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ANALYTICAL REPORT

PREPARED FOR

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City & County of Honolulu
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Honolulu, Hawaii 96843

Generated 12/16/2025 11:38:52 AM

JOB DESCRIPTION

RED-HILL
Weekly: Halawa Shaft Viewing Pool

JOB NUMBER

380-185946-1

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: 380-185946-1
SDG: Weekly: Halawa Shaft Viewing Pool

Qualifiers

GC/MS Semi VOA

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

GC/MS Semi VOA TICs

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

Glossary

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

Case Narrative

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

Job ID: 380-185946-1

Job ID: 380-185946-1

Eurofins Eaton Analytical Pomona

Job Narrative 380-185946-1

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 12/4/2025 10:25 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 2.0°C, 2.1°C, 2.6°C and 3.3°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 570-665681. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch. 625 Sim

Method 625.1_SIM: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 570-665681. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch. 625 Sim

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

Gasoline Range Organics

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

Diesel Range Organics

Method 8015B_DRO_LL_CS: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 570-666629. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

Method: 8015B_DRO_LL_CS

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: 380-185946-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: Halawa Shaft Viewing Pool

Lab Sample ID: 380-185946-1

No Detections.

Client Sample ID: TB: Halawa Shaft Viewing Pool

Lab Sample ID: 380-185946-2

No Detections.

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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: 380-185946-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: Halawa Shaft Viewing Pool

Lab Sample ID: 380-185946-1

Date Collected: 12/02/25 09:45

Matrix: Water

Date Received: 12/04/25 10:25

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.098		0.098	ug/L		12/05/25 14:59	12/07/25 15:03	1
2,4'-DDD	<0.098		0.098	ug/L		12/05/25 14:59	12/07/25 15:03	1
2,4'-DDE	<0.098		0.098	ug/L		12/05/25 14:59	12/07/25 15:03	1
2,4'-DDT	<0.098		0.098	ug/L		12/05/25 14:59	12/07/25 15:03	1
2,4-Dinitrotoluene	<0.098		0.098	ug/L		12/05/25 14:59	12/07/25 15:03	1
2,6-Dinitrotoluene	<0.098		0.098	ug/L		12/05/25 14:59	12/07/25 15:03	1
2-Methylnaphthalene	<0.098		0.098	ug/L		12/05/25 14:59	12/07/25 15:03	1
4,4'-DDD	<0.098		0.098	ug/L		12/05/25 14:59	12/07/25 15:03	1
4,4'-DDE	<0.098		0.098	ug/L		12/05/25 14:59	12/07/25 15:03	1
4,4'-DDT	<0.098		0.098	ug/L		12/05/25 14:59	12/07/25 15:03	1
Acenaphthene	<0.098		0.098	ug/L		12/05/25 14:59	12/07/25 15:03	1
Acenaphthylene	<0.098		0.098	ug/L		12/05/25 14:59	12/07/25 15:03	1
Acetochlor	<0.098		0.098	ug/L		12/05/25 14:59	12/07/25 15:03	1
Alachlor	<0.049		0.049	ug/L		12/05/25 14:59	12/07/25 15:03	1
alpha-BHC	<0.098		0.098	ug/L		12/05/25 14:59	12/07/25 15:03	1
alpha-Chlordane	<0.049		0.049	ug/L		12/05/25 14:59	12/07/25 15:03	1
Anthracene	<0.020		0.020	ug/L		12/05/25 14:59	12/07/25 15:03	1
Atrazine	<0.049		0.049	ug/L		12/05/25 14:59	12/07/25 15:03	1
Benz(a)anthracene	<0.049		0.049	ug/L		12/05/25 14:59	12/07/25 15:03	1
Benzo[a]pyrene	<0.020		0.020	ug/L		12/05/25 14:59	12/07/25 15:03	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		12/05/25 14:59	12/07/25 15:03	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		12/05/25 14:59	12/07/25 15:03	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		12/05/25 14:59	12/07/25 15:03	1
beta-BHC	<0.098		0.098	ug/L		12/05/25 14:59	12/07/25 15:03	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		12/05/25 14:59	12/07/25 15:03	1
Bromacil	<0.098		0.098	ug/L		12/05/25 14:59	12/07/25 15:03	1
Butachlor	<0.049		0.049	ug/L		12/05/25 14:59	12/07/25 15:03	1
Butylbenzylphthalate	<0.49		0.49	ug/L		12/05/25 14:59	12/07/25 15:03	1
Chlorobenzilate	<0.098		0.098	ug/L		12/05/25 14:59	12/07/25 15:03	1
Chloroneb	<0.098		0.098	ug/L		12/05/25 14:59	12/07/25 15:03	1
Chlorothalonil (Draconil, Bravo)	<0.098		0.098	ug/L		12/05/25 14:59	12/07/25 15:03	1
Chlorpyrifos	<0.049		0.049	ug/L		12/05/25 14:59	12/07/25 15:03	1
Chrysene	<0.020		0.020	ug/L		12/05/25 14:59	12/07/25 15:03	1
delta-BHC	<0.098		0.098	ug/L		12/05/25 14:59	12/07/25 15:03	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		12/05/25 14:59	12/07/25 15:03	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		12/05/25 14:59	12/07/25 15:03	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		12/05/25 14:59	12/07/25 15:03	1
Dieldrin	<0.0098		0.0098	ug/L		12/05/25 14:59	12/07/25 15:03	1
Diethylphthalate	<0.49		0.49	ug/L		12/05/25 14:59	12/07/25 15:03	1
Dimethylphthalate	<0.49		0.49	ug/L		12/05/25 14:59	12/07/25 15:03	1
Di-n-butyl phthalate	<0.98		0.98	ug/L		12/05/25 14:59	12/07/25 15:03	1
Di-n-octyl phthalate	<0.098		0.098	ug/L		12/05/25 14:59	12/07/25 15:03	1
Endosulfan I (Alpha)	<0.098		0.098	ug/L		12/05/25 14:59	12/07/25 15:03	1
Endosulfan II (Beta)	<0.098		0.098	ug/L		12/05/25 14:59	12/07/25 15:03	1
Endosulfan sulfate	<0.098		0.098	ug/L		12/05/25 14:59	12/07/25 15:03	1
Endrin	<0.0098		0.0098	ug/L		12/05/25 14:59	12/07/25 15:03	1
Endrin aldehyde	<0.098		0.098	ug/L		12/05/25 14:59	12/07/25 15:03	1
EPTC	<0.098		0.098	ug/L		12/05/25 14:59	12/07/25 15:03	1
Fluoranthene	<0.098		0.098	ug/L		12/05/25 14:59	12/07/25 15:03	1

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Client Sample Results

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

Job ID: 380-185946-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: Halawa Shaft Viewing Pool

Lab Sample ID: 380-185946-1

Date Collected: 12/02/25 09:45

Matrix: Water

Date Received: 12/04/25 10:25

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		12/05/25 14:59	12/07/25 15:03	1
gamma-Chlordane	<0.049		0.049	ug/L		12/05/25 14:59	12/07/25 15:03	1
Heptachlor	<0.0098		0.0098	ug/L		12/05/25 14:59	12/07/25 15:03	1
Heptachlor epoxide (isomer B)	<0.0098		0.0098	ug/L		12/05/25 14:59	12/07/25 15:03	1
Hexachlorobenzene	<0.049		0.049	ug/L		12/05/25 14:59	12/07/25 15:03	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		12/05/25 14:59	12/07/25 15:03	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		12/05/25 14:59	12/07/25 15:03	1
Isophorone	<0.098		0.098	ug/L		12/05/25 14:59	12/07/25 15:03	1
Lindane	<0.0098		0.0098	ug/L		12/05/25 14:59	12/07/25 15:03	1
Malathion	<0.098		0.098	ug/L		12/05/25 14:59	12/07/25 15:03	1
Methoxychlor	<0.049		0.049	ug/L		12/05/25 14:59	12/07/25 15:03	1
Metolachlor	<0.049		0.049	ug/L		12/05/25 14:59	12/07/25 15:03	1
Molinate	<0.098		0.098	ug/L		12/05/25 14:59	12/07/25 15:03	1
Naphthalene	<0.098		0.098	ug/L		12/05/25 14:59	12/07/25 15:03	1
Parathion	<0.098		0.098	ug/L		12/05/25 14:59	12/07/25 15:03	1
Pendimethalin (Penoxaline)	<0.098		0.098	ug/L		12/05/25 14:59	12/07/25 15:03	1
Phenanthrene	<0.039		0.039	ug/L		12/05/25 14:59	12/07/25 15:03	1
Propachlor	<0.049		0.049	ug/L		12/05/25 14:59	12/07/25 15:03	1
Pyrene	<0.049		0.049	ug/L		12/05/25 14:59	12/07/25 15:03	1
Simazine	<0.049		0.049	ug/L		12/05/25 14:59	12/07/25 15:03	1
Terbacil	<0.098		0.098	ug/L		12/05/25 14:59	12/07/25 15:03	1
Terbutylazine	<0.098		0.098	ug/L		12/05/25 14:59	12/07/25 15:03	1
Thiobencarb	<0.098		0.098	ug/L		12/05/25 14:59	12/07/25 15:03	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		12/05/25 14:59	12/07/25 15:03	1
trans-Nonachlor	<0.049		0.049	ug/L		12/05/25 14:59	12/07/25 15:03	1
Trifluralin	<0.098		0.098	ug/L		12/05/25 14:59	12/07/25 15:03	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	0.77	T J	ug/L		3.72	N/A	12/05/25 14:59	12/07/25 15:03	1
Unknown	0.60	T J	ug/L		3.88	N/A	12/05/25 14:59	12/07/25 15:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	97		70 - 130	12/05/25 14:59	12/07/25 15:03	1
Perylene-d12	92		70 - 130	12/05/25 14:59	12/07/25 15:03	1
Triphenylphosphate	103		70 - 130	12/05/25 14:59	12/07/25 15:03	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		12/08/25 13:12	12/12/25 09:33	1
2-Methylnaphthalene	<0.19		0.19	ug/L		12/08/25 13:12	12/12/25 09:33	1
Acenaphthene	<0.19		0.19	ug/L		12/08/25 13:12	12/12/25 09:33	1
Acenaphthylene	<0.19		0.19	ug/L		12/08/25 13:12	12/12/25 09:33	1
Anthracene	<0.19		0.19	ug/L		12/08/25 13:12	12/12/25 09:33	1
Benzo[a]anthracene	<0.19		0.19	ug/L		12/08/25 13:12	12/12/25 09:33	1
Benzo[a]pyrene	<0.19		0.19	ug/L		12/08/25 13:12	12/12/25 09:33	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		12/08/25 13:12	12/12/25 09:33	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		12/08/25 13:12	12/12/25 09:33	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		12/08/25 13:12	12/12/25 09:33	1
Chrysene	<0.19		0.19	ug/L		12/08/25 13:12	12/12/25 09:33	1
Dibenz(a,h)anthracene	<0.19		0.19	ug/L		12/08/25 13:12	12/12/25 09:33	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-185946-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: Halawa Shaft Viewing Pool

Lab Sample ID: 380-185946-1

Date Collected: 12/02/25 09:45

Matrix: Water

Date Received: 12/04/25 10:25

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.19		0.19	ug/L		12/08/25 13:12	12/12/25 09:33	1
Fluorene	<0.19		0.19	ug/L		12/08/25 13:12	12/12/25 09:33	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		12/08/25 13:12	12/12/25 09:33	1
Naphthalene	<0.19		0.19	ug/L		12/08/25 13:12	12/12/25 09:33	1
Phenanthrene	<0.19		0.19	ug/L		12/08/25 13:12	12/12/25 09:33	1
Pyrene	<0.19		0.19	ug/L		12/08/25 13:12	12/12/25 09:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	79		28 - 127	12/08/25 13:12	12/12/25 09:33	1
2-Fluorobiphenyl (Surr)	80		31 - 120	12/08/25 13:12	12/12/25 09:33	1
2-Fluorophenol (Surr)	52		17 - 120	12/08/25 13:12	12/12/25 09:33	1
Nitrobenzene-d5 (Surr)	81		27 - 120	12/08/25 13:12	12/12/25 09:33	1
Phenol-d6 (Surr)	32		10 - 120	12/08/25 13:12	12/12/25 09:33	1
p-Terphenyl-d14 (Surr)	70		45 - 120	12/08/25 13:12	12/12/25 09:33	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
3-Hexen-2-one	5.8	T J N	ug/L		1.82	763-93-9	12/08/25 13:12	12/12/25 21:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	71		33 - 139	12/08/25 13:12	12/12/25 21:16	1
2-Fluorobiphenyl (Surr)	85		33 - 126	12/08/25 13:12	12/12/25 21:16	1
2-Fluorophenol (Surr)	50		12 - 120	12/08/25 13:12	12/12/25 21:16	1
Nitrobenzene-d5 (Surr)	79		36 - 120	12/08/25 13:12	12/12/25 21:16	1
Phenol-d6 (Surr)	27		10 - 120	12/08/25 13:12	12/12/25 21:16	1
p-Terphenyl-d14 (Surr)	77		47 - 131	12/08/25 13:12	12/12/25 21:16	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			12/14/25 16:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		38 - 134		12/14/25 16:52	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		12/08/25 13:25	12/11/25 01:08	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		12/08/25 13:25	12/11/25 01:08	1
C8-C18	<25		25	ug/L		12/08/25 13:25	12/11/25 01:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	99		60 - 130	12/08/25 13:25	12/11/25 01:08	1

Client Sample ID: TB: Halawa Shaft Viewing Pool

Lab Sample ID: 380-185946-2

Date Collected: 12/02/25 09:45

Matrix: Water

Date Received: 12/04/25 10:25

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			12/14/25 21:31	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-185946-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: TB: Halawa Shaft Viewing Pool

Lab Sample ID: 380-185946-2

Date Collected: 12/02/25 09:45

Matrix: Water

Date Received: 12/04/25 10:25

<u>Surrogate</u>	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Dil Fac</u>
4-Bromofluorobenzene (Surr)	90		38 - 134		12/14/25 21:31	1

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

Action Limit Summary

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

Job ID: 380-185946-1
 SDG: Weekly: Halawa Shaft Viewing Pool

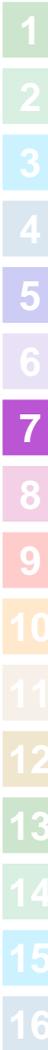
Client Sample ID: Halawa Shaft Viewing Pool

Lab Sample ID: 380-185946-1

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	<0.020		ug/L	0.2	0.020	525.2	Total/NA
Bis(2-ethylhexyl) phthalate	<0.59		ug/L	6	0.59	525.2	Total/NA
Di(2-ethylhexyl)adipate	<0.59		ug/L	400	0.59	525.2	Total/NA
Endrin	<0.0098		ug/L	2	0.0098	525.2	Total/NA
Heptachlor	<0.0098		ug/L	0.4	0.0098	525.2	Total/NA
Heptachlor epoxide (isomer B)	<0.0098		ug/L	0.2	0.0098	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	<0.0098		ug/L	0.2	0.0098	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: 380-185946-1
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)
380-185946-1	Halawa Shaft Viewing Pool	97	92	103
380-185946-1 MS	Halawa Shaft Viewing Pool	98	99	109
380-185952-B-1-A DU	Duplicate	97	94	103
LCS 380-190567/22-A	Lab Control Sample	97	98	108
LCSD 380-190567/23-A	Lab Control Sample Dup	97	96	105
MB 380-190567/20-A	Method Blank	98	93	99
MRL 380-190567/21-A	Lab Control Sample	97	94	102

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)
380-185946-1	Halawa Shaft Viewing Pool	71	85	50	79	27	77
MB 570-665681/1-A	Method Blank	78	91	61	85	32	80

Surrogate Legend
 TBP = 2,4,6-Tribromophenol (Surr)
 FBP = 2-Fluorobiphenyl (Surr)
 2FP = 2-Fluorophenol (Surr)
 NBZ = Nitrobenzene-d5 (Surr)
 PHL6 = Phenol-d6 (Surr)
 TPHd14 = p-Terphenyl-d14 (Surr)

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (28-127)	FBP (31-120)	2FP (17-120)	NBZ (27-120)	PHL6 (10-120)	TPHd14 (45-120)
380-185946-1	Halawa Shaft Viewing Pool	79	80	52	81	32	70
LCS 570-665681/2-A	Lab Control Sample	71	70	53	64	34	70
LCSD 570-665681/3-A	Lab Control Sample Dup	82	86	67	74	44	82
MB 570-665681/1-A	Method Blank	81	76	51	77	31	64

Surrogate Legend
 TBP = 2,4,6-Tribromophenol (Surr)
 FBP = 2-Fluorobiphenyl (Surr)
 2FP = 2-Fluorophenol (Surr)
 NBZ = Nitrobenzene-d5 (Surr)
 PHL6 = Phenol-d6 (Surr)
 TPHd14 = p-Terphenyl-d14 (Surr)

Surrogate Summary

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

Job ID: 380-185946-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (38-134)
380-185646-C-1 MS	Matrix Spike	89
380-185646-C-1 MSD	Matrix Spike Duplicate	92
380-185946-1	Halawa Shaft Viewing Pool	91
380-185946-2	TB: Halawa Shaft Viewing Pool	90
LCS 570-669820/4	Lab Control Sample	81
LCSD 570-669820/5	Lab Control Sample Dup	84
MB 570-669820/6	Method Blank	82
MRL 570-669820/3	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)
380-185946-1	Halawa Shaft Viewing Pool	99
LCS 570-666629/2-A	Lab Control Sample	97
LCSD 570-666629/3-A	Lab Control Sample Dup	98
MB 570-666629/1-A	Method Blank	84
MRL 570-666629/4-A	Lab Control Sample	99

Surrogate Legend

OTCSN = n-Octacosane (Surr)

QC Sample Results

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

Job ID: 380-185946-1
 SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MB 380-190567/20-A
Matrix: Water
Analysis Batch: 190691

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 190567

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1-Methylnaphthalene	<0.098		0.098	ug/L		12/05/25 14:59	12/07/25 13:22	1
2,4'-DDD	<0.098		0.098	ug/L		12/05/25 14:59	12/07/25 13:22	1
2,4'-DDE	<0.098		0.098	ug/L		12/05/25 14:59	12/07/25 13:22	1
2,4'-DDT	<0.098		0.098	ug/L		12/05/25 14:59	12/07/25 13:22	1
2,4-Dinitrotoluene	<0.098		0.098	ug/L		12/05/25 14:59	12/07/25 13:22	1
2,6-Dinitrotoluene	<0.098		0.098	ug/L		12/05/25 14:59	12/07/25 13:22	1
2-Methylnaphthalene	<0.098		0.098	ug/L		12/05/25 14:59	12/07/25 13:22	1
4,4'-DDD	<0.098		0.098	ug/L		12/05/25 14:59	12/07/25 13:22	1
4,4'-DDE	<0.098		0.098	ug/L		12/05/25 14:59	12/07/25 13:22	1
4,4'-DDT	<0.098		0.098	ug/L		12/05/25 14:59	12/07/25 13:22	1
Acenaphthene	<0.098		0.098	ug/L		12/05/25 14:59	12/07/25 13:22	1
Acenaphthylene	<0.098		0.098	ug/L		12/05/25 14:59	12/07/25 13:22	1
Acetochlor	<0.098		0.098	ug/L		12/05/25 14:59	12/07/25 13:22	1
Alachlor	<0.049		0.049	ug/L		12/05/25 14:59	12/07/25 13:22	1
alpha-BHC	<0.098		0.098	ug/L		12/05/25 14:59	12/07/25 13:22	1
alpha-Chlordane	<0.049		0.049	ug/L		12/05/25 14:59	12/07/25 13:22	1
Anthracene	<0.020		0.020	ug/L		12/05/25 14:59	12/07/25 13:22	1
Atrazine	<0.049		0.049	ug/L		12/05/25 14:59	12/07/25 13:22	1
Benz(a)anthracene	<0.049		0.049	ug/L		12/05/25 14:59	12/07/25 13:22	1
Benzo[a]pyrene	<0.020		0.020	ug/L		12/05/25 14:59	12/07/25 13:22	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		12/05/25 14:59	12/07/25 13:22	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		12/05/25 14:59	12/07/25 13:22	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		12/05/25 14:59	12/07/25 13:22	1
beta-BHC	<0.098		0.098	ug/L		12/05/25 14:59	12/07/25 13:22	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		12/05/25 14:59	12/07/25 13:22	1
Bromacil	<0.098		0.098	ug/L		12/05/25 14:59	12/07/25 13:22	1
Butachlor	<0.049		0.049	ug/L		12/05/25 14:59	12/07/25 13:22	1
Butylbenzylphthalate	<0.49		0.49	ug/L		12/05/25 14:59	12/07/25 13:22	1
Chlorobenzilate	<0.098		0.098	ug/L		12/05/25 14:59	12/07/25 13:22	1
Chloroneb	<0.098		0.098	ug/L		12/05/25 14:59	12/07/25 13:22	1
Chlorothalonil (Draconil, Bravo)	<0.098		0.098	ug/L		12/05/25 14:59	12/07/25 13:22	1
Chlorpyrifos	<0.049		0.049	ug/L		12/05/25 14:59	12/07/25 13:22	1
Chrysene	<0.020		0.020	ug/L		12/05/25 14:59	12/07/25 13:22	1
delta-BHC	<0.098		0.098	ug/L		12/05/25 14:59	12/07/25 13:22	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		12/05/25 14:59	12/07/25 13:22	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		12/05/25 14:59	12/07/25 13:22	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		12/05/25 14:59	12/07/25 13:22	1
Dieldrin	<0.0098		0.0098	ug/L		12/05/25 14:59	12/07/25 13:22	1
Diethylphthalate	<0.49		0.49	ug/L		12/05/25 14:59	12/07/25 13:22	1
Dimethylphthalate	<0.49		0.49	ug/L		12/05/25 14:59	12/07/25 13:22	1
Di-n-butyl phthalate	<0.98		0.98	ug/L		12/05/25 14:59	12/07/25 13:22	1
Di-n-octyl phthalate	<0.098		0.098	ug/L		12/05/25 14:59	12/07/25 13:22	1
Endosulfan I (Alpha)	<0.098		0.098	ug/L		12/05/25 14:59	12/07/25 13:22	1
Endosulfan II (Beta)	<0.098		0.098	ug/L		12/05/25 14:59	12/07/25 13:22	1
Endosulfan sulfate	<0.098		0.098	ug/L		12/05/25 14:59	12/07/25 13:22	1
Endrin	<0.0098		0.0098	ug/L		12/05/25 14:59	12/07/25 13:22	1
Endrin aldehyde	<0.098		0.098	ug/L		12/05/25 14:59	12/07/25 13:22	1
EPTC	<0.098		0.098	ug/L		12/05/25 14:59	12/07/25 13:22	1

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QC Sample Results

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

Job ID: 380-185946-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MB 380-190567/20-A
Matrix: Water
Analysis Batch: 190691

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 190567

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Fluoranthene	<0.098		0.098	ug/L		12/05/25 14:59	12/07/25 13:22	1
Fluorene	<0.049		0.049	ug/L		12/05/25 14:59	12/07/25 13:22	1
gamma-Chlordane	<0.049		0.049	ug/L		12/05/25 14:59	12/07/25 13:22	1
Heptachlor	<0.0098		0.0098	ug/L		12/05/25 14:59	12/07/25 13:22	1
Heptachlor epoxide (isomer B)	<0.0098		0.0098	ug/L		12/05/25 14:59	12/07/25 13:22	1
Hexachlorobenzene	<0.049		0.049	ug/L		12/05/25 14:59	12/07/25 13:22	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		12/05/25 14:59	12/07/25 13:22	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		12/05/25 14:59	12/07/25 13:22	1
Isophorone	<0.098		0.098	ug/L		12/05/25 14:59	12/07/25 13:22	1
Lindane	<0.0098		0.0098	ug/L		12/05/25 14:59	12/07/25 13:22	1
Malathion	<0.098		0.098	ug/L		12/05/25 14:59	12/07/25 13:22	1
Methoxychlor	<0.049		0.049	ug/L		12/05/25 14:59	12/07/25 13:22	1
Metolachlor	<0.049		0.049	ug/L		12/05/25 14:59	12/07/25 13:22	1
Molinate	<0.098		0.098	ug/L		12/05/25 14:59	12/07/25 13:22	1
Naphthalene	<0.098		0.098	ug/L		12/05/25 14:59	12/07/25 13:22	1
Parathion	<0.098		0.098	ug/L		12/05/25 14:59	12/07/25 13:22	1
Pendimethalin (Penoxaline)	<0.098		0.098	ug/L		12/05/25 14:59	12/07/25 13:22	1
Phenanthrene	<0.039		0.039	ug/L		12/05/25 14:59	12/07/25 13:22	1
Propachlor	<0.049		0.049	ug/L		12/05/25 14:59	12/07/25 13:22	1
Pyrene	<0.049		0.049	ug/L		12/05/25 14:59	12/07/25 13:22	1
Simazine	<0.049		0.049	ug/L		12/05/25 14:59	12/07/25 13:22	1
Terbacil	<0.098		0.098	ug/L		12/05/25 14:59	12/07/25 13:22	1
Terbutylazine	<0.098		0.098	ug/L		12/05/25 14:59	12/07/25 13:22	1
Thiobencarb	<0.098		0.098	ug/L		12/05/25 14:59	12/07/25 13:22	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		12/05/25 14:59	12/07/25 13:22	1
trans-Nonachlor	<0.049		0.049	ug/L		12/05/25 14:59	12/07/25 13:22	1
Trifluralin	<0.098		0.098	ug/L		12/05/25 14:59	12/07/25 13:22	1

Tentatively Identified Compound	MB	MB	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
	Est. Result	Qualifier							
Phenol, p-tert-butyl-	0.741	T J N	ug/L		3.81	98-54-4	12/05/25 14:59	12/07/25 13:22	1
9-Octadecenamamide, (Z)-	1.75	T J N	ug/L		7.78	301-02-0	12/05/25 14:59	12/07/25 13:22	1
Unknown	0.530	T J	ug/L		14.75	N/A	12/05/25 14:59	12/07/25 13:22	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Nitro-m-xylene	98		70 - 130	12/05/25 14:59	12/07/25 13:22	1
Perylene-d12	93		70 - 130	12/05/25 14:59	12/07/25 13:22	1
Triphenylphosphate	99		70 - 130	12/05/25 14:59	12/07/25 13:22	1

Lab Sample ID: LCS 380-190567/22-A
Matrix: Water
Analysis Batch: 190691

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 190567

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
1-Methylnaphthalene	1.97	1.82		ug/L		93	70 - 130
2,4'-DDD	1.97	2.04		ug/L		104	70 - 130
2,4'-DDE	1.97	2.03		ug/L		103	70 - 130
2,4'-DDT	1.97	2.11		ug/L		107	70 - 130
2,4-Dinitrotoluene	1.97	1.94		ug/L		99	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-185946-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCS 380-190567/22-A

Matrix: Water

Analysis Batch: 190691

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 190567

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec Limits
	Added	Result	Qualifier				
2,6-Dinitrotoluene	1.97	2.00		ug/L		101	70 - 130
2-Methylnaphthalene	1.97	1.84		ug/L		94	70 - 130
4,4'-DDD	1.97	2.08		ug/L		105	70 - 130
4,4'-DDE	1.97	2.09		ug/L		106	70 - 130
4,4'-DDT	1.97	1.93		ug/L		98	70 - 130
Acenaphthene	1.97	1.96		ug/L		99	70 - 130
Acenaphthylene	1.97	1.93		ug/L		98	70 - 130
Acetochlor	1.97	2.04		ug/L		104	70 - 130
Alachlor	1.97	2.06		ug/L		105	70 - 130
alpha-BHC	1.97	1.94		ug/L		98	70 - 130
alpha-Chlordane	1.97	2.16		ug/L		110	70 - 130
Anthracene	1.97	1.75		ug/L		89	70 - 130
Atrazine	1.97	2.00		ug/L		102	70 - 130
Benz(a)anthracene	1.97	1.85		ug/L		94	70 - 130
Benzo[a]pyrene	1.97	1.92		ug/L		97	70 - 130
Benzo[b]fluoranthene	1.97	1.96		ug/L		99	70 - 130
Benzo[g,h,i]perylene	1.97	2.01		ug/L		102	70 - 130
Benzo[k]fluoranthene	1.97	2.00		ug/L		102	70 - 130
beta-BHC	1.97	1.93		ug/L		98	70 - 130
Bis(2-ethylhexyl) phthalate	1.97	2.12		ug/L		108	70 - 130
Bromacil	1.97	1.89		ug/L		96	70 - 130
Butachlor	1.97	2.07		ug/L		105	70 - 130
Butylbenzylphthalate	1.97	2.22		ug/L		113	70 - 130
Chlorobenzilate	1.97	2.06		ug/L		105	70 - 130
Chloroneb	1.97	1.87		ug/L		95	70 - 130
Chlorothalonil (Draconil, Bravo)	1.97	2.17		ug/L		110	70 - 130
Chlorpyrifos	1.97	2.13		ug/L		108	70 - 130
Chrysene	1.97	1.91		ug/L		97	70 - 130
delta-BHC	1.97	1.90		ug/L		97	70 - 130
Di(2-ethylhexyl)adipate	1.97	2.27		ug/L		115	70 - 130
Dibenz(a,h)anthracene	1.97	1.97		ug/L		100	70 - 130
Diclorvos (DDVP)	1.97	1.96		ug/L		100	70 - 130
Dieldrin	1.97	1.97		ug/L		100	70 - 130
Diethylphthalate	1.97	2.12		ug/L		108	70 - 130
Dimethylphthalate	1.97	2.02		ug/L		103	70 - 130
Di-n-butyl phthalate	3.94	4.14		ug/L		105	70 - 130
Di-n-octyl phthalate	1.97	2.14		ug/L		109	70 - 130
Endosulfan I (Alpha)	1.97	1.84		ug/L		94	70 - 130
Endosulfan II (Beta)	1.97	1.86		ug/L		95	70 - 130
Endosulfan sulfate	1.97	2.14		ug/L		109	70 - 130
Endrin	1.97	2.09		ug/L		106	70 - 130
Endrin aldehyde	1.97	1.76		ug/L		89	60 - 130
EPTC	1.97	2.06		ug/L		105	70 - 130
Fluoranthene	1.97	2.11		ug/L		107	70 - 130
Fluorene	1.97	1.98		ug/L		100	70 - 130
gamma-Chlordane	1.97	2.18		ug/L		111	70 - 130
Heptachlor	1.97	2.09		ug/L		106	70 - 130
Heptachlor epoxide (isomer B)	1.97	1.99		ug/L		101	70 - 130
Hexachlorobenzene	1.97	2.07		ug/L		105	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-185946-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCS 380-190567/22-A

Matrix: Water

Analysis Batch: 190691

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 190567

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
Hexachlorocyclopentadiene	1.97	2.02		ug/L		103	70 - 130	
Indeno[1,2,3-cd]pyrene	1.97	1.98		ug/L		101	70 - 130	
Isophorone	1.97	2.10		ug/L		106	70 - 130	
Lindane	1.97	1.89		ug/L		96	70 - 130	
Malathion	1.97	1.89		ug/L		96	70 - 130	
Methoxychlor	1.97	2.01		ug/L		102	70 - 130	
Metolachlor	1.97	1.90		ug/L		97	70 - 130	
Molinate	1.97	2.08		ug/L		106	70 - 130	
Naphthalene	1.97	1.87		ug/L		95	70 - 130	
Parathion	1.97	2.24		ug/L		114	70 - 130	
Pendimethalin (Penoxaline)	1.97	2.03		ug/L		103	70 - 130	
Phenanthrene	1.97	1.94		ug/L		98	70 - 130	
Propachlor	1.97	2.08		ug/L		106	70 - 130	
Pyrene	1.97	2.06		ug/L		105	70 - 130	
Simazine	1.97	1.90		ug/L		96	70 - 130	
Terbacil	1.97	2.08		ug/L		106	70 - 130	
Terbutylazine	1.97	2.14		ug/L		109	70 - 130	
Thiobencarb	1.97	2.19		ug/L		111	70 - 130	
trans-Nonachlor	1.97	2.10		ug/L		107	70 - 130	
Trifluralin	1.97	1.98		ug/L		101	70 - 130	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	97		70 - 130
Perylene-d12	98		70 - 130
Triphenylphosphate	108		70 - 130

Lab Sample ID: LCSD 380-190567/23-A

Matrix: Water

Analysis Batch: 190691

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 190567

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	
							Limits		RPD	Limit
1-Methylnaphthalene	1.97	1.82		ug/L		92	70 - 130	0	20	
2,4'-DDD	1.97	2.02		ug/L		102	70 - 130	1	20	
2,4'-DDE	1.97	2.00		ug/L		101	70 - 130	2	20	
2,4'-DDT	1.97	2.07		ug/L		105	70 - 130	2	20	
2,4-Dinitrotoluene	1.97	1.87		ug/L		95	70 - 130	4	20	
2,6-Dinitrotoluene	1.97	1.93		ug/L		98	70 - 130	3	20	
2-Methylnaphthalene	1.97	1.84		ug/L		94	70 - 130	0	20	
4,4'-DDD	1.97	2.04		ug/L		103	70 - 130	2	20	
4,4'-DDE	1.97	2.06		ug/L		105	70 - 130	1	20	
4,4'-DDT	1.97	1.86		ug/L		94	70 - 130	4	20	
Acenaphthene	1.97	1.95		ug/L		99	70 - 130	0	20	
Acenaphthylene	1.97	1.89		ug/L		96	70 - 130	2	20	
Acetochlor	1.97	2.04		ug/L		103	70 - 130	0	20	
Alachlor	1.97	2.03		ug/L		103	70 - 130	2	20	
alpha-BHC	1.97	1.93		ug/L		98	70 - 130	0	20	
alpha-Chlordane	1.97	2.13		ug/L		108	70 - 130	1	20	
Anthracene	1.97	1.74		ug/L		89	70 - 130	0	20	

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-185946-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCSD 380-190567/23-A

Matrix: Water

Analysis Batch: 190691

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 190567

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	RPD
	Added	Result	Qualifier				Limits		Limit
Atrazine	1.97	2.00		ug/L		102	70 - 130	0	20
Benz(a)anthracene	1.97	1.80		ug/L		91	70 - 130	3	20
Benzo[a]pyrene	1.97	1.87		ug/L		95	70 - 130	2	20
Benzo[b]fluoranthene	1.97	1.96		ug/L		100	70 - 130	0	20
Benzo[g,h,i]perylene	1.97	2.02		ug/L		102	70 - 130	0	20
Benzo[k]fluoranthene	1.97	1.99		ug/L		101	70 - 130	1	20
beta-BHC	1.97	1.91		ug/L		97	70 - 130	1	20
Bis(2-ethylhexyl) phthalate	1.97	2.14		ug/L		108	70 - 130	0	20
Bromacil	1.97	1.89		ug/L		96	70 - 130	0	20
Butachlor	1.97	2.01		ug/L		102	70 - 130	3	20
Butylbenzylphthalate	1.97	2.18		ug/L		110	70 - 130	2	20
Chlorobenzilate	1.97	2.03		ug/L		103	70 - 130	2	20
Chloroneb	1.97	1.85		ug/L		94	70 - 130	1	20
Chlorothalonil (Draconil, Bravo)	1.97	2.12		ug/L		107	70 - 130	2	20
Chlorpyrifos	1.97	2.12		ug/L		108	70 - 130	0	20
Chrysene	1.97	1.90		ug/L		96	70 - 130	0	20
delta-BHC	1.97	1.85		ug/L		94	70 - 130	3	20
Di(2-ethylhexyl)adipate	1.97	2.25		ug/L		114	70 - 130	1	20
Dibenz(a,h)anthracene	1.97	1.84		ug/L		93	70 - 130	7	20
Diclorvos (DDVP)	1.97	1.95		ug/L		99	70 - 130	0	20
Dieldrin	1.97	1.94		ug/L		98	70 - 130	1	20
Diethylphthalate	1.97	2.13		ug/L		108	70 - 130	0	20
Dimethylphthalate	1.97	2.05		ug/L		104	70 - 130	1	20
Di-n-butyl phthalate	3.94	4.14		ug/L		105	70 - 130	0	20
Di-n-octyl phthalate	1.97	2.17		ug/L		110	70 - 130	1	20
Endosulfan I (Alpha)	1.97	1.84		ug/L		93	70 - 130	0	20
Endosulfan II (Beta)	1.97	1.85		ug/L		94	70 - 130	1	20
Endosulfan sulfate	1.97	2.08		ug/L		106	70 - 130	3	20
Endrin	1.97	2.06		ug/L		105	70 - 130	2	20
Endrin aldehyde	1.97	1.80		ug/L		91	60 - 130	2	20
EPTC	1.97	2.07		ug/L		105	70 - 130	0	20
Fluoranthene	1.97	2.08		ug/L		106	70 - 130	1	20
Fluorene	1.97	1.96		ug/L		100	70 - 130	1	20
gamma-Chlordane	1.97	2.16		ug/L		110	70 - 130	1	20
Heptachlor	1.97	2.03		ug/L		103	70 - 130	3	20
Heptachlor epoxide (isomer B)	1.97	1.95		ug/L		99	70 - 130	2	20
Hexachlorobenzene	1.97	2.08		ug/L		106	70 - 130	1	20
Hexachlorocyclopentadiene	1.97	1.99		ug/L		101	70 - 130	2	20
Indeno[1,2,3-cd]pyrene	1.97	1.97		ug/L		100	70 - 130	1	20
Isophorone	1.97	2.13		ug/L		108	70 - 130	2	20
Lindane	1.97	1.90		ug/L		96	70 - 130	1	20
Malathion	1.97	1.86		ug/L		94	70 - 130	2	20
Methoxychlor	1.97	1.98		ug/L		100	70 - 130	1	20
Metolachlor	1.97	1.88		ug/L		96	70 - 130	1	20
Molinate	1.97	2.08		ug/L		105	70 - 130	0	20
Naphthalene	1.97	1.86		ug/L		95	70 - 130	1	20
Parathion	1.97	2.19		ug/L		111	70 - 130	2	20
Pendimethalin (Penoxaline)	1.97	1.94		ug/L		99	70 - 130	5	20
Phenanthrene	1.97	1.93		ug/L		98	70 - 130	0	20

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-185946-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCSD 380-190567/23-A

Matrix: Water

Analysis Batch: 190691

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 190567

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Propachlor	1.97	2.10		ug/L		106	70 - 130	1	20	
Pyrene	1.97	2.04		ug/L		103	70 - 130	1	20	
Simazine	1.97	1.90		ug/L		96	70 - 130	0	20	
Terbacil	1.97	2.04		ug/L		103	70 - 130	2	20	
Terbutylazine	1.97	2.12		ug/L		108	70 - 130	1	20	
Thiobencarb	1.97	2.19		ug/L		111	70 - 130	0	20	
trans-Nonachlor	1.97	2.05		ug/L		104	70 - 130	3	20	
Trifluralin	1.97	1.95		ug/L		99	70 - 130	2	20	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	97		70 - 130
Perylene-d12	96		70 - 130
Triphenylphosphate	105		70 - 130

Lab Sample ID: MRL 380-190567/21-A

Matrix: Water

Analysis Batch: 190691

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 190567

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec	
							Limits	RPD
1-Methylnaphthalene	0.0984	0.111		ug/L		113	50 - 150	
2,4'-DDD	0.0984	0.0760	J	ug/L		77	50 - 150	
2,4'-DDE	0.0984	0.0930	J	ug/L		94	50 - 150	
2,4'-DDT	0.0984	0.0861	J	ug/L		87	50 - 150	
2,4-Dinitrotoluene	0.0984	0.108		ug/L		109	50 - 150	
2,6-Dinitrotoluene	0.0984	0.119		ug/L		121	50 - 150	
2-Methylnaphthalene	0.0984	0.104		ug/L		105	50 - 150	
4,4'-DDD	0.0984	0.0861	J	ug/L		88	50 - 150	
4,4'-DDE	0.0984	0.0919	J	ug/L		93	50 - 150	
4,4'-DDT	0.0984	0.105		ug/L		107	50 - 150	
Acenaphthene	0.0984	0.0884	J	ug/L		90	50 - 150	
Acenaphthylene	0.0984	0.0944	J	ug/L		96	50 - 150	
Acetochlor	0.0984	0.105		ug/L		107	50 - 150	
Alachlor	0.0492	0.0483	J	ug/L		98	50 - 150	
alpha-BHC	0.0984	0.0938	J	ug/L		95	50 - 150	
alpha-Chlordane	0.0246	<0.029		ug/L		90	50 - 150	
Anthracene	0.0197	0.0216		ug/L		110	50 - 150	
Atrazine	0.0492	<0.047		ug/L		88	50 - 150	
Benz(a)anthracene	0.0492	0.0502		ug/L		102	50 - 150	
Benzo[a]pyrene	0.0197	0.0223		ug/L		113	50 - 150	
Benzo[b]fluoranthene	0.0197	0.0197	J	ug/L		100	50 - 150	
Benzo[g,h,i]perylene	0.0492	0.0489	J	ug/L		99	50 - 150	
Benzo[k]fluoranthene	0.0197	0.0197	J	ug/L		100	50 - 150	
beta-BHC	0.0984	0.0967	J	ug/L		98	50 - 150	
Bis(2-ethylhexyl) phthalate	0.591	0.596		ug/L		101	50 - 150	
Bromacil	0.0984	0.111		ug/L		113	50 - 150	
Butachlor	0.0492	0.0577		ug/L		117	50 - 150	
Butylbenzylphthalate	0.492	0.546		ug/L		111	50 - 150	
Chlorobenzilate	0.0984	0.0972	J	ug/L		99	50 - 150	

QC Sample Results

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

Job ID: 380-185946-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MRL 380-190567/21-A

Matrix: Water

Analysis Batch: 190691

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 190567

Analyte	Spike	MRL	MRL	Unit	D	%Rec	%Rec Limits
	Added	Result	Qualifier				
Chloroneb	0.0984	0.105		ug/L		107	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0984	0.0905	J	ug/L		92	50 - 150
Chlorpyrifos	0.0492	0.0526		ug/L		107	50 - 150
Chrysene	0.0197	0.0209		ug/L		106	50 - 150
delta-BHC	0.0984	0.0848	J	ug/L		86	50 - 150
Di(2-ethylhexyl)adipate	0.591	0.666		ug/L		113	50 - 150
Dibenz(a,h)anthracene	0.0492	0.0484	J	ug/L		98	50 - 150
Diclorvos (DDVP)	0.0492	0.0525		ug/L		107	50 - 150
Dieldrin	0.00984	0.0126		ug/L		128	50 - 150
Diethylphthalate	0.492	0.527		ug/L		107	50 - 150
Dimethylphthalate	0.492	0.500		ug/L		102	50 - 150
Di-n-butyl phthalate	0.492	0.474	J	ug/L		96	49 - 243
Di-n-octyl phthalate	0.0984	0.0982		ug/L		100	50 - 150
Endosulfan I (Alpha)	0.0984	0.0865	J	ug/L		88	50 - 150
Endosulfan II (Beta)	0.0984	0.0961	J	ug/L		98	50 - 150
Endosulfan sulfate	0.0984	0.0915	J	ug/L		93	50 - 150
Endrin	0.00984	0.00830	J	ug/L		84	50 - 150
Endrin aldehyde	0.0984	0.110		ug/L		112	50 - 150
EPTC	0.0984	0.0961	J	ug/L		98	50 - 150
Fluoranthene	0.0984	0.0933	J	ug/L		95	50 - 150
Fluorene	0.0492	0.0528		ug/L		107	50 - 150
gamma-Chlordane	0.0246	0.0243	J	ug/L		99	50 - 150
Heptachlor	0.00984	0.00857	J	ug/L		87	50 - 150
Heptachlor epoxide (isomer B)	0.00984	0.00794	J	ug/L		81	50 - 150
Hexachlorobenzene	0.0492	0.0516		ug/L		105	50 - 150
Hexachlorocyclopentadiene	0.0492	0.0459	J	ug/L		93	50 - 150
Indeno[1,2,3-cd]pyrene	0.0492	0.0519		ug/L		105	50 - 150
Isophorone	0.0984	0.113		ug/L		115	50 - 150
Lindane	0.00984	0.00971	J	ug/L		99	50 - 150
Malathion	0.0984	0.0991		ug/L		101	50 - 150
Methoxychlor	0.0492	0.0513		ug/L		104	50 - 150
Metolachlor	0.0492	0.0561		ug/L		114	50 - 150
Molinate	0.0984	0.108		ug/L		109	50 - 150
Naphthalene	0.0984	0.0974	J	ug/L		99	50 - 150
Parathion	0.0984	0.0900	J	ug/L		91	50 - 150
Pendimethalin (Penoxaline)	0.0984	0.0966	J	ug/L		98	50 - 150
Phenanthrene	0.0394	0.0347	J	ug/L		88	50 - 150
Propachlor	0.0492	0.0533		ug/L		108	50 - 150
Pyrene	0.0492	0.0459	J	ug/L		93	50 - 150
Simazine	0.0492	0.0409	J	ug/L		83	50 - 150
Terbacil	0.0984	0.109		ug/L		110	50 - 150
Terbutylazine	0.0984	0.0924	J	ug/L		94	50 - 150
Thiobencarb	0.0984	0.101		ug/L		103	50 - 150
trans-Nonachlor	0.0246	<0.026		ug/L		87	50 - 150
Trifluralin	0.0984	0.109		ug/L		110	50 - 150

Surrogate	MRL		Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	97		70 - 130

QC Sample Results

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

Job ID: 380-185946-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MRL 380-190567/21-A
Matrix: Water
Analysis Batch: 190691

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 190567

Surrogate	MRL %Recovery	MRL Qualifier	Limits
Perylene-d12	94		70 - 130
Triphenylphosphate	102		70 - 130

Lab Sample ID: 380-185946-1 MS
Matrix: Water
Analysis Batch: 190691

Client Sample ID: Halawa Shaft Viewing Pool
Prep Type: Total/NA
Prep Batch: 190567

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.098		1.95	1.82		ug/L		93	70 - 130
2,4'-DDD	<0.098		1.95	2.04		ug/L		105	70 - 130
2,4'-DDE	<0.098		1.95	2.05		ug/L		105	70 - 130
2,4'-DDT	<0.098		1.95	2.09		ug/L		107	70 - 130
2,4-Dinitrotoluene	<0.098		1.95	2.09		ug/L		107	70 - 130
2,6-Dinitrotoluene	<0.098		1.95	2.08		ug/L		107	70 - 130
2-Methylnaphthalene	<0.098		1.95	1.83		ug/L		93	70 - 130
4,4'-DDD	<0.098		1.95	2.08		ug/L		107	70 - 130
4,4'-DDE	<0.098		1.95	2.08		ug/L		107	70 - 130
4,4'-DDT	<0.098		1.95	1.90		ug/L		98	70 - 130
Acenaphthene	<0.098		1.95	1.95		ug/L		100	70 - 130
Acenaphthylene	<0.098		1.95	1.99		ug/L		102	70 - 130
Acetochlor	<0.098		1.95	2.12		ug/L		109	70 - 130
Alachlor	<0.049		1.95	2.07		ug/L		106	70 - 130
alpha-BHC	<0.098		1.95	1.96		ug/L		101	70 - 130
alpha-Chlordane	<0.049		1.95	2.15		ug/L		110	70 - 130
Anthracene	<0.020		1.95	1.68		ug/L		86	70 - 130
Atrazine	<0.049		1.95	2.05		ug/L		105	70 - 130
Benz(a)anthracene	<0.049		1.95	1.82		ug/L		94	70 - 130
Benzo[a]pyrene	<0.020		1.95	1.94		ug/L		99	70 - 130
Benzo[b]fluoranthene	<0.020		1.95	1.99		ug/L		102	70 - 130
Benzo[g,h,i]perylene	<0.049		1.95	2.01		ug/L		103	70 - 130
Benzo[k]fluoranthene	<0.020		1.95	1.95		ug/L		100	70 - 130
beta-BHC	<0.098		1.95	1.95		ug/L		100	70 - 130
Bis(2-ethylhexyl) phthalate	<0.59		1.95	2.11		ug/L		108	70 - 130
Bromacil	<0.098		1.95	1.55		ug/L		79	70 - 130
Butachlor	<0.049		1.95	2.16		ug/L		111	70 - 130
Butylbenzylphthalate	<0.49		1.95	2.22		ug/L		114	70 - 130
Chlorobenzilate	<0.098		1.95	2.12		ug/L		109	70 - 130
Chloroneb	<0.098		1.95	1.85		ug/L		95	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.098		1.95	2.19		ug/L		112	70 - 130
Chlorpyrifos	<0.049		1.95	2.13		ug/L		109	70 - 130
Chrysene	<0.020		1.95	1.81		ug/L		93	70 - 130
delta-BHC	<0.098		1.95	1.91		ug/L		98	70 - 130
Di(2-ethylhexyl)adipate	<0.59		1.95	2.12		ug/L		109	70 - 130
Dibenz(a,h)anthracene	<0.049		1.95	1.97		ug/L		101	70 - 130
Diclorvos (DDVP)	<0.049		1.95	1.94		ug/L		99	70 - 130
Dieldrin	<0.0098		1.95	1.99		ug/L		102	70 - 130
Diethylphthalate	<0.49		1.95	2.15		ug/L		110	70 - 130
Dimethylphthalate	<0.49		1.95	2.04		ug/L		105	70 - 130

QC Sample Results

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

Job ID: 380-185946-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: 380-185952-B-1-A DU

Matrix: Water

Analysis Batch: 190691

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 190567

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
2,4'-DDT	<0.098		<0.098		ug/L		NC	20
2,4-Dinitrotoluene	<0.098		<0.098		ug/L		NC	20
2,6-Dinitrotoluene	<0.098		<0.098		ug/L		NC	20
2-Methylnaphthalene	<0.098		<0.098		ug/L		NC	20
4,4'-DDD	<0.098		<0.098		ug/L		NC	20
4,4'-DDE	<0.098		<0.098		ug/L		NC	20
4,4'-DDT	<0.098		<0.098		ug/L		NC	20
Acenaphthene	<0.098		<0.098		ug/L		NC	20
Acenaphthylene	<0.098		<0.098		ug/L		NC	20
Acetochlor	<0.098		<0.098		ug/L		NC	20
Alachlor	<0.049		<0.049		ug/L		NC	20
alpha-BHC	<0.098		<0.098		ug/L		NC	20
alpha-Chlordane	<0.049		<0.049		ug/L		NC	20
Anthracene	<0.020		<0.020		ug/L		NC	20
Atrazine	<0.049		<0.049		ug/L		NC	20
Benz(a)anthracene	<0.049		<0.049		ug/L		NC	20
Benzo[a]pyrene	<0.020		<0.020		ug/L		NC	20
Benzo[b]fluoranthene	<0.020		<0.020		ug/L		NC	20
Benzo[g,h,i]perylene	<0.049		<0.049		ug/L		NC	20
Benzo[k]fluoranthene	<0.020		<0.020		ug/L		NC	20
beta-BHC	<0.098		<0.098		ug/L		NC	20
Bis(2-ethylhexyl) phthalate	<0.59		<0.59		ug/L		NC	20
Bromacil	<0.098		<0.098		ug/L		NC	20
Butachlor	<0.049		<0.049		ug/L		NC	20
Butylbenzylphthalate	<0.49		<0.49		ug/L		NC	20
Chlorobenzilate	<0.098		<0.098		ug/L		NC	20
Chloroneb	<0.098		<0.098		ug/L		NC	20
Chlorothalonil (Draconil, Bravo)	<0.098		<0.098		ug/L		NC	20
Chlorpyrifos	<0.049		<0.049		ug/L		NC	20
Chrysene	<0.020		<0.020		ug/L		NC	20
delta-BHC	<0.098		<0.098		ug/L		NC	20
Di(2-ethylhexyl)adipate	<0.59		<0.59		ug/L		NC	20
Dibenz(a,h)anthracene	<0.049		<0.049		ug/L		NC	20
Diclorvos (DDVP)	<0.049		<0.049		ug/L		NC	20
Dieldrin	0.011		0.0114		ug/L		8	20
Diethylphthalate	<0.49		<0.49		ug/L		NC	20
Dimethylphthalate	<0.49		<0.49		ug/L		NC	20
Di-n-butyl phthalate	<0.98		<0.98		ug/L		NC	20
Di-n-octyl phthalate	<0.098		<0.098		ug/L		NC	20
Endosulfan I (Alpha)	<0.098		<0.098		ug/L		NC	20
Endosulfan II (Beta)	<0.098		<0.098		ug/L		NC	20
Endosulfan sulfate	<0.098		<0.098		ug/L		NC	20
Endrin	<0.0098		<0.0098		ug/L		NC	20
Endrin aldehyde	<0.098		<0.098		ug/L		NC	20
EPTC	<0.098		<0.098		ug/L		NC	20
Fluoranthene	<0.098		<0.098		ug/L		NC	20
Fluorene	<0.049		<0.049		ug/L		NC	20
gamma-Chlordane	<0.049		<0.049		ug/L		NC	20
Heptachlor	<0.0098		<0.0098		ug/L		NC	20

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-185946-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: 380-185952-B-1-A DU

Matrix: Water

Analysis Batch: 190691

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 190567

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Heptachlor epoxide (isomer B)	<0.0098		<0.0098		ug/L		NC	20
Hexachlorobenzene	<0.049		<0.049		ug/L		NC	20
Hexachlorocyclopentadiene	<0.049		<0.049		ug/L		NC	20
Indeno[1,2,3-cd]pyrene	<0.049		<0.049		ug/L		NC	20
Isophorone	<0.098		<0.098		ug/L		NC	20
Lindane	<0.0098		<0.0098		ug/L		NC	20
Malathion	<0.098		<0.098		ug/L		NC	20
Methoxychlor	<0.049		<0.049		ug/L		NC	20
Metolachlor	<0.049		<0.049		ug/L		NC	20
Molinate	<0.098		<0.098		ug/L		NC	20
Naphthalene	<0.098		<0.098		ug/L		NC	20
Parathion	<0.098		<0.098		ug/L		NC	20
Pendimethalin (Penoxaline)	<0.098		<0.098		ug/L		NC	20
Phenanthrene	<0.039		<0.039		ug/L		NC	20
Propachlor	<0.049		<0.049		ug/L		NC	20
Pyrene	<0.049		<0.049		ug/L		NC	20
Simazine	<0.049		<0.049		ug/L		NC	20
Terbacil	<0.098		<0.098		ug/L		NC	20
Terbutylazine	<0.098		<0.098		ug/L		NC	20
Thiobencarb	<0.098		<0.098		ug/L		NC	20
Total Permethrin (mixed isomers)	<0.20		<0.20		ug/L		NC	20
trans-Nonachlor	<0.049		<0.049		ug/L		NC	20
Trifluralin	<0.098		<0.098		ug/L		NC	20

Surrogate	DU	DU	Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	97		70 - 130
Perylene-d12	94		70 - 130
Triphenylphosphate	103		70 - 130

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

Lab Sample ID: MB 570-665681/1-A

Matrix: Water

Analysis Batch: 669048

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 665681

Tentatively Identified Compound	MB	MB	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
	Est. Result	Qualifier							
Tentatively Identified Compound	None		ug/L			N/A	12/08/25 13:12	12/12/25 20:52	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4,6-Tribromophenol (Surr)	78		33 - 139	12/08/25 13:12	12/12/25 20:52	1
2-Fluorobiphenyl (Surr)	91		33 - 126	12/08/25 13:12	12/12/25 20:52	1
2-Fluorophenol (Surr)	61		12 - 120	12/08/25 13:12	12/12/25 20:52	1
Nitrobenzene-d5 (Surr)	85		36 - 120	12/08/25 13:12	12/12/25 20:52	1
Phenol-d6 (Surr)	32		10 - 120	12/08/25 13:12	12/12/25 20:52	1
p-Terphenyl-d14 (Surr)	80		47 - 131	12/08/25 13:12	12/12/25 20:52	1

QC Sample Results

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

Job ID: 380-185946-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MB 570-665681/1-A
Matrix: Water
Analysis Batch: 668900

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 665681

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1-Methylnaphthalene	<0.20		0.20	ug/L		12/08/25 13:12	12/12/25 06:39	1
2-Methylnaphthalene	<0.20		0.20	ug/L		12/08/25 13:12	12/12/25 06:39	1
Acenaphthene	<0.20		0.20	ug/L		12/08/25 13:12	12/12/25 06:39	1
Acenaphthylene	<0.20		0.20	ug/L		12/08/25 13:12	12/12/25 06:39	1
Anthracene	<0.20		0.20	ug/L		12/08/25 13:12	12/12/25 06:39	1
Benzo[a]anthracene	<0.20		0.20	ug/L		12/08/25 13:12	12/12/25 06:39	1
Benzo[a]pyrene	<0.20		0.20	ug/L		12/08/25 13:12	12/12/25 06:39	1
Benzo[b]fluoranthene	<0.20		0.20	ug/L		12/08/25 13:12	12/12/25 06:39	1
Benzo[g,h,i]perylene	<0.20		0.20	ug/L		12/08/25 13:12	12/12/25 06:39	1
Benzo[k]fluoranthene	<0.20		0.20	ug/L		12/08/25 13:12	12/12/25 06:39	1
Chrysene	<0.20		0.20	ug/L		12/08/25 13:12	12/12/25 06:39	1
Dibenz(a,h)anthracene	<0.20		0.20	ug/L		12/08/25 13:12	12/12/25 06:39	1
Fluoranthene	<0.20		0.20	ug/L		12/08/25 13:12	12/12/25 06:39	1
Fluorene	<0.20		0.20	ug/L		12/08/25 13:12	12/12/25 06:39	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20	ug/L		12/08/25 13:12	12/12/25 06:39	1
Naphthalene	<0.20		0.20	ug/L		12/08/25 13:12	12/12/25 06:39	1
Phenanthrene	<0.20		0.20	ug/L		12/08/25 13:12	12/12/25 06:39	1
Pyrene	<0.20		0.20	ug/L		12/08/25 13:12	12/12/25 06:39	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4,6-Tribromophenol (Surr)	81		28 - 127	12/08/25 13:12	12/12/25 06:39	1
2-Fluorobiphenyl (Surr)	76		31 - 120	12/08/25 13:12	12/12/25 06:39	1
2-Fluorophenol (Surr)	51		17 - 120	12/08/25 13:12	12/12/25 06:39	1
Nitrobenzene-d5 (Surr)	77		27 - 120	12/08/25 13:12	12/12/25 06:39	1
Phenol-d6 (Surr)	31		10 - 120	12/08/25 13:12	12/12/25 06:39	1
p-Terphenyl-d14 (Surr)	64		45 - 120	12/08/25 13:12	12/12/25 06:39	1

Lab Sample ID: LCS 570-665681/2-A
Matrix: Water
Analysis Batch: 668900

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 665681

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
1-Methylnaphthalene	20.0	12.3		ug/L		61	47 - 120
2-Methylnaphthalene	20.0	12.2		ug/L		61	43 - 120
Acenaphthene	20.0	14.6		ug/L		73	60 - 132
Acenaphthylene	20.0	13.8		ug/L		69	54 - 126
Anthracene	20.0	14.8		ug/L		74	43 - 120
Benzo[a]anthracene	20.0	14.8		ug/L		74	42 - 133
Benzo[a]pyrene	20.0	16.2		ug/L		81	32 - 148
Benzo[b]fluoranthene	20.0	15.8		ug/L		79	42 - 140
Benzo[g,h,i]perylene	20.0	15.5		ug/L		78	1 - 195
Benzo[k]fluoranthene	20.0	15.9		ug/L		80	25 - 146
Chrysene	20.0	15.2		ug/L		76	44 - 140
Dibenz(a,h)anthracene	20.0	16.6		ug/L		83	1 - 200
Fluoranthene	20.0	15.8		ug/L		79	43 - 121
Fluorene	20.0	14.8		ug/L		74	70 - 120
Indeno[1,2,3-cd]pyrene	20.0	15.9		ug/L		80	1 - 151
Naphthalene	20.0	11.9		ug/L		59	36 - 120

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-185946-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCS 570-665681/2-A

Matrix: Water

Analysis Batch: 668900

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 665681

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Phenanthrene	20.0	14.8		ug/L		74	65 - 120
Pyrene	20.0	15.1		ug/L		75	70 - 120

Surrogate	LCS		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	71		28 - 127
2-Fluorobiphenyl (Surr)	70		31 - 120
2-Fluorophenol (Surr)	53		17 - 120
Nitrobenzene-d5 (Surr)	64		27 - 120
Phenol-d6 (Surr)	34		10 - 120
p-Terphenyl-d14 (Surr)	70		45 - 120

Lab Sample ID: LCSD 570-665681/3-A

Matrix: Water

Analysis Batch: 668900

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 665681

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
		Result	Qualifier						
1-Methylnaphthalene	20.0	14.4		ug/L		72	47 - 120	16	20
2-Methylnaphthalene	20.0	14.3		ug/L		72	43 - 120	16	20
Acenaphthene	20.0	17.9		ug/L		90	60 - 132	20	29
Acenaphthylene	20.0	16.8		ug/L		84	54 - 126	19	45
Anthracene	20.0	17.5		ug/L		88	43 - 120	17	40
Benzo[a]anthracene	20.0	17.6		ug/L		88	42 - 133	17	32
Benzo[a]pyrene	20.0	19.1		ug/L		96	32 - 148	16	43
Benzo[b]fluoranthene	20.0	18.9		ug/L		94	42 - 140	18	43
Benzo[g,h,i]perylene	20.0	18.2		ug/L		91	1 - 195	16	61
Benzo[k]fluoranthene	20.0	18.5		ug/L		92	25 - 146	15	38
Chrysene	20.0	17.5		ug/L		87	44 - 140	14	53
Dibenz(a,h)anthracene	20.0	19.2		ug/L		96	1 - 200	15	75
Fluoranthene	20.0	18.4		ug/L		92	43 - 121	15	40
Fluorene	20.0	17.9		ug/L		89	70 - 120	19	23
Indeno[1,2,3-cd]pyrene	20.0	18.9		ug/L		94	1 - 151	17	60
Naphthalene	20.0	14.2		ug/L		71	36 - 120	18	39
Phenanthrene	20.0	17.8		ug/L		89	65 - 120	18	24
Pyrene	20.0	18.5		ug/L		92	70 - 120	20	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	82		28 - 127
2-Fluorobiphenyl (Surr)	86		31 - 120
2-Fluorophenol (Surr)	67		17 - 120
Nitrobenzene-d5 (Surr)	74		27 - 120
Phenol-d6 (Surr)	44		10 - 120
p-Terphenyl-d14 (Surr)	82		45 - 120

QC Sample Results

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

Job ID: 380-185946-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MB 570-669820/6
Matrix: Water
Analysis Batch: 669820

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			12/14/25 12:53	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		38 - 134				12/14/25 12:53	1

Lab Sample ID: LCS 570-669820/4
Matrix: Water
Analysis Batch: 669820

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	352		ug/L		88	78 - 120
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	81		38 - 134				

Lab Sample ID: LCSD 570-669820/5
Matrix: Water
Analysis Batch: 669820

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	365		ug/L		91	78 - 120	4	10
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	84		38 - 134						

Lab Sample ID: MRL 570-669820/3
Matrix: Water
Analysis Batch: 669820

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (C4-C13)	10.0	12.3		ug/L		123	50 - 150
Surrogate	MRL %Recovery	MRL Qualifier	Limits				
4-Bromofluorobenzene (Surr)	79		38 - 134				

Lab Sample ID: 380-185646-C-1 MS
Matrix: Water
Analysis Batch: 669820

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (C4-C13)	<10		400	392		ug/L		98	68 - 122
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	89		38 - 134						

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-185946-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: 380-185646-C-1 MSD
Matrix: Water
Analysis Batch: 669820

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (C4-C13)	<10		400	386		ug/L		96	68 - 122	2	18
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	92		38 - 134								

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

Lab Sample ID: MB 570-666629/1-A
Matrix: Water
Analysis Batch: 668161

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 666629

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<25		25	ug/L		12/08/25 13:25	12/10/25 23:41	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		12/08/25 13:25	12/10/25 23:41	1
C8-C18	<25		25	ug/L		12/08/25 13:25	12/10/25 23:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	84		60 - 130			12/08/25 13:25	12/10/25 23:41	1

Lab Sample ID: LCS 570-666629/2-A
Matrix: Water
Analysis Batch: 668161

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 666629

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
C10-C28	1600	1520		ug/L		95	56 - 127
Surrogate	%Recovery	Qualifier	Limits				
n-Octacosane (Surr)	97		60 - 130				

Lab Sample ID: LCSD 570-666629/3-A
Matrix: Water
Analysis Batch: 668161

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 666629

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28	1600	1580		ug/L		99	56 - 127	4	23
Surrogate	%Recovery	Qualifier	Limits						
n-Octacosane (Surr)	98		60 - 130						

Lab Sample ID: MRL 570-666629/4-A
Matrix: Water
Analysis Batch: 668161

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 666629

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
C10-C28	0.0200	<0.020		mg/L		87	50 - 150

QC Sample Results

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

Job ID: 380-185946-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MRL 570-666629/4-A
Matrix: Water
Analysis Batch: 668161

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 666629

<i>Surrogate</i>	<i>MRL</i>	<i>MRL</i>	<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
<i>n-Octacosane (Surr)</i>	99		60 - 130

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QC Association Summary

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

Job ID: 380-185946-1
 SDG: Weekly: Halawa Shaft Viewing Pool

GC/MS Semi VOA

Prep Batch: 190567

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-185946-1	Halawa Shaft Viewing Pool	Total/NA	Water	525.2	
MB 380-190567/20-A	Method Blank	Total/NA	Water	525.2	
LCS 380-190567/22-A	Lab Control Sample	Total/NA	Water	525.2	
LCSD 380-190567/23-A	Lab Control Sample Dup	Total/NA	Water	525.2	
MRL 380-190567/21-A	Lab Control Sample	Total/NA	Water	525.2	
380-185946-1 MS	Halawa Shaft Viewing Pool	Total/NA	Water	525.2	
380-185952-B-1-A DU	Duplicate	Total/NA	Water	525.2	

Analysis Batch: 190691

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-185946-1	Halawa Shaft Viewing Pool	Total/NA	Water	525.2	190567
MB 380-190567/20-A	Method Blank	Total/NA	Water	525.2	190567
LCS 380-190567/22-A	Lab Control Sample	Total/NA	Water	525.2	190567
LCSD 380-190567/23-A	Lab Control Sample Dup	Total/NA	Water	525.2	190567
MRL 380-190567/21-A	Lab Control Sample	Total/NA	Water	525.2	190567
380-185946-1 MS	Halawa Shaft Viewing Pool	Total/NA	Water	525.2	190567
380-185952-B-1-A DU	Duplicate	Total/NA	Water	525.2	190567

Prep Batch: 665681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-185946-1	Halawa Shaft Viewing Pool	Total/NA	Water	625.1	
MB 570-665681/1-A	Method Blank	Total/NA	Water	625.1	
LCS 570-665681/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 570-665681/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	

Analysis Batch: 668900

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-185946-1	Halawa Shaft Viewing Pool	Total/NA	Water	625.1 SIM	665681
MB 570-665681/1-A	Method Blank	Total/NA	Water	625.1 SIM	665681
LCS 570-665681/2-A	Lab Control Sample	Total/NA	Water	625.1 SIM	665681
LCSD 570-665681/3-A	Lab Control Sample Dup	Total/NA	Water	625.1 SIM	665681

Analysis Batch: 669048

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-185946-1	Halawa Shaft Viewing Pool	Total/NA	Water	625.1	665681
MB 570-665681/1-A	Method Blank	Total/NA	Water	625.1	665681

GC VOA

Analysis Batch: 669820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-185946-1	Halawa Shaft Viewing Pool	Total/NA	Water	8015B GRO LL	
380-185946-2	TB: Halawa Shaft Viewing Pool	Total/NA	Water	8015B GRO LL	
MB 570-669820/6	Method Blank	Total/NA	Water	8015B GRO LL	
LCS 570-669820/4	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-669820/5	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	
MRL 570-669820/3	Lab Control Sample	Total/NA	Water	8015B GRO LL	
380-185646-C-1 MS	Matrix Spike	Total/NA	Water	8015B GRO LL	
380-185646-C-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: 380-185946-1
 SDG: Weekly: Halawa Shaft Viewing Pool

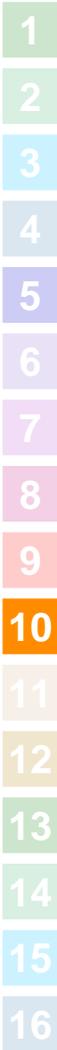
GC Semi VOA

Prep Batch: 666629

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-185946-1	Halawa Shaft Viewing Pool	Total/NA	Water	3510C	
MB 570-666629/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-666629/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-666629/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-666629/4-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 668161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-185946-1	Halawa Shaft Viewing Pool	Total/NA	Water	8015B	666629
MB 570-666629/1-A	Method Blank	Total/NA	Water	8015B	666629
LCS 570-666629/2-A	Lab Control Sample	Total/NA	Water	8015B	666629
LCSD 570-666629/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	666629
MRL 570-666629/4-A	Lab Control Sample	Total/NA	Water	8015B	666629



Lab Chronicle

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

Job ID: 380-185946-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: Halawa Shaft Viewing Pool

Lab Sample ID: 380-185946-1

Date Collected: 12/02/25 09:45

Matrix: Water

Date Received: 12/04/25 10:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			190567	IQ42	EA POM	12/05/25 14:59
Total/NA	Analysis	525.2		1	190691	Q8LA	EA POM	12/07/25 15:03
Total/NA	Prep	625.1			665681	OAJ3	EET CAL 4	12/08/25 13:12
Total/NA	Analysis	625.1		1	669048	PQS1	EET CAL 4	12/12/25 21:16
Total/NA	Prep	625.1			665681	OAJ3	EET CAL 4	12/08/25 13:12
Total/NA	Analysis	625.1 SIM		1	668900	PQS1	EET CAL 4	12/12/25 09:33
Total/NA	Analysis	8015B GRO LL		1	669820	YD9V	EET CAL 4	12/14/25 16:52
Total/NA	Prep	3510C			666629	EP2G	EET CAL 4	12/08/25 13:25
Total/NA	Analysis	8015B		1	668161	H6FE	EET CAL 4	12/11/25 01:08

Client Sample ID: TB: Halawa Shaft Viewing Pool

Lab Sample ID: 380-185946-2

Date Collected: 12/02/25 09:45

Matrix: Water

Date Received: 12/04/25 10:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	669820	YD9V	EET CAL 4	12/14/25 21:31

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: 380-185946-1
 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	11-17-26
California	Los Angeles County Sanitation Districts	9257304	07-31-26
California	State	3082	07-31-26

Eurofins Eaton Analytical Pomona

Accreditation/Certification Summary

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

Job ID: 380-185946-1
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
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	10-11-26

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Method Summary

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

Job ID: 380-185946-1
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: 380-185946-1
SDG: Weekly: Halawa Shaft Viewing Pool

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
380-185946-1	Halawa Shaft Viewing Pool	Water	12/02/25 09:45	12/04/25 10:25	Hawaii
380-185946-2	TB: Halawa Shaft Viewing Pool	Water	12/02/25 09:45	12/04/25 10:25	Hawaii

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ORIGIN ID HIKA (808) 748-5840
BWS CHEMLAB
HONOLULU BOARD OF WATER SUPPLY
630 S. BERETANIA ST.
CHEMICAL LABORATORY
HONOLULU HI 96843
UNITED STATES US

SHIP DATE: 03DEC25
ACTWGT 54.00 LB
CAD 258050552/NET4535

BILL RECIPIENT

TO **EUROFINS RECEIVING DEPARTMENT**
EUROFINS DRINKING WATER TESTING
941 CORPORATE CENTER DR

POMONA CA 91768

INV# (626) 386-1100 REF:

PC:

DEPT:



THU - 04 DEC 12:00P
PRIORITY OVERNIGHT

3 of 4

MPS# 8867 0293 8340

Mstr# 8867 0293 8328

WM ONTA

91768

CA-US ONT



(751A) 26+0.0 2-6 961- frozen
Mentel MacArthur
12/4/25 1025

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ORIGIN ID: HIKA (808) 748-5840
 BWS CHEMLAB
 HONOLULU BOARD OF WATER SUPPLY
 630 S BERETANIA ST
 CHEMICAL LABORATORY
 HONOLULU HI 96843
 UNITED STATES US

TO **EUROFINS RECEIVING DEPARTMENT**
EUROFINS DRINKING WATER TESTING
941 CORPORATE CENTER DR

POMONA CA 91768

(626) 366-1100 REF.
 INV. PO. DEPT.

SHIP DATE: 03DEC25
 ACTWGT: 54.00 LB
 CAD: 258050552/INET4535
 BILL RECIPIENT



THU - 04 DEC 12:00P
 PRIORITY OVERNIGHT

1 of 4
 TRK# 8867 0293 8328
 # MASTER #

WM ONTA 91768
 CA-US ONT



(FSIA) 2.0 + 0.0 = 2.0 gels frozen
 Markuraton
 12/4/25 1025

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ORIGIN ID-HIKA (808) 748-5840
BWS CHEMLAB
HONOLULU BOARD OF WATER SUPPLY
630 S. BERETANIA ST.
CHEMICAL LABORATORY
HONOLULU HI 96843
UNITED STATES US

SHIP DATE: 03DEC25
ACTWGT 54.00 LB
CAD: 258050552INET4535

BILL RECIPIENT

TO **EUROFINS RECEIVING DEPARTMENT**
EUROFINS DRINKING WATER TESTING
941 CORPORATE CENTER DR

68H44/C22/59F2

POMONA CA 91768

REF: (626) 386-1100

PC:

DEPT:



J25425029240 Tuv

THU - 04 DEC 12:00P
PRIORITY OVERNIGHT

2 of 4

MPS# 8867 0293 8339

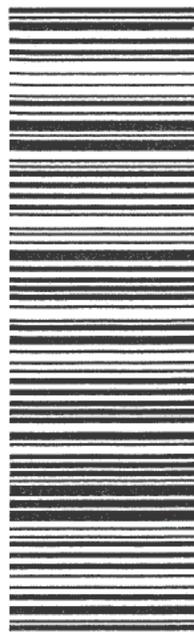
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Mstr# 8867 0293 8328

91768

WM ONTA

CA-US ONT



(75117) 21+0-0 21 gdf frozen
Mawab Markkaramitra
12/4/25 1025

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Eurofins Eaton Analytical Pomona

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

Chain of Custody Record



eurofins En

Loc: 380
185946

Client Information (Sub Contract Lab)		Sampler: N/A		Lab PM: Lopez, Maria		Carrier Tracking No(s): N/A		COC No: 380-282550.1					
Client Contact: Shipping/Receiving		Phone: N/A		E-Mail: Maria.Lopez@et.eurofinsus.com		State of Origin: Hawaii		Page: Page 1 of 1					
Company: Eurofins Environment Testing Southwest				Accreditations Required (See note): State - Hawaii				Job #: 380-185946-1					
Address: 2841 Dow Avenue, Suite 100		Due Date Requested: 12/17/2025		Analysis Requested Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 801BB_DRO_LL_CS0510C_LLPHL Ranges: C10-C24/C24-C36/C36-C78 801BB_GRO_LL/5030C(MOD) GRO 625_1_SIMI625_Prep(MOD) Extended PAH List				Total Number of Containers		Preservation Codes:			
City: Tustin		TAT Requested (days): N/A								Other: N/A			
State, Zip: CA, 92780		PO #: N/A								Special Instructions/Note:			
Phone: 714-895-5494(Tel)		W/O #: N/A											
Email: N/A		Project #: 38001111											
Project Name: RED-HILL		SSOW#: N/A											
Site: Honolulu BWS Sites													
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=oils/solids, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	801BB_DRO_LL_CS0510C_LLPHL Ranges: C10-C24/C24-C36/C36-C78	801BB_GRO_LL/5030C(MOD) GRO	625_1_SIMI625_Prep(MOD) Extended PAH List	Total Number of Containers	Special Instructions/Note:	
				Preservation Code:									
Halawa Shaft Viewing Pool (380-185946-1)		9/4/05	Hawaiian	G	Water		X	X	X		7	MRLs are needed. Confirm any hits >RL	
TB: Halawa Shaft Viewing Pool (380-185946-2)		9/4/05	Hawaiian	G	Water			X			2	MRLs are needed.	

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-185946-1

SDG Number: Weekly: Halawa Shaft Viewing Pool

Login Number: 185946

List Number: 1

Creator: Tran, Kristine

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: 380-185946-1
SDG Number: Weekly: Halawa Shaft Viewing Pool

Login Number: 185946

List Number: 2

Creator: Khana, Piyush

List Source: Eurofins Calscience

List Creation: 12/04/25 07:28 PM

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ 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	1.2
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 <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	False	