug/L		07/28/25 08:44	07/29/25 14:57	1
Di(2-ethylhexyl)adipate	<0.58		0.58	ug/L		07/28/25 08:44	07/29/25 14:57	1
Dibenz(a,h)anthracene	<0.048		0.048	ug/L		07/28/25 08:44	07/29/25 14:57	1
Diclorvos (DDVP)	<0.048		0.048	ug/L		07/28/25 08:44	07/29/25 14:57	1
Dieldrin	<0.0096		0.0096	ug/L		07/28/25 08:44	07/29/25 14:57	1
Diethylphthalate	<0.48		0.48	ug/L		07/28/25 08:44	07/29/25 14:57	1
Dimethylphthalate	<0.48		0.48	ug/L		07/28/25 08:44	07/29/25 14:57	1
Di-n-butyl phthalate	<0.96		0.96	ug/L		07/28/25 08:44	07/29/25 14:57	1
Di-n-octyl phthalate	<0.096		0.096	ug/L		07/28/25 08:44	07/29/25 14:57	1
Endosulfan I (Alpha)	<0.096		0.096	ug/L		07/28/25 08:44	07/29/25 14:57	1
Endosulfan II (Beta)	<0.096		0.096	ug/L		07/28/25 08:44	07/29/25 14:57	1
Endosulfan sulfate	<0.096		0.096	ug/L		07/28/25 08:44	07/29/25 14:57	1
Endrin	<0.0096		0.0096	ug/L		07/28/25 08:44	07/29/25 14:57	1
Endrin aldehyde	<0.096		0.096	ug/L		07/28/25 08:44	07/29/25 14:57	1
EPTC	<0.096		0.096	ug/L		07/28/25 08:44	07/29/25 14:57	1
Fluoranthene	<0.096		0.096	ug/L		07/28/25 08:44	07/29/25 14:57	1

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Client Sample Results

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

Job ID: 380-162643-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: Halawa Shaft Viewing Pool

Lab Sample ID: 380-162643-1

Date Collected: 07/22/25 09:25

Matrix: Water

Date Received: 07/24/25 10:34

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	<0.048		0.048	ug/L		07/28/25 08:44	07/29/25 14:57	1
gamma-Chlordane	<0.048		0.048	ug/L		07/28/25 08:44	07/29/25 14:57	1
Heptachlor	<0.0096		0.0096	ug/L		07/28/25 08:44	07/29/25 14:57	1
Heptachlor epoxide (isomer B)	<0.0096		0.0096	ug/L		07/28/25 08:44	07/29/25 14:57	1
Hexachlorobenzene	<0.048		0.048	ug/L		07/28/25 08:44	07/29/25 14:57	1
Hexachlorocyclopentadiene	<0.048		0.048	ug/L		07/28/25 08:44	07/29/25 14:57	1
Indeno[1,2,3-cd]pyrene	<0.048		0.048	ug/L		07/28/25 08:44	07/29/25 14:57	1
Isophorone	<0.096		0.096	ug/L		07/28/25 08:44	07/29/25 14:57	1
Lindane	<0.0096		0.0096	ug/L		07/28/25 08:44	07/29/25 14:57	1
Malathion	<0.096		0.096	ug/L		07/28/25 08:44	07/29/25 14:57	1
Methoxychlor	<0.048		0.048	ug/L		07/28/25 08:44	07/29/25 14:57	1
Metolachlor	<0.048		0.048	ug/L		07/28/25 08:44	07/29/25 14:57	1
Molinate	<0.096		0.096	ug/L		07/28/25 08:44	07/29/25 14:57	1
Naphthalene	<0.096		0.096	ug/L		07/28/25 08:44	07/29/25 14:57	1
Parathion	<0.096		0.096	ug/L		07/28/25 08:44	07/29/25 14:57	1
Pendimethalin (Penoxaline)	<0.096		0.096	ug/L		07/28/25 08:44	07/29/25 14:57	1
Phenanthrene	<0.038		0.038	ug/L		07/28/25 08:44	07/29/25 14:57	1
Propachlor	<0.048		0.048	ug/L		07/28/25 08:44	07/29/25 14:57	1
Pyrene	<0.048		0.048	ug/L		07/28/25 08:44	07/29/25 14:57	1
Simazine	<0.048		0.048	ug/L		07/28/25 08:44	07/29/25 14:57	1
Terbacil	<0.096		0.096	ug/L		07/28/25 08:44	07/29/25 14:57	1
Terbutylazine	<0.096		0.096	ug/L		07/28/25 08:44	07/29/25 14:57	1
Thiobencarb	<0.096		0.096	ug/L		07/28/25 08:44	07/29/25 14:57	1
Total Permethrin (mixed isomers)	<0.19		0.19	ug/L		07/28/25 08:44	07/29/25 14:57	1
trans-Nonachlor	<0.048		0.048	ug/L		07/28/25 08:44	07/29/25 14:57	1
Trifluralin	<0.096		0.096	ug/L		07/28/25 08:44	07/29/25 14:57	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	07/28/25 08:44	07/29/25 14:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	91		70 - 130	07/28/25 08:44	07/29/25 14:57	1
Perylene-d12	92		70 - 130	07/28/25 08:44	07/29/25 14:57	1
Triphenylphosphate	113		70 - 130	07/28/25 08:44	07/29/25 14:57	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		07/29/25 18:46	08/07/25 09:03	1
2-Methylnaphthalene	<0.19		0.19	ug/L		07/29/25 18:46	08/07/25 09:03	1
Acenaphthene	<0.19		0.19	ug/L		07/29/25 18:46	08/07/25 09:03	1
Acenaphthylene	<0.19		0.19	ug/L		07/29/25 18:46	08/07/25 09:03	1
Anthracene	<0.19		0.19	ug/L		07/29/25 18:46	08/07/25 09:03	1
Benzo[a]anthracene	<0.19		0.19	ug/L		07/29/25 18:46	08/07/25 09:03	1
Benzo[a]pyrene	<0.19		0.19	ug/L		07/29/25 18:46	08/07/25 09:03	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		07/29/25 18:46	08/07/25 09:03	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		07/29/25 18:46	08/07/25 09:03	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		07/29/25 18:46	08/07/25 09:03	1
Chrysene	<0.19		0.19	ug/L		07/29/25 18:46	08/07/25 09:03	1
Dibenz(a,h)anthracene	<0.19		0.19	ug/L		07/29/25 18:46	08/07/25 09:03	1
Fluoranthene	<0.19		0.19	ug/L		07/29/25 18:46	08/07/25 09:03	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-162643-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: Halawa Shaft Viewing Pool

Lab Sample ID: 380-162643-1

Date Collected: 07/22/25 09:25

Matrix: Water

Date Received: 07/24/25 10:34

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	<0.19		0.19	ug/L		07/29/25 18:46	08/07/25 09:03	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		07/29/25 18:46	08/07/25 09:03	1
Naphthalene	<0.19		0.19	ug/L		07/29/25 18:46	08/07/25 09:03	1
Phenanthrene	<0.19		0.19	ug/L		07/29/25 18:46	08/07/25 09:03	1
Pyrene	<0.19		0.19	ug/L		07/29/25 18:46	08/07/25 09:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	96		28 - 127	07/29/25 18:46	08/07/25 09:03	1
2-Fluorobiphenyl (Surr)	82		31 - 120	07/29/25 18:46	08/07/25 09:03	1
2-Fluorophenol (Surr)	54		17 - 120	07/29/25 18:46	08/07/25 09:03	1
Nitrobenzene-d5 (Surr)	97		27 - 120	07/29/25 18:46	08/07/25 09:03	1
Phenol-d6 (Surr)	33		10 - 120	07/29/25 18:46	08/07/25 09:03	1
p-Terphenyl-d14 (Surr)	97		45 - 120	07/29/25 18:46	08/07/25 09:03	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
Cyclopentene, 1,2,3,4,5-pentamethyl-	15	T J N	ug/L		2.43	1000154-28-6	07/29/25 18:46	08/11/25 16:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	66		33 - 139	07/29/25 18:46	08/11/25 16:03	1
2-Fluorobiphenyl (Surr)	81		33 - 126	07/29/25 18:46	08/11/25 16:03	1
2-Fluorophenol (Surr)	50		12 - 120	07/29/25 18:46	08/11/25 16:03	1
Nitrobenzene-d5 (Surr)	82		36 - 120	07/29/25 18:46	08/11/25 16:03	1
Phenol-d6 (Surr)	20		10 - 120	07/29/25 18:46	08/11/25 16:03	1
p-Terphenyl-d14 (Surr)	86		47 - 131	07/29/25 18:46	08/11/25 16:03	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			08/02/25 17:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		38 - 134		08/02/25 17:23	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		07/28/25 09:17	08/05/25 05:53	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		07/28/25 09:17	08/05/25 05:53	1
C8-C18	<25		25	ug/L		07/28/25 09:17	08/05/25 05:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	102		60 - 130	07/28/25 09:17	08/05/25 05:53	1

Client Sample ID: TB: Halawa Shaft Viewing Pool

Lab Sample ID: 380-162643-2

Date Collected: 07/22/25 09:25

Matrix: Water

Date Received: 07/24/25 10:34

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	<10		10	ug/L			08/03/25 01:29	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-162643-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: TB: Halawa Shaft Viewing Pool

Lab Sample ID: 380-162643-2

Date Collected: 07/22/25 09:25

Matrix: Water

Date Received: 07/24/25 10:34

<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)	80		38 - 134		08/03/25 01:29	1

Action Limit Summary

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

Job ID: 380-162643-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: Halawa Shaft Viewing Pool

Lab Sample ID: 380-162643-1

Compliance Check

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

Analyte	Result	Qualifier	Unit	EPAMCL	RL	Method	Prep Type
				Limit			
Alachlor	<0.048		ug/L	2	0.048	525.2	Total/NA
Atrazine	<0.048		ug/L	3	0.048	525.2	Total/NA
Benzo[a]pyrene	<0.019		ug/L	0.2	0.019	525.2	Total/NA
Bis(2-ethylhexyl) phthalate	<0.58		ug/L	6	0.58	525.2	Total/NA
Di(2-ethylhexyl)adipate	<0.58		ug/L	400	0.58	525.2	Total/NA
Endrin	<0.0096		ug/L	2	0.0096	525.2	Total/NA
Heptachlor	<0.0096		ug/L	0.4	0.0096	525.2	Total/NA
Heptachlor epoxide (isomer B)	<0.0096		ug/L	0.2	0.0096	525.2	Total/NA
Hexachlorobenzene	<0.048		ug/L	1	0.048	525.2	Total/NA
Hexachlorocyclopentadiene	<0.048		ug/L	50	0.048	525.2	Total/NA
Lindane	<0.0096		ug/L	0.2	0.0096	525.2	Total/NA
Methoxychlor	<0.048		ug/L	40	0.048	525.2	Total/NA
Simazine	<0.048		ug/L	4	0.048	525.2	Total/NA
Benzo[a]pyrene	<0.19		ug/L	0.2	0.19	625.1 SIM	Total/NA

Surrogate Summary

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

Job ID: 380-162643-1
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)
380-162118-AS-1-A MS	Matrix Spike	92	101	121
380-162371-G-1-A DU	Duplicate	93	93	114
380-162643-1	Halawa Shaft Viewing Pool	91	92	113
LCS 380-165323/23-A	Lab Control Sample	91	99	116
MB 380-165323/21-A	Method Blank	91	89	113
MRL 380-165323/22-A	Lab Control Sample	92	92	115
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)
380-162643-1	Halawa Shaft Viewing Pool	66	81	50	82	20	86
MB 570-604213/1-A	Method Blank	63	67	53	70	27	79
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)
380-162643-1	Halawa Shaft Viewing Pool	96	82	54	97	33	97
LCS 570-604213/2-A	Lab Control Sample	92	81	63	81	41	89
LCSD 570-604213/3-A	Lab Control Sample Dup	85	74	60	76	41	85
MB 570-604213/1-A	Method Blank	92	70	57	95	36	92
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: 380-162643-1

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)
380-162172-B-1 MS	Matrix Spike	99
380-162172-B-1 MSD	Matrix Spike Duplicate	98
380-162643-1	Halawa Shaft Viewing Pool	82
380-162643-2	TB: Halawa Shaft Viewing Pool	80
LCS 570-606111/1008	Lab Control Sample	99
LCSD 570-606111/9	Lab Control Sample Dup	93
MB 570-606111/10	Method Blank	77
MRL 570-606111/11	Lab Control Sample	79

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)
380-162172-C-1-A MS	Matrix Spike	111
380-162172-C-1-B MSD	Matrix Spike Duplicate	105
380-162643-1	Halawa Shaft Viewing Pool	102
LCS 570-603290/2-A	Lab Control Sample	101
LCSD 570-603290/3-A	Lab Control Sample Dup	103
MB 570-603290/1-A	Method Blank	106
MRL 570-603290/4-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: 380-162643-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MB 380-165323/21-A
Matrix: Water
Analysis Batch: 165571

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 165323

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.099		0.099	ug/L		07/28/25 08:44	07/29/25 11:52	1
2,4'-DDD	<0.099		0.099	ug/L		07/28/25 08:44	07/29/25 11:52	1
2,4'-DDE	<0.099		0.099	ug/L		07/28/25 08:44	07/29/25 11:52	1
2,4'-DDT	<0.099		0.099	ug/L		07/28/25 08:44	07/29/25 11:52	1
2,4-Dinitrotoluene	<0.099		0.099	ug/L		07/28/25 08:44	07/29/25 11:52	1
2,6-Dinitrotoluene	<0.099		0.099	ug/L		07/28/25 08:44	07/29/25 11:52	1
2-Methylnaphthalene	<0.099		0.099	ug/L		07/28/25 08:44	07/29/25 11:52	1
4,4'-DDD	<0.099		0.099	ug/L		07/28/25 08:44	07/29/25 11:52	1
4,4'-DDE	<0.099		0.099	ug/L		07/28/25 08:44	07/29/25 11:52	1
4,4'-DDT	<0.099		0.099	ug/L		07/28/25 08:44	07/29/25 11:52	1
Acenaphthene	<0.099		0.099	ug/L		07/28/25 08:44	07/29/25 11:52	1
Acenaphthylene	<0.099		0.099	ug/L		07/28/25 08:44	07/29/25 11:52	1
Acetochlor	<0.099		0.099	ug/L		07/28/25 08:44	07/29/25 11:52	1
Alachlor	<0.050		0.050	ug/L		07/28/25 08:44	07/29/25 11:52	1
alpha-BHC	<0.099		0.099	ug/L		07/28/25 08:44	07/29/25 11:52	1
alpha-Chlordane	<0.050		0.050	ug/L		07/28/25 08:44	07/29/25 11:52	1
Anthracene	<0.020		0.020	ug/L		07/28/25 08:44	07/29/25 11:52	1
Atrazine	<0.050		0.050	ug/L		07/28/25 08:44	07/29/25 11:52	1
Benz(a)anthracene	<0.050		0.050	ug/L		07/28/25 08:44	07/29/25 11:52	1
Benzo[a]pyrene	<0.020		0.020	ug/L		07/28/25 08:44	07/29/25 11:52	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		07/28/25 08:44	07/29/25 11:52	1
Benzo[g,h,i]perylene	<0.050		0.050	ug/L		07/28/25 08:44	07/29/25 11:52	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		07/28/25 08:44	07/29/25 11:52	1
beta-BHC	<0.099		0.099	ug/L		07/28/25 08:44	07/29/25 11:52	1
Bis(2-ethylhexyl) phthalate	<0.60		0.60	ug/L		07/28/25 08:44	07/29/25 11:52	1
Bromacil	<0.099		0.099	ug/L		07/28/25 08:44	07/29/25 11:52	1
Butachlor	<0.050		0.050	ug/L		07/28/25 08:44	07/29/25 11:52	1
Butylbenzylphthalate	<0.50		0.50	ug/L		07/28/25 08:44	07/29/25 11:52	1
Chlorobenzilate	<0.099		0.099	ug/L		07/28/25 08:44	07/29/25 11:52	1
Chloroneb	<0.099		0.099	ug/L		07/28/25 08:44	07/29/25 11:52	1
Chlorothalonil (Draconil, Bravo)	<0.099		0.099	ug/L		07/28/25 08:44	07/29/25 11:52	1
Chlorpyrifos	<0.050		0.050	ug/L		07/28/25 08:44	07/29/25 11:52	1
Chrysene	<0.020		0.020	ug/L		07/28/25 08:44	07/29/25 11:52	1
delta-BHC	<0.099		0.099	ug/L		07/28/25 08:44	07/29/25 11:52	1
Di(2-ethylhexyl)adipate	<0.60		0.60	ug/L		07/28/25 08:44	07/29/25 11:52	1
Dibenz(a,h)anthracene	<0.050		0.050	ug/L		07/28/25 08:44	07/29/25 11:52	1
Diclorvos (DDVP)	<0.050		0.050	ug/L		07/28/25 08:44	07/29/25 11:52	1
Dieldrin	<0.0099		0.0099	ug/L		07/28/25 08:44	07/29/25 11:52	1
Diethylphthalate	<0.50		0.50	ug/L		07/28/25 08:44	07/29/25 11:52	1
Dimethylphthalate	<0.50		0.50	ug/L		07/28/25 08:44	07/29/25 11:52	1
Di-n-butyl phthalate	<0.99		0.99	ug/L		07/28/25 08:44	07/29/25 11:52	1
Di-n-octyl phthalate	<0.099		0.099	ug/L		07/28/25 08:44	07/29/25 11:52	1
Endosulfan I (Alpha)	<0.099		0.099	ug/L		07/28/25 08:44	07/29/25 11:52	1
Endosulfan II (Beta)	<0.099		0.099	ug/L		07/28/25 08:44	07/29/25 11:52	1
Endosulfan sulfate	<0.099		0.099	ug/L		07/28/25 08:44	07/29/25 11:52	1
Endrin	<0.0099		0.0099	ug/L		07/28/25 08:44	07/29/25 11:52	1
Endrin aldehyde	<0.099		0.099	ug/L		07/28/25 08:44	07/29/25 11:52	1
EPTC	<0.099		0.099	ug/L		07/28/25 08:44	07/29/25 11:52	1

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QC Sample Results

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

Job ID: 380-162643-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MB 380-165323/21-A

Matrix: Water

Analysis Batch: 165571

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 165323

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.099		0.099	ug/L		07/28/25 08:44	07/29/25 11:52	1
Fluorene	<0.050		0.050	ug/L		07/28/25 08:44	07/29/25 11:52	1
gamma-Chlordane	<0.050		0.050	ug/L		07/28/25 08:44	07/29/25 11:52	1
Heptachlor	<0.0099		0.0099	ug/L		07/28/25 08:44	07/29/25 11:52	1
Heptachlor epoxide (isomer B)	<0.0099		0.0099	ug/L		07/28/25 08:44	07/29/25 11:52	1
Hexachlorobenzene	<0.050		0.050	ug/L		07/28/25 08:44	07/29/25 11:52	1
Hexachlorocyclopentadiene	<0.050		0.050	ug/L		07/28/25 08:44	07/29/25 11:52	1
Indeno[1,2,3-cd]pyrene	<0.050		0.050	ug/L		07/28/25 08:44	07/29/25 11:52	1
Isophorone	<0.099		0.099	ug/L		07/28/25 08:44	07/29/25 11:52	1
Lindane	<0.0099		0.0099	ug/L		07/28/25 08:44	07/29/25 11:52	1
Malathion	<0.099		0.099	ug/L		07/28/25 08:44	07/29/25 11:52	1
Methoxychlor	<0.050		0.050	ug/L		07/28/25 08:44	07/29/25 11:52	1
Metolachlor	<0.050		0.050	ug/L		07/28/25 08:44	07/29/25 11:52	1
Molinate	<0.099		0.099	ug/L		07/28/25 08:44	07/29/25 11:52	1
Naphthalene	<0.099		0.099	ug/L		07/28/25 08:44	07/29/25 11:52	1
Parathion	<0.099		0.099	ug/L		07/28/25 08:44	07/29/25 11:52	1
Pendimethalin (Penoxaline)	<0.099		0.099	ug/L		07/28/25 08:44	07/29/25 11:52	1
Phenanthrene	<0.040		0.040	ug/L		07/28/25 08:44	07/29/25 11:52	1
Propachlor	<0.050		0.050	ug/L		07/28/25 08:44	07/29/25 11:52	1
Pyrene	<0.050		0.050	ug/L		07/28/25 08:44	07/29/25 11:52	1
Simazine	<0.050		0.050	ug/L		07/28/25 08:44	07/29/25 11:52	1
Terbacil	<0.099		0.099	ug/L		07/28/25 08:44	07/29/25 11:52	1
Terbutylazine	<0.099		0.099	ug/L		07/28/25 08:44	07/29/25 11:52	1
Thiobencarb	<0.099		0.099	ug/L		07/28/25 08:44	07/29/25 11:52	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		07/28/25 08:44	07/29/25 11:52	1
trans-Nonachlor	<0.050		0.050	ug/L		07/28/25 08:44	07/29/25 11:52	1
Trifluralin	<0.099		0.099	ug/L		07/28/25 08:44	07/29/25 11:52	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tridecane, 6-methyl-	0.646	T J N	ug/L		2.61	13287-21-3	07/28/25 08:44	07/29/25 11:52	1
Decane	2.51	T J N	ug/L		2.74	124-18-5	07/28/25 08:44	07/29/25 11:52	1
Phenol, p-tert-butyl-	0.562	T J N	ug/L		3.82	98-54-4	07/28/25 08:44	07/29/25 11:52	1
9-Octadecenamamide, (Z)-	0.733	T J N	ug/L		7.84	301-02-0	07/28/25 08:44	07/29/25 11:52	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	91		70 - 130	07/28/25 08:44	07/29/25 11:52	1
Perylene-d12	89		70 - 130	07/28/25 08:44	07/29/25 11:52	1
Triphenylphosphate	113		70 - 130	07/28/25 08:44	07/29/25 11:52	1

Lab Sample ID: LCS 380-165323/23-A

Matrix: Water

Analysis Batch: 165571

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 165323

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	1.98	1.84		ug/L		93	70 - 130
2,4'-DDD	1.98	2.22		ug/L		112	70 - 130
2,4'-DDE	1.98	2.08		ug/L		105	70 - 130
2,4'-DDT	1.98	2.05		ug/L		103	70 - 130

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QC Sample Results

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

Job ID: 380-162643-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCS 380-165323/23-A

Matrix: Water

Analysis Batch: 165571

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 165323

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4-Dinitrotoluene	1.98	2.14		ug/L		108	70 - 130
2,6-Dinitrotoluene	1.98	1.88		ug/L		95	70 - 130
2-Methylnaphthalene	1.98	1.86		ug/L		94	70 - 130
4,4'-DDD	1.98	2.19		ug/L		111	70 - 130
4,4'-DDE	1.98	2.23		ug/L		112	70 - 130
4,4'-DDT	1.98	2.00		ug/L		101	70 - 130
Acenaphthene	1.98	1.86		ug/L		94	70 - 130
Acenaphthylene	1.98	1.98		ug/L		100	70 - 130
Acetochlor	1.98	2.06		ug/L		104	70 - 130
Alachlor	1.98	2.07		ug/L		104	70 - 130
alpha-BHC	1.98	1.92		ug/L		97	70 - 130
alpha-Chlordane	1.98	2.42		ug/L		122	70 - 130
Anthracene	1.98	2.09		ug/L		106	70 - 130
Atrazine	1.98	2.09		ug/L		105	70 - 130
Benz(a)anthracene	1.98	2.06		ug/L		104	70 - 130
Benzo[a]pyrene	1.98	2.23		ug/L		113	70 - 130
Benzo[b]fluoranthene	1.98	2.19		ug/L		110	70 - 130
Benzo[g,h,i]perylene	1.98	1.96		ug/L		99	70 - 130
Benzo[k]fluoranthene	1.98	2.12		ug/L		107	70 - 130
beta-BHC	1.98	1.96		ug/L		99	70 - 130
Bis(2-ethylhexyl) phthalate	1.98	1.83		ug/L		92	70 - 130
Bromacil	1.98	2.11		ug/L		106	70 - 130
Butachlor	1.98	2.06		ug/L		104	70 - 130
Butylbenzylphthalate	1.98	1.98		ug/L		100	70 - 130
Chlorobenzilate	1.98	1.88		ug/L		95	70 - 130
Chloroneb	1.98	1.94		ug/L		98	70 - 130
Chlorothalonil (Draconil, Bravo)	1.98	2.23		ug/L		113	70 - 130
Chlorpyrifos	1.98	2.14		ug/L		108	70 - 130
Chrysene	1.98	2.00		ug/L		101	70 - 130
delta-BHC	1.98	1.86		ug/L		94	70 - 130
Di(2-ethylhexyl)adipate	1.98	1.95		ug/L		98	70 - 130
Dibenz(a,h)anthracene	1.98	2.03		ug/L		103	70 - 130
Diclorvos (DDVP)	1.98	1.95		ug/L		98	70 - 130
Dieldrin	1.98	2.01		ug/L		102	70 - 130
Diethylphthalate	1.98	2.01		ug/L		101	70 - 130
Dimethylphthalate	1.98	1.98		ug/L		100	70 - 130
Di-n-butyl phthalate	3.97	4.73		ug/L		119	70 - 130
Di-n-octyl phthalate	1.98	1.98		ug/L		100	70 - 130
Endosulfan I (Alpha)	1.98	1.94		ug/L		98	70 - 130
Endosulfan II (Beta)	1.98	1.89		ug/L		96	70 - 130
Endosulfan sulfate	1.98	1.96		ug/L		99	70 - 130
Endrin	1.98	2.26		ug/L		114	70 - 130
Endrin aldehyde	1.98	2.27		ug/L		115	60 - 130
EPTC	1.98	1.99		ug/L		100	70 - 130
Fluoranthene	1.98	2.11		ug/L		106	70 - 130
Fluorene	1.98	1.96		ug/L		99	70 - 130
gamma-Chlordane	1.98	2.40		ug/L		121	70 - 130
Heptachlor	1.98	2.29		ug/L		115	70 - 130
Heptachlor epoxide (isomer B)	1.98	2.31		ug/L		117	70 - 130

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QC Sample Results

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

Job ID: 380-162643-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCS 380-165323/23-A

Matrix: Water

Analysis Batch: 165571

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 165323

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Hexachlorobenzene	1.98	2.06		ug/L		104	70 - 130
Hexachlorocyclopentadiene	1.98	2.21		ug/L		112	70 - 130
Indeno[1,2,3-cd]pyrene	1.98	2.23		ug/L		113	70 - 130
Isophorone	1.98	2.07		ug/L		104	70 - 130
Lindane	1.98	2.06		ug/L		104	70 - 130
Malathion	1.98	2.09		ug/L		106	70 - 130
Methoxychlor	1.98	2.21		ug/L		111	70 - 130
Metolachlor	1.98	2.18		ug/L		110	70 - 130
Molinate	1.98	1.99		ug/L		101	70 - 130
Naphthalene	1.98	1.87		ug/L		94	70 - 130
Parathion	1.98	1.95		ug/L		99	70 - 130
Pendimethalin (Penoxaline)	1.98	2.36		ug/L		119	70 - 130
Phenanthrene	1.98	1.87		ug/L		94	70 - 130
Propachlor	1.98	1.94		ug/L		98	70 - 130
Pyrene	1.98	2.17		ug/L		109	70 - 130
Simazine	1.98	2.00		ug/L		101	70 - 130
Terbacil	1.98	2.06		ug/L		104	70 - 130
Terbuthylazine	1.98	2.06		ug/L		104	70 - 130
Thiobencarb	1.98	2.05		ug/L		103	70 - 130
trans-Nonachlor	1.98	2.57		ug/L		129	70 - 130
Trifluralin	1.98	2.24		ug/L		113	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Nitro-m-xylene	91		70 - 130
Perylene-d12	99		70 - 130
Triphenylphosphate	116		70 - 130

Lab Sample ID: MRL 380-165323/22-A

Matrix: Water

Analysis Batch: 165571

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 165323

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	0.0993	0.118		ug/L		119	50 - 150
2,4'-DDD	0.0993	0.0960	J	ug/L		97	50 - 150
2,4'-DDE	0.0993	0.102		ug/L		103	50 - 150
2,4'-DDT	0.0993	0.125		ug/L		126	50 - 150
2,4-Dinitrotoluene	0.0993	0.113		ug/L		113	50 - 150
2,6-Dinitrotoluene	0.0993	0.109		ug/L		110	50 - 150
2-Methylnaphthalene	0.0993	0.105		ug/L		106	50 - 150
4,4'-DDD	0.0993	0.108		ug/L		109	50 - 150
4,4'-DDE	0.0993	0.101		ug/L		102	50 - 150
4,4'-DDT	0.0993	0.124		ug/L		124	50 - 150
Acenaphthene	0.0993	0.0902	J	ug/L		91	50 - 150
Acenaphthylene	0.0993	0.0893	J	ug/L		90	50 - 150
Acetochlor	0.0993	0.110		ug/L		110	50 - 150
Alachlor	0.0497	0.0553		ug/L		111	50 - 150
alpha-BHC	0.0993	0.0989	J	ug/L		100	50 - 150
alpha-Chlordane	0.0248	0.0320	J	ug/L		129	50 - 150

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-162643-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MRL 380-165323/22-A

Matrix: Water

Analysis Batch: 165571

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 165323

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Anthracene	0.0199	0.0235		ug/L		118	50 - 150
Atrazine	0.0497	0.0575		ug/L		116	50 - 150
Benz(a)anthracene	0.0497	0.0552		ug/L		111	50 - 150
Benzo[a]pyrene	0.0199	0.0249		ug/L		125	50 - 150
Benzo[b]fluoranthene	0.0199	0.0260		ug/L		131	50 - 150
Benzo[g,h,i]perylene	0.0497	0.0560		ug/L		113	50 - 150
Benzo[k]fluoranthene	0.0199	0.0281		ug/L		141	50 - 150
beta-BHC	0.0993	0.0975	J	ug/L		98	50 - 150
Bis(2-ethylhexyl) phthalate	0.596	0.556	J	ug/L		93	50 - 150
Bromacil	0.0993	0.127		ug/L		128	50 - 150
Butachlor	0.0497	0.0653		ug/L		131	50 - 150
Butylbenzylphthalate	0.497	0.513		ug/L		103	50 - 150
Chlorobenzilate	0.0993	0.109		ug/L		110	50 - 150
Chloroneb	0.0993	0.105		ug/L		106	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0993	0.0920	J	ug/L		93	50 - 150
Chlorpyrifos	0.0497	0.0604		ug/L		122	50 - 150
Chrysene	0.0199	0.0224		ug/L		113	50 - 150
delta-BHC	0.0993	0.0943	J	ug/L		95	50 - 150
Di(2-ethylhexyl)adipate	0.596	0.598	J	ug/L		100	50 - 150
Dibenz(a,h)anthracene	0.0497	0.0618		ug/L		124	50 - 150
Diclorvos (DDVP)	0.0497	0.0541		ug/L		109	50 - 150
Dieldrin	0.00993	0.00922	J	ug/L		93	50 - 150
Diethylphthalate	0.497	0.518		ug/L		104	50 - 150
Dimethylphthalate	0.497	0.506		ug/L		102	50 - 150
Di-n-butyl phthalate	0.497	0.703	J	ug/L		142	49 - 243
Di-n-octyl phthalate	0.0993	0.106		ug/L		106	50 - 150
Endosulfan I (Alpha)	0.0993	0.101		ug/L		102	50 - 150
Endosulfan II (Beta)	0.0993	0.103		ug/L		104	50 - 150
Endosulfan sulfate	0.0993	0.126		ug/L		126	50 - 150
Endrin	0.00993	0.0129		ug/L		130	50 - 150
Endrin aldehyde	0.0993	0.138		ug/L		139	50 - 150
EPTC	0.0993	0.0993		ug/L		100	50 - 150
Fluoranthene	0.0993	0.0988	J	ug/L		99	50 - 150
Fluorene	0.0497	<0.050		ug/L		99	50 - 150
gamma-Chlordane	0.0248	0.0283	J	ug/L		114	50 - 150
Heptachlor	0.00993	0.0122		ug/L		123	50 - 150
Heptachlor epoxide (isomer B)	0.00993	0.0123		ug/L		124	50 - 150
Hexachlorobenzene	0.0497	0.0506		ug/L		102	50 - 150
Hexachlorocyclopentadiene	0.0497	0.0509		ug/L		102	50 - 150
Indeno[1,2,3-cd]pyrene	0.0497	0.0633		ug/L		128	50 - 150
Isophorone	0.0993	0.123		ug/L		124	50 - 150
Lindane	0.00993	0.0104		ug/L		104	50 - 150
Malathion	0.0993	0.118		ug/L		119	50 - 150
Methoxychlor	0.0497	0.0665		ug/L		134	50 - 150
Metolachlor	0.0497	0.0600		ug/L		121	50 - 150
Molinate	0.0993	0.0998		ug/L		100	50 - 150
Naphthalene	0.0993	0.0916	J	ug/L		92	50 - 150
Parathion	0.0993	0.107		ug/L		108	50 - 150
Pendimethalin (Penoxaline)	0.0993	0.139		ug/L		140	50 - 150

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-162643-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MRL 380-165323/22-A

Matrix: Water

Analysis Batch: 165571

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 165323

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Phenanthrene	0.0397	0.0420		ug/L		106	50 - 150
Propachlor	0.0497	0.0575		ug/L		116	50 - 150
Pyrene	0.0497	0.0498	J	ug/L		100	50 - 150
Simazine	0.0497	0.0587		ug/L		118	50 - 150
Terbacil	0.0993	0.117		ug/L		118	50 - 150
Terbutylazine	0.0993	0.114		ug/L		115	50 - 150
Thiobencarb	0.0993	0.100		ug/L		101	50 - 150
trans-Nonachlor	0.0248	0.0344	J	ug/L		139	50 - 150
Trifluralin	0.0993	0.134		ug/L		135	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
2-Nitro-m-xylene	92		70 - 130
Perylene-d12	92		70 - 130
Triphenylphosphate	115		70 - 130

Lab Sample ID: 380-162118-AS-1-A MS

Matrix: Water

Analysis Batch: 165571

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 165323

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.097		1.94	1.84		ug/L		94	70 - 130
2,4'-DDD	<0.097		1.94	2.30		ug/L		119	70 - 130
2,4'-DDE	<0.097		1.94	2.13		ug/L		110	70 - 130
2,4'-DDT	<0.097		1.94	2.12		ug/L		110	70 - 130
2,4-Dinitrotoluene	<0.097		1.94	2.21		ug/L		114	70 - 130
2,6-Dinitrotoluene	<0.097		1.94	1.88		ug/L		97	70 - 130
2-Methylnaphthalene	<0.097		1.94	1.84		ug/L		95	70 - 130
4,4'-DDD	<0.097		1.94	2.27		ug/L		117	70 - 130
4,4'-DDE	<0.097		1.94	2.27		ug/L		117	70 - 130
4,4'-DDT	<0.097		1.94	2.08		ug/L		107	70 - 130
Acenaphthene	<0.097		1.94	1.84		ug/L		95	70 - 130
Acenaphthylene	<0.097		1.94	2.04		ug/L		105	70 - 130
Acetochlor	<0.097		1.94	2.12		ug/L		109	70 - 130
Alachlor	<0.048		1.94	2.11		ug/L		109	70 - 130
alpha-BHC	<0.097		1.94	1.95		ug/L		100	70 - 130
alpha-Chlordane	<0.048		1.94	2.45		ug/L		127	70 - 130
Anthracene	<0.019		1.94	1.52		ug/L		79	70 - 130
Atrazine	<0.048		1.94	2.11		ug/L		108	70 - 130
Benz(a)anthracene	<0.048		1.94	2.02		ug/L		104	70 - 130
Benzo[a]pyrene	<0.019		1.94	2.11		ug/L		109	70 - 130
Benzo[b]fluoranthene	<0.019		1.94	2.20		ug/L		114	70 - 130
Benzo[g,h,i]perylene	<0.048		1.94	1.99		ug/L		103	70 - 130
Benzo[k]fluoranthene	<0.019		1.94	2.09		ug/L		108	70 - 130
beta-BHC	<0.097		1.94	1.98		ug/L		102	70 - 130
Bis(2-ethylhexyl) phthalate	<0.58		1.94	1.84		ug/L		95	70 - 130
Bromacil	<0.097		1.94	2.15		ug/L		111	70 - 130
Butachlor	<0.048		1.94	2.12		ug/L		109	70 - 130
Butylbenzylphthalate	<0.48		1.94	2.04		ug/L		105	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-162643-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: 380-162118-AS-1-A MS

Matrix: Water

Analysis Batch: 165571

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 165323

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chlorobenzilate	<0.097		1.94	2.00		ug/L		103	70 - 130
Chloroneb	<0.097		1.94	1.91		ug/L		99	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.097		1.94	2.29		ug/L		118	70 - 130
Chlorpyrifos	<0.048		1.94	2.21		ug/L		114	70 - 130
Chrysene	<0.019		1.94	1.94		ug/L		100	70 - 130
delta-BHC	<0.097		1.94	1.87		ug/L		96	70 - 130
Di(2-ethylhexyl)adipate	<0.58		1.94	1.97		ug/L		102	70 - 130
Dibenz(a,h)anthracene	<0.048		1.94	2.08		ug/L		107	70 - 130
Diclorvos (DDVP)	<0.048		1.94	1.96		ug/L		101	70 - 130
Dieldrin	<0.0097		1.94	2.07		ug/L		107	70 - 130
Diethylphthalate	<0.48		1.94	2.08		ug/L		107	70 - 130
Dimethylphthalate	<0.48		1.94	2.01		ug/L		104	70 - 130
Di-n-butyl phthalate	<0.97		3.87	4.72		ug/L		114	70 - 130
Di-n-octyl phthalate	<0.097		1.94	1.99		ug/L		102	70 - 130
Endosulfan I (Alpha)	<0.097		1.94	1.95		ug/L		100	70 - 130
Endosulfan II (Beta)	<0.097		1.94	1.95		ug/L		101	70 - 130
Endosulfan sulfate	<0.097		1.94	2.01		ug/L		104	70 - 130
Endrin	<0.0097		1.94	2.22		ug/L		114	70 - 130
Endrin aldehyde	<0.097		1.94	2.00		ug/L		103	60 - 130
EPTC	<0.097		1.94	1.97		ug/L		102	70 - 130
Fluoranthene	<0.097		1.94	2.16		ug/L		111	70 - 130
Fluorene	<0.048		1.94	1.97		ug/L		102	70 - 130
gamma-Chlordane	<0.048		1.94	2.42		ug/L		125	70 - 130
Heptachlor	<0.0097		1.94	2.37		ug/L		122	70 - 130
Heptachlor epoxide (isomer B)	<0.0097		1.94	2.38		ug/L		123	70 - 130
Hexachlorobenzene	<0.048		1.94	2.07		ug/L		107	70 - 130
Hexachlorocyclopentadiene	<0.048		1.94	2.31		ug/L		119	70 - 130
Indeno[1,2,3-cd]pyrene	<0.048		1.94	2.32		ug/L		120	70 - 130
Isophorone	<0.097		1.94	2.08		ug/L		108	70 - 130
Lindane	<0.0097		1.94	2.11		ug/L		109	70 - 130
Malathion	<0.097		1.94	2.18		ug/L		113	70 - 130
Methoxychlor	<0.048		1.94	2.32		ug/L		120	70 - 130
Metolachlor	<0.048		1.94	2.20		ug/L		114	70 - 130
Molinate	<0.097		1.94	2.04		ug/L		105	70 - 130
Naphthalene	<0.097		1.94	1.82		ug/L		94	70 - 130
Parathion	<0.097		1.94	2.09		ug/L		108	70 - 130
Pendimethalin (Penoxaline)	<0.097	F1	1.94	2.54	F1	ug/L		131	70 - 130
Phenanthrene	<0.039		1.94	1.84		ug/L		95	70 - 130
Propachlor	<0.048		1.94	2.03		ug/L		105	70 - 130
Pyrene	<0.048		1.94	2.16		ug/L		111	70 - 130
Simazine	<0.048		1.94	1.95		ug/L		101	70 - 130
Terbacil	<0.097		1.94	2.02		ug/L		104	70 - 130
Terbutylazine	<0.097		1.94	2.10		ug/L		108	70 - 130
Thiobencarb	<0.097		1.94	2.11		ug/L		109	70 - 130
trans-Nonachlor	<0.048	F1	1.94	2.56	F1	ug/L		132	70 - 130
Trifluralin	<0.097		1.94	2.42		ug/L		125	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-162643-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: 380-162118-AS-1-A MS

Matrix: Water

Analysis Batch: 165571

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 165323

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
2-Nitro-m-xylene	92		70 - 130
Perylene-d12	101		70 - 130
Triphenylphosphate	121		70 - 130

Lab Sample ID: 380-162371-G-1-A DU

Matrix: Water

Analysis Batch: 165571

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 165323

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
1-Methylnaphthalene	<0.095		<0.096		ug/L		NC	20
2,4'-DDD	<0.095		<0.096		ug/L		NC	20
2,4'-DDE	<0.095		<0.096		ug/L		NC	20
2,4'-DDT	<0.095		<0.096		ug/L		NC	20
2,4-Dinitrotoluene	<0.095		<0.096		ug/L		NC	20
2,6-Dinitrotoluene	<0.095		<0.096		ug/L		NC	20
2-Methylnaphthalene	<0.095		<0.096		ug/L		NC	20
4,4'-DDD	<0.095		<0.096		ug/L		NC	20
4,4'-DDE	<0.095		<0.096		ug/L		NC	20
4,4'-DDT	<0.095		<0.096		ug/L		NC	20
Acenaphthene	<0.095		<0.096		ug/L		NC	20
Acenaphthylene	<0.095		<0.096		ug/L		NC	20
Acetochlor	<0.095		<0.096		ug/L		NC	20
Alachlor	<0.048		<0.048		ug/L		NC	20
alpha-BHC	<0.095		<0.096		ug/L		NC	20
alpha-Chlordane	<0.048		<0.048		ug/L		NC	20
Anthracene	<0.019		<0.019		ug/L		NC	20
Atrazine	<0.048		<0.048		ug/L		NC	20
Benz(a)anthracene	<0.048		<0.048		ug/L		NC	20
Benzo[a]pyrene	<0.019		<0.019		ug/L		NC	20
Benzo[b]fluoranthene	<0.019		<0.019		ug/L		NC	20
Benzo[g,h,i]perylene	<0.048		<0.048		ug/L		NC	20
Benzo[k]fluoranthene	<0.019		<0.019		ug/L		NC	20
beta-BHC	<0.095		<0.096		ug/L		NC	20
Bis(2-ethylhexyl) phthalate	<0.57		<0.58		ug/L		NC	20
Bromacil	<0.095		<0.096		ug/L		NC	20
Butachlor	<0.048		<0.048		ug/L		NC	20
Butylbenzylphthalate	<0.48		<0.48		ug/L		NC	20
Chlorobenzilate	<0.095		<0.096		ug/L		NC	20
Chloroneb	<0.095		<0.096		ug/L		NC	20
Chlorothalonil (Draconil, Bravo)	<0.095		<0.096		ug/L		NC	20
Chlorpyrifos	<0.048		<0.048		ug/L		NC	20
Chrysene	<0.019		<0.019		ug/L		NC	20
delta-BHC	<0.095		<0.096		ug/L		NC	20
Di(2-ethylhexyl)adipate	<0.57		<0.58		ug/L		NC	20
Dibenz(a,h)anthracene	<0.048		<0.048		ug/L		NC	20
Diclorvos (DDVP)	<0.048		<0.048		ug/L		NC	20
Dieldrin	<0.0095		<0.0096		ug/L		NC	20
Diethylphthalate	<0.48		<0.48		ug/L		NC	20

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-162643-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: 380-162371-G-1-A DU

Matrix: Water

Analysis Batch: 165571

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 165323

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Dimethylphthalate	<0.48		<0.48		ug/L		NC	20
Di-n-butyl phthalate	<0.95		<0.96		ug/L		NC	20
Di-n-octyl phthalate	<0.095		<0.096		ug/L		NC	20
Endosulfan I (Alpha)	<0.095		<0.096		ug/L		NC	20
Endosulfan II (Beta)	<0.095		<0.096		ug/L		NC	20
Endosulfan sulfate	<0.095		<0.096		ug/L		NC	20
Endrin	<0.0095		<0.0096		ug/L		NC	20
Endrin aldehyde	<0.095		<0.096		ug/L		NC	20
EPTC	<0.095		<0.096		ug/L		NC	20
Fluoranthene	<0.095		<0.096		ug/L		NC	20
Fluorene	<0.048		<0.048		ug/L		NC	20
gamma-Chlordane	<0.048		<0.048		ug/L		NC	20
Heptachlor	<0.0095		<0.0096		ug/L		NC	20
Heptachlor epoxide (isomer B)	<0.0095		<0.0096		ug/L		NC	20
Hexachlorobenzene	<0.048		<0.048		ug/L		NC	20
Hexachlorocyclopentadiene	<0.048		<0.048		ug/L		NC	20
Indeno[1,2,3-cd]pyrene	<0.048		<0.048		ug/L		NC	20
Isophorone	<0.095		<0.096		ug/L		NC	20
Lindane	<0.0095		<0.0096		ug/L		NC	20
Malathion	<0.095		<0.096		ug/L		NC	20
Methoxychlor	<0.048		<0.048		ug/L		NC	20
Metolachlor	<0.048		<0.048		ug/L		NC	20
Molinate	<0.095		<0.096		ug/L		NC	20
Naphthalene	<0.095		<0.096		ug/L		NC	20
Parathion	<0.095		<0.096		ug/L		NC	20
Pendimethalin (Penoxaline)	<0.095		<0.096		ug/L		NC	20
Phenanthrene	<0.038		<0.038		ug/L		NC	20
Propachlor	<0.048		<0.048		ug/L		NC	20
Pyrene	<0.048		<0.048		ug/L		NC	20
Simazine	<0.048		<0.048		ug/L		NC	20
Terbacil	<0.095		<0.096		ug/L		NC	20
Terbutylazine	<0.095		<0.096		ug/L		NC	20
Thiobencarb	<0.095		<0.096		ug/L		NC	20
Total Permethrin (mixed isomers)	<0.19		<0.19		ug/L		NC	20
trans-Nonachlor	<0.048		<0.048		ug/L		NC	20
Trifluralin	<0.095		<0.096		ug/L		NC	20

Surrogate	%Recovery	Qualifier	Limits
2-Nitro-m-xylene	93		70 - 130
Perylene-d12	93		70 - 130
Triphenylphosphate	114		70 - 130

QC Sample Results

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

Job ID: 380-162643-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MB 570-604213/1-A
Matrix: Water
Analysis Batch: 609756

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 604213

<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>	07/29/25 18:46	08/11/25 15:38	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>MB MB Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
2,4,6-Tribromophenol (Surr)	63		33 - 139				07/29/25 18:46	08/11/25 15:38	1
2-Fluorobiphenyl (Surr)	67		33 - 126				07/29/25 18:46	08/11/25 15:38	1
2-Fluorophenol (Surr)	53		12 - 120				07/29/25 18:46	08/11/25 15:38	1
Nitrobenzene-d5 (Surr)	70		36 - 120				07/29/25 18:46	08/11/25 15:38	1
Phenol-d6 (Surr)	27		10 - 120				07/29/25 18:46	08/11/25 15:38	1
p-Terphenyl-d14 (Surr)	79		47 - 131				07/29/25 18:46	08/11/25 15:38	1

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

Lab Sample ID: MB 570-604213/1-A
Matrix: Water
Analysis Batch: 608212

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 604213

<i>Analyte</i>	<i>Result</i>	<i>MB MB Qualifier</i>	<i>RL</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1-Methylnaphthalene	<0.20		0.20	ug/L		07/29/25 18:46	08/07/25 07:56	1
2-Methylnaphthalene	<0.20		0.20	ug/L		07/29/25 18:46	08/07/25 07:56	1
Acenaphthene	<0.20		0.20	ug/L		07/29/25 18:46	08/07/25 07:56	1
Acenaphthylene	<0.20		0.20	ug/L		07/29/25 18:46	08/07/25 07:56	1
Anthracene	<0.20		0.20	ug/L		07/29/25 18:46	08/07/25 07:56	1
Benzo[a]anthracene	<0.20		0.20	ug/L		07/29/25 18:46	08/07/25 07:56	1
Benzo[a]pyrene	<0.20		0.20	ug/L		07/29/25 18:46	08/07/25 07:56	1
Benzo[b]fluoranthene	<0.20		0.20	ug/L		07/29/25 18:46	08/07/25 07:56	1
Benzo[g,h,i]perylene	<0.20		0.20	ug/L		07/29/25 18:46	08/07/25 07:56	1
Benzo[k]fluoranthene	<0.20		0.20	ug/L		07/29/25 18:46	08/07/25 07:56	1
Chrysene	<0.20		0.20	ug/L		07/29/25 18:46	08/07/25 07:56	1
Dibenz(a,h)anthracene	<0.20		0.20	ug/L		07/29/25 18:46	08/07/25 07:56	1
Fluoranthene	<0.20		0.20	ug/L		07/29/25 18:46	08/07/25 07:56	1
Fluorene	<0.20		0.20	ug/L		07/29/25 18:46	08/07/25 07:56	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20	ug/L		07/29/25 18:46	08/07/25 07:56	1
Naphthalene	<0.20		0.20	ug/L		07/29/25 18:46	08/07/25 07:56	1
Phenanthrene	<0.20		0.20	ug/L		07/29/25 18:46	08/07/25 07:56	1
Pyrene	<0.20		0.20	ug/L		07/29/25 18:46	08/07/25 07:56	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>MB MB Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
2,4,6-Tribromophenol (Surr)	92		28 - 127			07/29/25 18:46	08/07/25 07:56	1
2-Fluorobiphenyl (Surr)	70		31 - 120			07/29/25 18:46	08/07/25 07:56	1
2-Fluorophenol (Surr)	57		17 - 120			07/29/25 18:46	08/07/25 07:56	1
Nitrobenzene-d5 (Surr)	95		27 - 120			07/29/25 18:46	08/07/25 07:56	1
Phenol-d6 (Surr)	36		10 - 120			07/29/25 18:46	08/07/25 07:56	1
p-Terphenyl-d14 (Surr)	92		45 - 120			07/29/25 18:46	08/07/25 07:56	1

QC Sample Results

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

Job ID: 380-162643-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCS 570-604213/2-A

Matrix: Water

Analysis Batch: 608212

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 604213

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	20.0	15.8		ug/L		79	47 - 120
2-Methylnaphthalene	20.0	15.5		ug/L		77	43 - 120
Acenaphthene	20.0	18.5		ug/L		92	60 - 132
Acenaphthylene	20.0	19.3		ug/L		97	54 - 126
Anthracene	20.0	19.3		ug/L		97	43 - 120
Benzo[a]anthracene	20.0	20.0		ug/L		100	42 - 133
Benzo[a]pyrene	20.0	20.9		ug/L		104	32 - 148
Benzo[b]fluoranthene	20.0	20.8		ug/L		104	42 - 140
Benzo[g,h,i]perylene	20.0	20.7		ug/L		103	1 - 195
Benzo[k]fluoranthene	20.0	20.9		ug/L		105	25 - 146
Chrysene	20.0	19.7		ug/L		99	44 - 140
Dibenz(a,h)anthracene	20.0	20.7		ug/L		104	1 - 200
Fluoranthene	20.0	20.7		ug/L		103	43 - 121
Fluorene	20.0	19.6		ug/L		98	70 - 120
Indeno[1,2,3-cd]pyrene	20.0	20.4		ug/L		102	1 - 151
Naphthalene	20.0	15.0		ug/L		75	36 - 120
Phenanthrene	20.0	19.3		ug/L		96	65 - 120
Pyrene	20.0	19.7		ug/L		98	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	92		28 - 127
2-Fluorobiphenyl (Surr)	81		31 - 120
2-Fluorophenol (Surr)	63		17 - 120
Nitrobenzene-d5 (Surr)	81		27 - 120
Phenol-d6 (Surr)	41		10 - 120
p-Terphenyl-d14 (Surr)	89		45 - 120

Lab Sample ID: LCSD 570-604213/3-A

Matrix: Water

Analysis Batch: 608212

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 604213

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	20.0	15.0		ug/L		75	47 - 120	5	20
2-Methylnaphthalene	20.0	14.6		ug/L		73	43 - 120	6	20
Acenaphthene	20.0	17.3		ug/L		86	60 - 132	7	29
Acenaphthylene	20.0	17.9		ug/L		90	54 - 126	8	45
Anthracene	20.0	18.2		ug/L		91	43 - 120	6	40
Benzo[a]anthracene	20.0	18.8		ug/L		94	42 - 133	6	32
Benzo[a]pyrene	20.0	19.5		ug/L		98	32 - 148	7	43
Benzo[b]fluoranthene	20.0	19.7		ug/L		98	42 - 140	6	43
Benzo[g,h,i]perylene	20.0	20.0		ug/L		100	1 - 195	3	61
Benzo[k]fluoranthene	20.0	19.6		ug/L		98	25 - 146	6	38
Chrysene	20.0	18.5		ug/L		93	44 - 140	6	53
Dibenz(a,h)anthracene	20.0	20.2		ug/L		101	1 - 200	3	75
Fluoranthene	20.0	19.3		ug/L		96	43 - 121	7	40
Fluorene	20.0	18.4		ug/L		92	70 - 120	6	23
Indeno[1,2,3-cd]pyrene	20.0	19.8		ug/L		99	1 - 151	3	60
Naphthalene	20.0	14.4		ug/L		72	36 - 120	4	39

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-162643-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCSD 570-604213/3-A

Matrix: Water

Analysis Batch: 608212

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 604213

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenanthrene	20.0	18.4		ug/L		92	65 - 120	5	24
Pyrene	20.0	18.8		ug/L		94	70 - 120	5	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	85		28 - 127
2-Fluorobiphenyl (Surr)	74		31 - 120
2-Fluorophenol (Surr)	60		17 - 120
Nitrobenzene-d5 (Surr)	76		27 - 120
Phenol-d6 (Surr)	41		10 - 120
p-Terphenyl-d14 (Surr)	85		45 - 120

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

Lab Sample ID: MB 570-606111/10

Matrix: Water

Analysis Batch: 606111

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			08/02/25 14:28	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		38 - 134		08/02/25 14:28	1

Lab Sample ID: LCS 570-606111/1008

Matrix: Water

Analysis Batch: 606111

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	387		ug/L		97	78 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		38 - 134

Lab Sample ID: LCSD 570-606111/9

Matrix: Water

Analysis Batch: 606111

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	392		ug/L		98	78 - 120	1	10

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		38 - 134

QC Sample Results

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

Job ID: 380-162643-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MRL 570-606111/11

Matrix: Water

Analysis Batch: 606111

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	8.73	J	ug/L		87	50 - 150		
Surrogate		MRL	MRL								
	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	79		38 - 134								

Lab Sample ID: 380-162172-B-1 MS

Matrix: Water

Analysis Batch: 606111

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	398		ug/L		100	68 - 122		
Surrogate	MS %Recovery	MS Qualifier	Limits								
4-Bromofluorobenzene (Surr)	99		38 - 134								

Lab Sample ID: 380-162172-B-1 MSD

Matrix: Water

Analysis Batch: 606111

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	Limit
Gasoline Range Organics (C4-C13)	<10		400	409		ug/L		102	68 - 122	3	18
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	98		38 - 134								

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

Lab Sample ID: MB 570-603290/1-A

Matrix: Water

Analysis Batch: 606862

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 603290

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<25		25	ug/L		07/28/25 09:17	08/05/25 00:25	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		07/28/25 09:17	08/05/25 00:25	1
C8-C18	<25		25	ug/L		07/28/25 09:17	08/05/25 00:25	1
	MB	MB						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	106		60 - 130			07/28/25 09:17	08/05/25 00:25	1

Lab Sample ID: LCS 570-603290/2-A

Matrix: Water

Analysis Batch: 606862

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 603290

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
C10-C28	1600	1590		ug/L		100	56 - 127

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-162643-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCS 570-603290/2-A

Matrix: Water

Analysis Batch: 606862

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 603290

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
n-Octacosane (Surr)	101		60 - 130

Lab Sample ID: LCSD 570-603290/3-A

Matrix: Water

Analysis Batch: 606862

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 603290

	Spike	LCSD	LCSD						%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
C10-C28	1600	1520		ug/L		95	56 - 127	5	23	

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
n-Octacosane (Surr)	103		60 - 130

Lab Sample ID: MRL 570-603290/4-A

Matrix: Water

Analysis Batch: 606862

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 603290

	Spike	MRL	MRL						%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits			
C10-C28	0.0200	0.0237	J	mg/L		119	50 - 150			

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

Lab Sample ID: 380-162172-C-1-A MS

Matrix: Water

Analysis Batch: 606862

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 603290

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
C10-C28	<26		1660	1710		ug/L		103	70 - 130	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
n-Octacosane (Surr)	111		60 - 130

Lab Sample ID: 380-162172-C-1-B MSD

Matrix: Water

Analysis Batch: 606862

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 603290

	Sample	Sample	Spike	MSD	MSD				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD
C10-C28	<26		1680	1640		ug/L		98	70 - 130	4

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
n-Octacosane (Surr)	105		60 - 130

QC Association Summary

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

Job ID: 380-162643-1
SDG: Weekly: Halawa Shaft Viewing Pool

GC/MS Semi VOA

Prep Batch: 165323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-162643-1	Halawa Shaft Viewing Pool	Total/NA	Water	525.2	
MB 380-165323/21-A	Method Blank	Total/NA	Water	525.2	
LCS 380-165323/23-A	Lab Control Sample	Total/NA	Water	525.2	
MRL 380-165323/22-A	Lab Control Sample	Total/NA	Water	525.2	
380-162118-AS-1-A MS	Matrix Spike	Total/NA	Water	525.2	
380-162371-G-1-A DU	Duplicate	Total/NA	Water	525.2	

Analysis Batch: 165571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-162643-1	Halawa Shaft Viewing Pool	Total/NA	Water	525.2	165323
MB 380-165323/21-A	Method Blank	Total/NA	Water	525.2	165323
LCS 380-165323/23-A	Lab Control Sample	Total/NA	Water	525.2	165323
MRL 380-165323/22-A	Lab Control Sample	Total/NA	Water	525.2	165323
380-162118-AS-1-A MS	Matrix Spike	Total/NA	Water	525.2	165323
380-162371-G-1-A DU	Duplicate	Total/NA	Water	525.2	165323

Prep Batch: 604213

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-162643-1	Halawa Shaft Viewing Pool	Total/NA	Water	625.1	
MB 570-604213/1-A	Method Blank	Total/NA	Water	625.1	
LCS 570-604213/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 570-604213/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	

Analysis Batch: 608212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-162643-1	Halawa Shaft Viewing Pool	Total/NA	Water	625.1 SIM	604213
MB 570-604213/1-A	Method Blank	Total/NA	Water	625.1 SIM	604213
LCS 570-604213/2-A	Lab Control Sample	Total/NA	Water	625.1 SIM	604213
LCSD 570-604213/3-A	Lab Control Sample Dup	Total/NA	Water	625.1 SIM	604213

Analysis Batch: 609756

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-162643-1	Halawa Shaft Viewing Pool	Total/NA	Water	625.1	604213
MB 570-604213/1-A	Method Blank	Total/NA	Water	625.1	604213

GC VOA

Analysis Batch: 606111

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-162643-1	Halawa Shaft Viewing Pool	Total/NA	Water	8015B GRO LL	
380-162643-2	TB: Halawa Shaft Viewing Pool	Total/NA	Water	8015B GRO LL	
MB 570-606111/10	Method Blank	Total/NA	Water	8015B GRO LL	
LCS 570-606111/1008	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-606111/9	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	
MRL 570-606111/11	Lab Control Sample	Total/NA	Water	8015B GRO LL	
380-162172-B-1 MS	Matrix Spike	Total/NA	Water	8015B GRO LL	
380-162172-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8015B GRO LL	

QC Association Summary

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

Job ID: 380-162643-1
SDG: Weekly: Halawa Shaft Viewing Pool

GC Semi VOA

Prep Batch: 603290

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-162643-1	Halawa Shaft Viewing Pool	Total/NA	Water	3510C	
MB 570-603290/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-603290/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-603290/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-603290/4-A	Lab Control Sample	Total/NA	Water	3510C	
380-162172-C-1-A MS	Matrix Spike	Total/NA	Water	3510C	
380-162172-C-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

Analysis Batch: 606862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-162643-1	Halawa Shaft Viewing Pool	Total/NA	Water	8015B	603290
MB 570-603290/1-A	Method Blank	Total/NA	Water	8015B	603290
LCS 570-603290/2-A	Lab Control Sample	Total/NA	Water	8015B	603290
LCSD 570-603290/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	603290
MRL 570-603290/4-A	Lab Control Sample	Total/NA	Water	8015B	603290
380-162172-C-1-A MS	Matrix Spike	Total/NA	Water	8015B	603290
380-162172-C-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	8015B	603290

Lab Chronicle

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

Job ID: 380-162643-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: Halawa Shaft Viewing Pool

Lab Sample ID: 380-162643-1

Date Collected: 07/22/25 09:25

Matrix: Water

Date Received: 07/24/25 10:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			165323	OTM3	EA POM	07/28/25 08:44
Total/NA	Analysis	525.2		1	165571	Q8LA	EA POM	07/29/25 14:57
Total/NA	Prep	625.1			604213	LM3A	EET CAL 4	07/29/25 18:46
Total/NA	Analysis	625.1		1	609756	CG	EET CAL 4	08/11/25 16:03
Total/NA	Prep	625.1			604213	LM3A	EET CAL 4	07/29/25 18:46
Total/NA	Analysis	625.1 SIM		1	608212	PQS1	EET CAL 4	08/07/25 09:03
Total/NA	Analysis	8015B GRO LL		1	606111	W4LC	EET CAL 4	08/02/25 17:23
Total/NA	Prep	3510C			603290	TVD6	EET CAL 4	07/28/25 09:17
Total/NA	Analysis	8015B		1	606862	NR	EET CAL 4	08/05/25 05:53

Client Sample ID: TB: Halawa Shaft Viewing Pool

Lab Sample ID: 380-162643-2

Date Collected: 07/22/25 09:25

Matrix: Water

Date Received: 07/24/25 10:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	606111	W4LC	EET CAL 4	08/03/25 01:29

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: 380-162643-1
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: 380-162643-1
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: 380-162643-1
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: 380-162643-1
SDG: Weekly: Halawa Shaft Viewing Pool

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
380-162643-1	Halawa Shaft Viewing Pool	Water	07/22/25 09:25	07/24/25 10:34	Hawaii
380-162643-2	TB: Halawa Shaft Viewing Pool	Water	07/22/25 09:25	07/24/25 10:34	Hawaii

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- 16

Chain of Custody Record

[illegible]

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-162643-1

SDG Number: Weekly: Halawa Shaft Viewing Pool

Login Number: 162643

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: 380-162643-1

SDG Number: Weekly: Halawa Shaft Viewing Pool

Login Number: 162643

List Source: Eurofins Calscience

List Number: 2

List Creation: 07/25/25 01:44 PM

Creator: Mills, Mary

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.	True	
Sample custody seals, if present, are intact.	True	
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	