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ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Erwin Kawata
City & County of Honolulu
630 South Beretania Street
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Honolulu, Hawaii 96843

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JOB DESCRIPTION

RED-HILL
Weekly: Halawa Shaft Viewing Pool

JOB NUMBER

380-203947-1

Eurofins Pomona

Job Notes

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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 Drinking Water and Wastewater West, 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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Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	6
Detection Summary	7
Client Sample Results	8
Action Limit Summary	12
Surrogate Summary	13
QC Sample Results	16
QC Association Summary	30
Lab Chronicle	32
Certification Summary	33
Method Summary	35
Sample Summary	36
Chain of Custody	37
Receipt Checklists	39

Definitions/Glossary

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

Job ID: 380-203947-1
SDG: Weekly: Halawa Shaft Viewing Pool

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
^3+	Reporting Limit Check Standard is outside acceptance limits, high biased
B	Analyte was found in the associated method blank.
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)

Definitions/Glossary

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

Job ID: 380-203947-1
SDG: Weekly: Halawa Shaft Viewing Pool

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TNTC	Too Numerous To Count

- 1
- 2
- 3
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- 16

Case Narrative

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

Job ID: 380-203947-1

Job ID: 380-203947-1

Eurofins Pomona

Job Narrative 380-203947-1

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 3/19/2026 10:13 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.5°C.

GC/MS Semi VOA

Method 625.1: The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch. Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 570-712950.

625_Prep/625.1_SIM

Method 625.1 SIM: The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch. Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 570-712950.

625_Prep/625.1_SIM

Method 625.1 SIM: The method blank for preparation batch 570-712950 contained Indeno[1,2,3-cd]pyrene above the reporting limit (RL). None of the samples associated with this method blank contained the target compound; therefore, re-extraction and/or re-analysis of samples were not performed.

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: 380-203947-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: Halawa Shaft Viewing Pool

Lab Sample ID: 380-203947-1

No Detections.

Client Sample ID: TB: Halawa Shaft Viewing Pool

Lab Sample ID: 380-203947-2

No Detections.

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This Detection Summary does not include radiochemical test results.

Client Sample Results

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

Job ID: 380-203947-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: Halawa Shaft Viewing Pool

Lab Sample ID: 380-203947-1

Date Collected: 03/17/26 09:30

Matrix: Drinking Water

Date Received: 03/19/26 10:13

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		03/23/26 14:57	03/24/26 18:52	1
2,4'-DDD	<0.098		0.098	ug/L		03/23/26 14:57	03/24/26 18:52	1
2,4'-DDE	<0.098		0.098	ug/L		03/23/26 14:57	03/24/26 18:52	1
2,4'-DDT	<0.098		0.098	ug/L		03/23/26 14:57	03/24/26 18:52	1
2,4-Dinitrotoluene	<0.098	^3+ ^^	0.098	ug/L		03/23/26 14:57	03/24/26 18:52	1
2,6-Dinitrotoluene	<0.098	^3+	0.098	ug/L		03/23/26 14:57	03/24/26 18:52	1
2-Methylnaphthalene	<0.098		0.098	ug/L		03/23/26 14:57	03/24/26 18:52	1
4,4'-DDD	<0.098		0.098	ug/L		03/23/26 14:57	03/24/26 18:52	1
4,4'-DDE	<0.098		0.098	ug/L		03/23/26 14:57	03/24/26 18:52	1
4,4'-DDT	<0.098		0.098	ug/L		03/23/26 14:57	03/24/26 18:52	1
Acenaphthene	<0.098		0.098	ug/L		03/23/26 14:57	03/24/26 18:52	1
Acenaphthylene	<0.098		0.098	ug/L		03/23/26 14:57	03/24/26 18:52	1
Acetochlor	<0.098		0.098	ug/L		03/23/26 14:57	03/24/26 18:52	1
Alachlor	<0.049		0.049	ug/L		03/23/26 14:57	03/24/26 18:52	1
alpha-BHC	<0.098		0.098	ug/L		03/23/26 14:57	03/24/26 18:52	1
alpha-Chlordane	<0.049		0.049	ug/L		03/23/26 14:57	03/24/26 18:52	1
Anthracene	<0.020		0.020	ug/L		03/23/26 14:57	03/24/26 18:52	1
Atrazine	<0.049		0.049	ug/L		03/23/26 14:57	03/24/26 18:52	1
Benz(a)anthracene	<0.049		0.049	ug/L		03/23/26 14:57	03/24/26 18:52	1
Benzo[a]pyrene	<0.020		0.020	ug/L		03/23/26 14:57	03/24/26 18:52	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		03/23/26 14:57	03/24/26 18:52	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		03/23/26 14:57	03/24/26 18:52	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		03/23/26 14:57	03/24/26 18:52	1
beta-BHC	<0.098		0.098	ug/L		03/23/26 14:57	03/24/26 18:52	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		03/23/26 14:57	03/24/26 18:52	1
Bromacil	<0.098		0.098	ug/L		03/23/26 14:57	03/24/26 18:52	1
Butachlor	<0.049		0.049	ug/L		03/23/26 14:57	03/24/26 18:52	1
Butylbenzylphthalate	<0.49		0.49	ug/L		03/23/26 14:57	03/24/26 18:52	1
Chlorobenzilate	<0.098		0.098	ug/L		03/23/26 14:57	03/24/26 18:52	1
Chloroneb	<0.098		0.098	ug/L		03/23/26 14:57	03/24/26 18:52	1
Chlorothalonil (Draconil, Bravo)	<0.098		0.098	ug/L		03/23/26 14:57	03/24/26 18:52	1
Chlorpyrifos	<0.049		0.049	ug/L		03/23/26 14:57	03/24/26 18:52	1
Chrysene	<0.020		0.020	ug/L		03/23/26 14:57	03/24/26 18:52	1
delta-BHC	<0.098		0.098	ug/L		03/23/26 14:57	03/24/26 18:52	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		03/23/26 14:57	03/24/26 18:52	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		03/23/26 14:57	03/24/26 18:52	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		03/23/26 14:57	03/24/26 18:52	1
Dieldrin	<0.0098		0.0098	ug/L		03/23/26 14:57	03/24/26 18:52	1
Diethylphthalate	<0.49		0.49	ug/L		03/23/26 14:57	03/24/26 18:52	1
Dimethylphthalate	<0.49		0.49	ug/L		03/23/26 14:57	03/24/26 18:52	1
Di-n-butyl phthalate	<0.98		0.98	ug/L		03/23/26 14:57	03/24/26 18:52	1
Di-n-octyl phthalate	<0.098		0.098	ug/L		03/23/26 14:57	03/24/26 18:52	1
Endosulfan I (Alpha)	<0.098		0.098	ug/L		03/23/26 14:57	03/24/26 18:52	1
Endosulfan II (Beta)	<0.098		0.098	ug/L		03/23/26 14:57	03/24/26 18:52	1
Endosulfan sulfate	<0.098		0.098	ug/L		03/23/26 14:57	03/24/26 18:52	1
Endrin	<0.0098		0.0098	ug/L		03/23/26 14:57	03/24/26 18:52	1
Endrin aldehyde	<0.098		0.098	ug/L		03/23/26 14:57	03/24/26 18:52	1
EPTC	<0.098		0.098	ug/L		03/23/26 14:57	03/24/26 18:52	1
Fluoranthene	<0.098		0.098	ug/L		03/23/26 14:57	03/24/26 18:52	1

Client Sample Results

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

Job ID: 380-203947-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: Halawa Shaft Viewing Pool

Lab Sample ID: 380-203947-1

Date Collected: 03/17/26 09:30

Matrix: Drinking Water

Date Received: 03/19/26 10:13

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		03/23/26 14:57	03/24/26 18:52	1
gamma-Chlordane	<0.049		0.049	ug/L		03/23/26 14:57	03/24/26 18:52	1
Heptachlor	<0.0098	^+	0.0098	ug/L		03/23/26 14:57	03/24/26 18:52	1
Heptachlor epoxide (isomer B)	<0.0098		0.0098	ug/L		03/23/26 14:57	03/24/26 18:52	1
Hexachlorobenzene	<0.049		0.049	ug/L		03/23/26 14:57	03/24/26 18:52	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		03/23/26 14:57	03/24/26 18:52	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		03/23/26 14:57	03/24/26 18:52	1
Isophorone	<0.098		0.098	ug/L		03/23/26 14:57	03/24/26 18:52	1
Lindane	<0.0098		0.0098	ug/L		03/23/26 14:57	03/24/26 18:52	1
Malathion	<0.098		0.098	ug/L		03/23/26 14:57	03/24/26 18:52	1
Methoxychlor	<0.049		0.049	ug/L		03/23/26 14:57	03/24/26 18:52	1
Metolachlor	<0.049		0.049	ug/L		03/23/26 14:57	03/24/26 18:52	1
Molinate	<0.098		0.098	ug/L		03/23/26 14:57	03/24/26 18:52	1
Naphthalene	<0.098		0.098	ug/L		03/23/26 14:57	03/24/26 18:52	1
Parathion	<0.098		0.098	ug/L		03/23/26 14:57	03/24/26 18:52	1
Pendimethalin (Penoxaline)	<0.098		0.098	ug/L		03/23/26 14:57	03/24/26 18:52	1
Phenanthrene	<0.039		0.039	ug/L		03/23/26 14:57	03/24/26 18:52	1
Propachlor	<0.049		0.049	ug/L		03/23/26 14:57	03/24/26 18:52	1
Pyrene	<0.049		0.049	ug/L		03/23/26 14:57	03/24/26 18:52	1
Simazine	<0.049		0.049	ug/L		03/23/26 14:57	03/24/26 18:52	1
Terbacil	<0.098		0.098	ug/L		03/23/26 14:57	03/24/26 18:52	1
Terbutylazine	<0.098		0.098	ug/L		03/23/26 14:57	03/24/26 18:52	1
Thiobencarb	<0.098		0.098	ug/L		03/23/26 14:57	03/24/26 18:52	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		03/23/26 14:57	03/24/26 18:52	1
trans-Nonachlor	<0.049		0.049	ug/L		03/23/26 14:57	03/24/26 18:52	1
Trifluralin	<0.098		0.098	ug/L		03/23/26 14:57	03/24/26 18:52	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	03/23/26 14:57	03/24/26 18:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	100		70 - 130	03/23/26 14:57	03/24/26 18:52	1
Perylene-d12	87		70 - 130	03/23/26 14:57	03/24/26 18:52	1
Triphenylphosphate	104		70 - 130	03/23/26 14:57	03/24/26 18:52	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		03/22/26 15:29	03/25/26 08:58	1
2-Methylnaphthalene	<0.19		0.19	ug/L		03/22/26 15:29	03/25/26 08:58	1
Acenaphthene	<0.19		0.19	ug/L		03/22/26 15:29	03/25/26 08:58	1
Acenaphthylene	<0.19		0.19	ug/L		03/22/26 15:29	03/25/26 08:58	1
Anthracene	<0.19		0.19	ug/L		03/22/26 15:29	03/25/26 08:58	1
Benzo[a]anthracene	<0.19		0.19	ug/L		03/22/26 15:29	03/25/26 08:58	1
Benzo[a]pyrene	<0.19		0.19	ug/L		03/22/26 15:29	03/25/26 08:58	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		03/22/26 15:29	03/25/26 08:58	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		03/22/26 15:29	03/25/26 08:58	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		03/22/26 15:29	03/25/26 08:58	1
Chrysene	<0.19		0.19	ug/L		03/22/26 15:29	03/25/26 08:58	1
Dibenz(a,h)anthracene	<0.19		0.19	ug/L		03/22/26 15:29	03/25/26 08:58	1
Fluoranthene	<0.19		0.19	ug/L		03/22/26 15:29	03/25/26 08:58	1

Eurofins Pomona

Client Sample Results

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

Job ID: 380-203947-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: Halawa Shaft Viewing Pool

Lab Sample ID: 380-203947-1

Date Collected: 03/17/26 09:30

Matrix: Drinking Water

Date Received: 03/19/26 10:13

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		03/22/26 15:29	03/25/26 08:58	1
Indeno[1,2,3-cd]pyrene	<0.19	B	0.19	ug/L		03/22/26 15:29	03/25/26 08:58	1
Naphthalene	<0.19		0.19	ug/L		03/22/26 15:29	03/25/26 08:58	1
Phenanthrene	<0.19		0.19	ug/L		03/22/26 15:29	03/25/26 08:58	1
Pyrene	<0.19		0.19	ug/L		03/22/26 15:29	03/25/26 08:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	109		28 - 127	03/22/26 15:29	03/25/26 08:58	1
2-Fluorobiphenyl (Surr)	91		31 - 120	03/22/26 15:29	03/25/26 08:58	1
2-Fluorophenol (Surr)	50		17 - 120	03/22/26 15:29	03/25/26 08:58	1
Nitrobenzene-d5 (Surr)	107		27 - 120	03/22/26 15:29	03/25/26 08:58	1
Phenol-d6 (Surr)	31		10 - 120	03/22/26 15:29	03/25/26 08:58	1
p-Terphenyl-d14 (Surr)	86		45 - 120	03/22/26 15:29	03/25/26 08:58	1

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

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	03/22/26 15:29	04/03/26 17:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	102		33 - 139	03/22/26 15:29	04/03/26 17:04	1
2-Fluorobiphenyl (Surr)	98		33 - 126	03/22/26 15:29	04/03/26 17:04	1
2-Fluorophenol (Surr)	61		12 - 120	03/22/26 15:29	04/03/26 17:04	1
Nitrobenzene-d5 (Surr)	101		36 - 120	03/22/26 15:29	04/03/26 17:04	1
Phenol-d6 (Surr)	36		10 - 120	03/22/26 15:29	04/03/26 17:04	1
p-Terphenyl-d14 (Surr)	100		47 - 131	03/22/26 15:29	04/03/26 17:04	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			03/27/26 20:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		38 - 134		03/27/26 20:38	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)	<26		26	ug/L		03/20/26 11:45	03/29/26 20:38	1
Motor Oil Range Organics [C24-C36]	<26		26	ug/L		03/20/26 11:45	03/29/26 20:38	1
C8-C18	<26		26	ug/L		03/20/26 11:45	03/29/26 20:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	126		60 - 130	03/20/26 11:45	03/29/26 20:38	1

Client Sample ID: TB: Halawa Shaft Viewing Pool

Lab Sample ID: 380-203947-2

Date Collected: 03/17/26 09:30

Matrix: Water

Date Received: 03/19/26 10:13

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			03/27/26 15:48	1

Client Sample Results

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

Job ID: 380-203947-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: TB: Halawa Shaft Viewing Pool

Lab Sample ID: 380-203947-2

Date Collected: 03/17/26 09:30

Matrix: Water

Date Received: 03/19/26 10:13

<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)	108		38 - 134		03/27/26 15:48	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: 380-203947-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: Halawa Shaft Viewing Pool

Lab Sample ID: 380-203947-1

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: 380-203947-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Matrix: Drinking 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)
380-203947-1	Halawa Shaft Viewing Pool	100	87	104

Surrogate Legend

2NMX = 2-Nitro-m-xylene
PRY = Perylene-d12
TPP = Triphenylphosphate

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)
380-202851-AA-1-A DU	Duplicate	99	86	105
380-202896-BE-1-A MS	Matrix Spike	99	93	106
LCS 380-215228/23-A	Lab Control Sample	99	91	106
MB 380-215228/21-A	Method Blank	99	84	106
MRL 380-215228/22-A	Lab Control Sample	99	84	100

Surrogate Legend

2NMX = 2-Nitro-m-xylene
PRY = Perylene-d12
TPP = Triphenylphosphate

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

Matrix: Drinking 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)
380-203947-1	Halawa Shaft Viewing Pool	102	98	61	101	36	100

Surrogate Legend

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

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)
MB 570-712950/1-A	Method Blank	87	93	60	96	39	95

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)

Surrogate Summary

Client: City & County of Honolulu

Job ID: 380-203947-1

Project/Site: RED-HILL

SDG: Weekly: Halawa Shaft Viewing Pool

PHL6 = Phenol-d6 (Surr)

TPHd14 = p-Terphenyl-d14 (Surr)

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

Matrix: Drinking 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)
380-203947-1	Halawa Shaft Viewing Pool	109	91	50	107	31	86

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)
LCS 570-712950/2-A	Lab Control Sample	99	86	69	87	41	94
LCSD 570-712950/3-A	Lab Control Sample Dup	103	87	67	88	41	97
MB 570-712950/1-A	Method Blank	100	80	55	98	32	81

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

Matrix: Drinking Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		BFB1 (38-134)
380-203947-1	Halawa Shaft Viewing Pool	87

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		BFB1 (38-134)
380-203715-B-1 MS	Matrix Spike	87
380-203715-B-1 MSD	Matrix Spike Duplicate	88
380-203947-2	TB: Halawa Shaft Viewing Pool	108
LCS 570-715724/3	Lab Control Sample	88
LCSD 570-715724/4	Lab Control Sample Dup	87

Surrogate Summary

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

Job ID: 380-203947-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (38-134)
MB 570-715724/6	Method Blank	91
MRL 570-715724/5	Lab Control Sample	88

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

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

Matrix: Drinking Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	OTCSN1 (60-130)
380-203947-1	Halawa Shaft Viewing Pool	126

Surrogate Legend

OTCSN = n-Octacosane (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)
380-203715-C-1-A MS	Matrix Spike	106
380-203715-C-1-B MSD	Matrix Spike Duplicate	119
LCS 570-712308/2-A	Lab Control Sample	122
LCSD 570-712308/3-A	Lab Control Sample Dup	125
MB 570-712308/1-A	Method Blank	115
MRL 570-712308/4-A	Lab Control Sample	110

Surrogate Legend

OTCSN = n-Octacosane (Surr)

QC Sample Results

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

Job ID: 380-203947-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MB 380-215228/21-A
Matrix: Water
Analysis Batch: 215431

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 215228

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1-Methylnaphthalene	<0.098		0.098	ug/L		03/23/26 14:57	03/24/26 13:46	1
2,4'-DDD	<0.098		0.098	ug/L		03/23/26 14:57	03/24/26 13:46	1
2,4'-DDE	<0.098		0.098	ug/L		03/23/26 14:57	03/24/26 13:46	1
2,4'-DDT	<0.098		0.098	ug/L		03/23/26 14:57	03/24/26 13:46	1
2,4-Dinitrotoluene	<0.098	^3+	0.098	ug/L		03/23/26 14:57	03/24/26 13:46	1
2,6-Dinitrotoluene	<0.098	^3+	0.098	ug/L		03/23/26 14:57	03/24/26 13:46	1
2-Methylnaphthalene	<0.098		0.098	ug/L		03/23/26 14:57	03/24/26 13:46	1
4,4'-DDD	<0.098		0.098	ug/L		03/23/26 14:57	03/24/26 13:46	1
4,4'-DDE	<0.098		0.098	ug/L		03/23/26 14:57	03/24/26 13:46	1
4,4'-DDT	<0.098		0.098	ug/L		03/23/26 14:57	03/24/26 13:46	1
Acenaphthene	<0.098		0.098	ug/L		03/23/26 14:57	03/24/26 13:46	1
Acenaphthylene	<0.098		0.098	ug/L		03/23/26 14:57	03/24/26 13:46	1
Acetochlor	<0.098		0.098	ug/L		03/23/26 14:57	03/24/26 13:46	1
Alachlor	<0.049		0.049	ug/L		03/23/26 14:57	03/24/26 13:46	1
alpha-BHC	<0.098		0.098	ug/L		03/23/26 14:57	03/24/26 13:46	1
alpha-Chlordane	<0.049		0.049	ug/L		03/23/26 14:57	03/24/26 13:46	1
Anthracene	<0.020		0.020	ug/L		03/23/26 14:57	03/24/26 13:46	1
Atrazine	<0.049		0.049	ug/L		03/23/26 14:57	03/24/26 13:46	1
Benz(a)anthracene	<0.049		0.049	ug/L		03/23/26 14:57	03/24/26 13:46	1
Benzo[a]pyrene	<0.020		0.020	ug/L		03/23/26 14:57	03/24/26 13:46	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		03/23/26 14:57	03/24/26 13:46	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		03/23/26 14:57	03/24/26 13:46	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		03/23/26 14:57	03/24/26 13:46	1
beta-BHC	<0.098		0.098	ug/L		03/23/26 14:57	03/24/26 13:46	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		03/23/26 14:57	03/24/26 13:46	1
Bromacil	<0.098		0.098	ug/L		03/23/26 14:57	03/24/26 13:46	1
Butachlor	<0.049		0.049	ug/L		03/23/26 14:57	03/24/26 13:46	1
Butylbenzylphthalate	<0.49		0.49	ug/L		03/23/26 14:57	03/24/26 13:46	1
Chlorobenzilate	<0.098		0.098	ug/L		03/23/26 14:57	03/24/26 13:46	1
Chloroneb	<0.098		0.098	ug/L		03/23/26 14:57	03/24/26 13:46	1
Chlorothalonil (Draconil, Bravo)	<0.098		0.098	ug/L		03/23/26 14:57	03/24/26 13:46	1
Chlorpyrifos	<0.049		0.049	ug/L		03/23/26 14:57	03/24/26 13:46	1
Chrysene	<0.020		0.020	ug/L		03/23/26 14:57	03/24/26 13:46	1
delta-BHC	<0.098		0.098	ug/L		03/23/26 14:57	03/24/26 13:46	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		03/23/26 14:57	03/24/26 13:46	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		03/23/26 14:57	03/24/26 13:46	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		03/23/26 14:57	03/24/26 13:46	1
Dieldrin	<0.0098		0.0098	ug/L		03/23/26 14:57	03/24/26 13:46	1
Diethylphthalate	<0.49		0.49	ug/L		03/23/26 14:57	03/24/26 13:46	1
Dimethylphthalate	<0.49		0.49	ug/L		03/23/26 14:57	03/24/26 13:46	1
Di-n-butyl phthalate	<0.98		0.98	ug/L		03/23/26 14:57	03/24/26 13:46	1
Di-n-octyl phthalate	<0.098		0.098	ug/L		03/23/26 14:57	03/24/26 13:46	1
Endosulfan I (Alpha)	<0.098		0.098	ug/L		03/23/26 14:57	03/24/26 13:46	1
Endosulfan II (Beta)	<0.098		0.098	ug/L		03/23/26 14:57	03/24/26 13:46	1
Endosulfan sulfate	<0.098		0.098	ug/L		03/23/26 14:57	03/24/26 13:46	1
Endrin	<0.0098		0.0098	ug/L		03/23/26 14:57	03/24/26 13:46	1
Endrin aldehyde	<0.098		0.098	ug/L		03/23/26 14:57	03/24/26 13:46	1
EPTC	<0.098		0.098	ug/L		03/23/26 14:57	03/24/26 13:46	1

QC Sample Results

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

Job ID: 380-203947-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MB 380-215228/21-A
Matrix: Water
Analysis Batch: 215431

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 215228

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Fluoranthene	<0.098		0.098	ug/L		03/23/26 14:57	03/24/26 13:46	1
Fluorene	<0.049		0.049	ug/L		03/23/26 14:57	03/24/26 13:46	1
gamma-Chlordane	<0.049		0.049	ug/L		03/23/26 14:57	03/24/26 13:46	1
Heptachlor	<0.0098		0.0098	ug/L		03/23/26 14:57	03/24/26 13:46	1
Heptachlor epoxide (isomer B)	<0.0098		0.0098	ug/L		03/23/26 14:57	03/24/26 13:46	1
Hexachlorobenzene	<0.049		0.049	ug/L		03/23/26 14:57	03/24/26 13:46	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		03/23/26 14:57	03/24/26 13:46	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		03/23/26 14:57	03/24/26 13:46	1
Isophorone	<0.098		0.098	ug/L		03/23/26 14:57	03/24/26 13:46	1
Lindane	<0.0098		0.0098	ug/L		03/23/26 14:57	03/24/26 13:46	1
Malathion	<0.098		0.098	ug/L		03/23/26 14:57	03/24/26 13:46	1
Methoxychlor	<0.049		0.049	ug/L		03/23/26 14:57	03/24/26 13:46	1
Metolachlor	<0.049		0.049	ug/L		03/23/26 14:57	03/24/26 13:46	1
Molinate	<0.098		0.098	ug/L		03/23/26 14:57	03/24/26 13:46	1
Naphthalene	<0.098		0.098	ug/L		03/23/26 14:57	03/24/26 13:46	1
Parathion	<0.098		0.098	ug/L		03/23/26 14:57	03/24/26 13:46	1
Pendimethalin (Penoxaline)	<0.098		0.098	ug/L		03/23/26 14:57	03/24/26 13:46	1
Phenanthrene	<0.039		0.039	ug/L		03/23/26 14:57	03/24/26 13:46	1
Propachlor	<0.049		0.049	ug/L		03/23/26 14:57	03/24/26 13:46	1
Pyrene	<0.049		0.049	ug/L		03/23/26 14:57	03/24/26 13:46	1
Simazine	<0.049		0.049	ug/L		03/23/26 14:57	03/24/26 13:46	1
Terbacil	<0.098		0.098	ug/L		03/23/26 14:57	03/24/26 13:46	1
Terbutylazine	<0.098		0.098	ug/L		03/23/26 14:57	03/24/26 13:46	1
Thiobencarb	<0.098		0.098	ug/L		03/23/26 14:57	03/24/26 13:46	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		03/23/26 14:57	03/24/26 13:46	1
trans-Nonachlor	<0.049		0.049	ug/L		03/23/26 14:57	03/24/26 13:46	1
Trifluralin	<0.098		0.098	ug/L		03/23/26 14:57	03/24/26 13:46	1

Tentatively Identified Compound	MB	MB	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
	Est. Result	Qualifier							
Cyclopentene, 1,2,3,4,5-pentamethyl-	0.929	T J N	ug/L		2.55	1000154-28-6	03/23/26 14:57	03/24/26 13:46	1
Undecane	4.48	T J N	ug/L		3.14	1120-21-4	03/23/26 14:57	03/24/26 13:46	1
Unknown	1.41	T J	ug/L		3.89	N/A	03/23/26 14:57	03/24/26 13:46	1
9-Octadecenamide, (Z)-	0.982	T J N	ug/L		7.92	301-02-0	03/23/26 14:57	03/24/26 13:46	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Nitro-m-xylene	99		70 - 130	03/23/26 14:57	03/24/26 13:46	1
Perylene-d12	84		70 - 130	03/23/26 14:57	03/24/26 13:46	1
Triphenylphosphate	106		70 - 130	03/23/26 14:57	03/24/26 13:46	1

Lab Sample ID: LCS 380-215228/23-A
Matrix: Water
Analysis Batch: 215431

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 215228

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4'-DDD	1.96	2.21	ug/L		113	70 - 130	
2,4'-DDE	1.96	2.21	ug/L		113	70 - 130	

Eurofins Pomona

QC Sample Results

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

Job ID: 380-203947-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCS 380-215228/23-A

Matrix: Water

Analysis Batch: 215431

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 215228

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec Limits
	Added	Result	Qualifier				
2,4'-DDT	1.96	2.07		ug/L		105	70 - 130
2,4-Dinitrotoluene	1.96	2.36		ug/L		120	70 - 130
2,6-Dinitrotoluene	1.96	2.27		ug/L		116	70 - 130
2-Methylnaphthalene	1.96	1.96		ug/L		100	70 - 130
4,4'-DDD	1.96	2.43		ug/L		124	70 - 130
4,4'-DDE	1.96	2.14		ug/L		109	70 - 130
4,4'-DDT	1.96	2.30		ug/L		117	70 - 130
Acenaphthene	1.96	1.99		ug/L		101	70 - 130
Acenaphthylene	1.96	2.02		ug/L		103	70 - 130
Acetochlor	1.96	2.19		ug/L		111	70 - 130
Alachlor	1.96	2.28		ug/L		116	70 - 130
alpha-BHC	1.96	2.03		ug/L		103	70 - 130
alpha-Chlordane	1.96	2.16		ug/L		110	70 - 130
Anthracene	1.96	2.05		ug/L		104	70 - 130
Atrazine	1.96	2.23		ug/L		114	70 - 130
Benz(a)anthracene	1.96	1.96		ug/L		100	70 - 130
Benzo[a]pyrene	1.96	1.93		ug/L		98	70 - 130
Benzo[b]fluoranthene	1.96	2.07		ug/L		105	70 - 130
Benzo[g,h,i]perylene	1.96	1.99		ug/L		101	70 - 130
Benzo[k]fluoranthene	1.96	2.16		ug/L		110	70 - 130
beta-BHC	1.96	2.06		ug/L		105	70 - 130
Bis(2-ethylhexyl) phthalate	1.96	1.90		ug/L		97	70 - 130
Bromacil	1.96	1.76		ug/L		90	70 - 130
Butachlor	1.96	2.31		ug/L		118	70 - 130
Butylbenzylphthalate	1.96	2.20		ug/L		112	70 - 130
Chlorobenzilate	1.96	2.24		ug/L		114	70 - 130
Chloroneb	1.96	2.09		ug/L		107	70 - 130
Chlorothalonil (Draconil, Bravo)	1.96	2.22		ug/L		113	70 - 130
Chlorpyrifos	1.96	2.21		ug/L		113	70 - 130
Chrysene	1.96	2.00		ug/L		102	70 - 130
delta-BHC	1.96	1.95		ug/L		99	70 - 130
Di(2-ethylhexyl)adipate	1.96	2.09		ug/L		106	70 - 130
Dibenz(a,h)anthracene	1.96	2.00		ug/L		102	70 - 130
Diclorvos (DDVP)	1.96	2.11		ug/L		107	70 - 130
Dieldrin	1.96	2.20		ug/L		112	70 - 130
Diethylphthalate	1.96	2.23		ug/L		114	70 - 130
Dimethylphthalate	1.96	2.16		ug/L		110	70 - 130
Di-n-butyl phthalate	3.93	4.54		ug/L		116	70 - 130
Di-n-octyl phthalate	1.96	1.85		ug/L		94	70 - 130
Endosulfan I (Alpha)	1.96	2.01		ug/L		102	70 - 130
Endosulfan II (Beta)	1.96	2.01		ug/L		103	70 - 130
Endosulfan sulfate	1.96	2.10		ug/L		107	70 - 130
Endrin	1.96	2.48		ug/L		126	70 - 130
Endrin aldehyde	1.96	2.06		ug/L		105	60 - 130
EPTC	1.96	2.09		ug/L		106	70 - 130
Fluoranthene	1.96	2.12		ug/L		108	70 - 130
Fluorene	1.96	2.13		ug/L		108	70 - 130
gamma-Chlordane	1.96	2.25		ug/L		115	70 - 130
Heptachlor	1.96	2.52		ug/L		128	70 - 130

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QC Sample Results

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

Job ID: 380-203947-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCS 380-215228/23-A

Matrix: Water

Analysis Batch: 215431

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 215228

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Heptachlor epoxide (isomer B)	1.96	2.02		ug/L		103	70 - 130
Hexachlorobenzene	1.96	2.25		ug/L		115	70 - 130
Hexachlorocyclopentadiene	1.96	2.16		ug/L		110	70 - 130
Indeno[1,2,3-cd]pyrene	1.96	1.91		ug/L		97	70 - 130
Isophorone	1.96	1.85		ug/L		94	70 - 130
Lindane	1.96	2.19		ug/L		111	70 - 130
Malathion	1.96	2.19		ug/L		112	70 - 130
Methoxychlor	1.96	2.12		ug/L		108	70 - 130
Metolachlor	1.96	2.27		ug/L		116	70 - 130
Molinate	1.96	2.17		ug/L		111	70 - 130
Naphthalene	1.96	2.15		ug/L		110	70 - 130
Parathion	1.96	2.38		ug/L		121	70 - 130
Pendimethalin (Penoxaline)	1.96	2.33		ug/L		119	70 - 130
Phenanthrene	1.96	1.97		ug/L		101	70 - 130
Propachlor	1.96	2.27		ug/L		116	70 - 130
Pyrene	1.96	2.11		ug/L		107	70 - 130
Simazine	1.96	1.95		ug/L		99	70 - 130
Terbacil	1.96	1.80		ug/L		91	70 - 130
Terbutylazine	1.96	2.29		ug/L		117	70 - 130
Thiobencarb	1.96	2.16		ug/L		110	70 - 130
trans-Nonachlor	1.96	2.00		ug/L		102	70 - 130
Trifluralin	1.96	2.19		ug/L		111	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	99		70 - 130
Perylene-d12	91		70 - 130
Triphenylphosphate	106		70 - 130

Lab Sample ID: MRL 380-215228/22-A

Matrix: Water

Analysis Batch: 215431

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 215228

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	0.0982	0.113		ug/L		115	50 - 150
2,4'-DDD	0.0982	0.0818	J	ug/L		83	50 - 150
2,4'-DDE	0.0982	0.0941	J	ug/L		96	50 - 150
2,4'-DDT	0.0982	0.110		ug/L		112	50 - 150
2,4-Dinitrotoluene	0.0982	0.160	^3+	ug/L		163	50 - 150
2,6-Dinitrotoluene	0.0982	0.151	^3+	ug/L		153	50 - 150
2-Methylnaphthalene	0.0982	0.107		ug/L		108	50 - 150
4,4'-DDD	0.0982	0.0936	J	ug/L		95	50 - 150
4,4'-DDE	0.0982	0.0950	J	ug/L		97	50 - 150
4,4'-DDT	0.0982	0.114		ug/L		116	50 - 150
Acenaphthene	0.0982	0.106		ug/L		108	50 - 150
Acenaphthylene	0.0982	0.0895	J	ug/L		91	50 - 150
Acetochlor	0.0982	0.107		ug/L		109	50 - 150
Alachlor	0.0491	0.0497		ug/L		101	50 - 150
alpha-BHC	0.0982	0.103		ug/L		104	50 - 150

QC Sample Results

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

Job ID: 380-203947-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MRL 380-215228/22-A

Matrix: Water

Analysis Batch: 215431

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 215228

Analyte	Spike	MRL	MRL	Unit	D	%Rec	%Rec Limits
	Added	Result	Qualifier				
alpha-Chlordane	0.0246	<0.028		ug/L		101	50 - 150
Anthracene	0.0196	0.0206		ug/L		105	50 - 150
Atrazine	0.0491	0.0546		ug/L		111	50 - 150
Benz(a)anthracene	0.0491	0.0482	J	ug/L		98	50 - 150
Benzo[a]pyrene	0.0196	0.0112	J	ug/L		57	50 - 150
Benzo[b]fluoranthene	0.0196	0.0189	J	ug/L		96	50 - 150
Benzo[g,h,i]perylene	0.0491	0.0469	J	ug/L		96	50 - 150
Benzo[k]fluoranthene	0.0196	0.0184	J	ug/L		94	50 - 150
beta-BHC	0.0982	0.108		ug/L		110	50 - 150
Bis(2-ethylhexyl) phthalate	0.589	0.551	J	ug/L		94	50 - 150
Bromacil	0.0982	0.122		ug/L		124	50 - 150
Butachlor	0.0491	0.0546		ug/L		111	50 - 150
Butylbenzylphthalate	0.491	0.524		ug/L		107	50 - 150
Chlorobenzilate	0.0982	0.114		ug/L		116	50 - 150
Chloroneb	0.0982	0.109		ug/L		111	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0982	0.107		ug/L		109	50 - 150
Chlorpyrifos	0.0491	0.0476	J	ug/L		97	50 - 150
Chrysene	0.0196	0.0215		ug/L		110	50 - 150
delta-BHC	0.0982	0.108		ug/L		110	50 - 150
Di(2-ethylhexyl)adipate	0.589	0.618		ug/L		105	50 - 150
Dibenz(a,h)anthracene	0.0491	0.0479	J	ug/L		98	50 - 150
Diclorvos (DDVP)	0.0491	0.0637		ug/L		130	50 - 150
Dieldrin	0.00982	0.00911	J	ug/L		93	50 - 150
Diethylphthalate	0.491	0.548		ug/L		111	50 - 150
Dimethylphthalate	0.491	0.537		ug/L		109	50 - 150
Di-n-butyl phthalate	0.491	0.525	J	ug/L		107	49 - 243
Di-n-octyl phthalate	0.0982	0.0888	J	ug/L		90	50 - 150
Endosulfan I (Alpha)	0.0982	0.0932	J	ug/L		95	50 - 150
Endosulfan II (Beta)	0.0982	0.106		ug/L		108	50 - 150
Endosulfan sulfate	0.0982	0.115		ug/L		117	50 - 150
Endrin	0.00982	0.0106		ug/L		108	50 - 150
Endrin aldehyde	0.0982	0.0958	J	ug/L		97	50 - 150
EPTC	0.0982	0.0994		ug/L		101	50 - 150
Fluoranthene	0.0982	0.0974	J	ug/L		99	50 - 150
Fluorene	0.0491	0.0554		ug/L		113	50 - 150
gamma-Chlordane	0.0246	0.0236	J	ug/L		96	50 - 150
Heptachlor	0.00982	0.0121		ug/L		123	50 - 150
Heptachlor epoxide (isomer B)	0.00982	0.0100		ug/L		102	50 - 150
Hexachlorobenzene	0.0491	0.0529		ug/L		108	50 - 150
Hexachlorocyclopentadiene	0.0491	0.0613		ug/L		125	50 - 150
Indeno[1,2,3-cd]pyrene	0.0491	0.0432	J	ug/L		88	50 - 150
Isophorone	0.0982	0.108		ug/L		110	50 - 150
Lindane	0.00982	0.0119		ug/L		121	50 - 150
Malathion	0.0982	0.118		ug/L		121	50 - 150
Methoxychlor	0.0491	0.0508		ug/L		103	50 - 150
Metolachlor	0.0491	0.0577		ug/L		118	50 - 150
Molinate	0.0982	0.108		ug/L		110	50 - 150
Naphthalene	0.0982	0.108		ug/L		110	50 - 150
Parathion	0.0982	0.127		ug/L		129	50 - 150

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QC Sample Results

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

Job ID: 380-203947-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MRL 380-215228/22-A

Matrix: Water

Analysis Batch: 215431

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 215228

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Pendimethalin (Penoxaline)	0.0982	0.117		ug/L		119	50 - 150
Phenanthrene	0.0393	0.0464		ug/L		118	50 - 150
Propachlor	0.0491	0.0563		ug/L		115	50 - 150
Pyrene	0.0491	0.0485	J	ug/L		99	50 - 150
Simazine	0.0491	0.0574		ug/L		117	50 - 150
Terbacil	0.0982	0.103		ug/L		105	50 - 150
Terbutylazine	0.0982	0.0990		ug/L		101	50 - 150
Thiobencarb	0.0982	0.0970	J	ug/L		99	50 - 150
trans-Nonachlor	0.0246	<0.026		ug/L		91	50 - 150
Trifluralin	0.0982	0.120		ug/L		122	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
2-Nitro-m-xylene	99		70 - 130
Perylene-d12	84		70 - 130
Triphenylphosphate	100		70 - 130

Lab Sample ID: 380-202896-BE-1-A MS

Matrix: Water

Analysis Batch: 215431

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 215228

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.098		1.97	1.88		ug/L		95	70 - 130
2,4'-DDD	<0.098		1.97	2.22		ug/L		113	70 - 130
2,4'-DDE	<0.098		1.97	2.20		ug/L		112	70 - 130
2,4'-DDT	<0.098		1.97	2.08		ug/L		106	70 - 130
2,4-Dinitrotoluene	<0.098	^3+ F1 ^+	1.97	2.63	F1	ug/L		134	70 - 130
2,6-Dinitrotoluene	<0.098	^3+	1.97	2.51		ug/L		128	70 - 130
2-Methylnaphthalene	<0.098		1.97	1.97		ug/L		100	70 - 130
4,4'-DDD	<0.098		1.97	2.41		ug/L		122	70 - 130
4,4'-DDE	<0.098		1.97	2.10		ug/L		107	70 - 130
4,4'-DDT	<0.098		1.97	2.28		ug/L		116	70 - 130
Acenaphthene	<0.098		1.97	1.99		ug/L		101	70 - 130
Acenaphthylene	<0.098		1.97	2.06		ug/L		105	70 - 130
Acetochlor	<0.098		1.97	2.23		ug/L		113	70 - 130
Alachlor	<0.049		1.97	2.27		ug/L		116	70 - 130
alpha-BHC	<0.098		1.97	2.01		ug/L		102	70 - 130
alpha-Chlordane	<0.049		1.97	2.19		ug/L		111	70 - 130
Anthracene	<0.020		1.97	1.70		ug/L		87	70 - 130
Atrazine	<0.049		1.97	2.22		ug/L		113	70 - 130
Benz(a)anthracene	<0.049		1.97	1.91		ug/L		97	70 - 130
Benzo[a]pyrene	<0.020		1.97	1.83		ug/L		93	70 - 130
Benzo[b]fluoranthene	<0.020		1.97	2.09		ug/L		106	70 - 130
Benzo[g,h,i]perylene	<0.049		1.97	1.97		ug/L		100	70 - 130
Benzo[k]fluoranthene	<0.020		1.97	2.14		ug/L		109	70 - 130
beta-BHC	<0.098		1.97	2.06		ug/L		105	70 - 130
Bis(2-ethylhexyl) phthalate	<0.59		1.97	1.69		ug/L		86	70 - 130
Bromacil	<0.098		1.97	2.03		ug/L		103	70 - 130
Butachlor	<0.049		1.97	2.32		ug/L		118	70 - 130

QC Sample Results

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

Job ID: 380-203947-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: 380-202896-BE-1-A MS

Client Sample ID: Matrix Spike

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 215431

Prep Batch: 215228

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
Butylbenzylphthalate	<0.49		1.97	2.20		ug/L		112	70 - 130
Chlorobenzilate	<0.098		1.97	2.24		ug/L		114	70 - 130
Chloroneb	<0.098		1.97	2.11		ug/L		107	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.098		1.97	2.27		ug/L		116	70 - 130
Chlorpyrifos	<0.049		1.97	2.26		ug/L		115	70 - 130
Chrysene	<0.020		1.97	2.03		ug/L		103	70 - 130
delta-BHC	<0.098		1.97	1.96		ug/L		100	70 - 130
Di(2-ethylhexyl)adipate	<0.59		1.97	1.90		ug/L		97	70 - 130
Dibenz(a,h)anthracene	<0.049		1.97	1.97		ug/L		100	70 - 130
Diclorvos (DDVP)	<0.049		1.97	2.19		ug/L		111	70 - 130
Dieldrin	<0.0098		1.97	2.27		ug/L		115	70 - 130
Diethylphthalate	<0.49		1.97	2.24		ug/L		114	70 - 130
Dimethylphthalate	<0.49		1.97	2.19		ug/L		111	70 - 130
Di-n-butyl phthalate	<0.98		3.93	4.57		ug/L		116	70 - 130
Di-n-octyl phthalate	<0.098		1.97	1.55		ug/L		79	70 - 130
Endosulfan I (Alpha)	<0.098		1.97	2.06		ug/L		105	70 - 130
Endosulfan II (Beta)	<0.098		1.97	2.02		ug/L		103	70 - 130
Endosulfan sulfate	<0.098		1.97	2.11		ug/L		107	70 - 130
Endrin	<0.0098		1.97	2.50		ug/L		127	70 - 130
Endrin aldehyde	<0.098		1.97	1.86		ug/L		95	60 - 130
EPTC	<0.098		1.97	2.11		ug/L		107	70 - 130
Fluoranthene	<0.098		1.97	2.15		ug/L		110	70 - 130
Fluorene	<0.049		1.97	2.14		ug/L		109	70 - 130
gamma-Chlordane	<0.049		1.97	2.32		ug/L		118	70 - 130
Heptachlor	<0.0098	F1 ^+	1.97	2.57	F1	ug/L		131	70 - 130
Heptachlor epoxide (isomer B)	<0.0098		1.97	2.06		ug/L		105	70 - 130
Hexachlorobenzene	<0.049		1.97	2.25		ug/L		114	70 - 130
Hexachlorocyclopentadiene	<0.049		1.97	2.24		ug/L		114	70 - 130
Indeno[1,2,3-cd]pyrene	<0.049		1.97	1.91		ug/L		97	70 - 130
Isophorone	<0.098		1.97	1.89		ug/L		96	70 - 130
Lindane	<0.0098		1.97	2.21		ug/L		113	70 - 130
Malathion	<0.098		1.97	2.19		ug/L		111	70 - 130
Methoxychlor	<0.049		1.97	2.20		ug/L		112	70 - 130
Metolachlor	<0.049		1.97	2.28		ug/L		116	70 - 130
Molinate	<0.098		1.97	2.17		ug/L		111	70 - 130
Naphthalene	<0.098		1.97	2.14		ug/L		109	70 - 130
Parathion	<0.098		1.97	2.50		ug/L		127	70 - 130
Pendimethalin (Penoxaline)	<0.098		1.97	2.51		ug/L		128	70 - 130
Phenanthrene	<0.039		1.97	1.97		ug/L		100	70 - 130
Propachlor	<0.049		1.97	2.29		ug/L		116	70 - 130
Pyrene	<0.049		1.97	2.13		ug/L		108	70 - 130
Simazine	<0.049		1.97	2.04		ug/L		104	70 - 130
Terbacil	<0.098		1.97	1.72		ug/L		88	70 - 130
Terbutylazine	<0.098		1.97	2.29		ug/L		116	70 - 130
Thiobencarb	<0.098		1.97	2.18		ug/L		111	70 - 130
trans-Nonachlor	<0.049		1.97	2.05		ug/L		104	70 - 130
Trifluralin	<0.098		1.97	2.33		ug/L		119	70 - 130

QC Sample Results

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

Job ID: 380-203947-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: 380-202896-BE-1-A MS

Matrix: Water

Analysis Batch: 215431

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 215228

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	99		70 - 130
Perylene-d12	93		70 - 130
Triphenylphosphate	106		70 - 130

Lab Sample ID: 380-202851-AA-1-A DU

Matrix: Water

Analysis Batch: 215431

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 215228

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
1-Methylnaphthalene	<0.098		<0.098		ug/L		NC	20
2,4'-DDD	<0.098		<0.098		ug/L		NC	20
2,4'-DDE	<0.098		<0.098		ug/L		NC	20
2,4'-DDT	<0.098		<0.098		ug/L		NC	20
2,4-Dinitrotoluene	<0.098	^3+ ^^	<0.098		ug/L		NC	20
2,6-Dinitrotoluene	<0.098	^3+	<0.098		ug/L		NC	20
2-Methylnaphthalene	<0.098		<0.098		ug/L		NC	20
4,4'-DDD	<0.098		<0.098		ug/L		NC	20
4,4'-DDE	<0.098		<0.098		ug/L		NC	20
4,4'-DDT	<0.098		<0.098		ug/L		NC	20
Acenaphthene	<0.098		<0.098		ug/L		NC	20
Acenaphthylene	<0.098		<0.098		ug/L		NC	20
Acetochlor	<0.098		<0.098		ug/L		NC	20
Alachlor	<0.049		<0.049		ug/L		NC	20
alpha-BHC	<0.098		<0.098		ug/L		NC	20
alpha-Chlordane	<0.049		<0.049		ug/L		NC	20
Anthracene	<0.020		<0.020		ug/L		NC	20
Atrazine	<0.049		<0.049		ug/L		NC	20
Benz(a)anthracene	<0.049		<0.049		ug/L		NC	20
Benzo[a]pyrene	<0.020		<0.020		ug/L		NC	20
Benzo[b]fluoranthene	<0.020		<0.020		ug/L		NC	20
Benzo[g,h,i]perylene	<0.049		<0.049		ug/L		NC	20
Benzo[k]fluoranthene	<0.020		<0.020		ug/L		NC	20
beta-BHC	<0.098		<0.098		ug/L		NC	20
Bis(2-ethylhexyl) phthalate	<0.59		<0.59		ug/L		NC	20
Bromacil	<0.098		<0.098		ug/L		NC	20
Butachlor	<0.049		<0.049		ug/L		NC	20
Butylbenzylphthalate	<0.49		<0.49		ug/L		NC	20
Chlorobenzilate	<0.098		<0.098		ug/L		NC	20
Chloroneb	<0.098		<0.098		ug/L		NC	20
Chlorothalonil (Draconil, Bravo)	<0.098		<0.098		ug/L		NC	20
Chlorpyrifos	<0.049		<0.049		ug/L		NC	20
Chrysene	<0.020		<0.020		ug/L		NC	20
delta-BHC	<0.098		<0.098		ug/L		NC	20
Di(2-ethylhexyl)adipate	<0.59		<0.59		ug/L		NC	20
Dibenz(a,h)anthracene	<0.049		<0.049		ug/L		NC	20
Diclorvos (DDVP)	<0.049		<0.049		ug/L		NC	20
Dieldrin	<0.0098		<0.0098		ug/L		NC	20
Diethylphthalate	<0.49		<0.49		ug/L		NC	20

QC Sample Results

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

Job ID: 380-203947-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: 380-202851-AA-1-A DU
Matrix: Water
Analysis Batch: 215431

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 215228

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

Surrogate	DU	DU	Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	99		70 - 130
Perylene-d12	86		70 - 130
Triphenylphosphate	105		70 - 130

QC Sample Results

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

Job ID: 380-203947-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MB 570-712950/1-A
Matrix: Water
Analysis Batch: 719297

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 712950

<i>Tentatively Identified Compound</i>	<i>Est. Result</i>	<i>Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>RT</i>	<i>CAS No.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Tentatively Identified Compound</i>	<i>None</i>		<i>ug/L</i>			<i>N/A</i>	<i>03/22/26 15:29</i>	<i>04/03/26 16:40</i>	<i>1</i>

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>2,4,6-Tribromophenol (Surr)</i>	<i>87</i>		<i>33 - 139</i>	<i>03/22/26 15:29</i>	<i>04/03/26 16:40</i>	<i>1</i>
<i>2-Fluorobiphenyl (Surr)</i>	<i>93</i>		<i>33 - 126</i>	<i>03/22/26 15:29</i>	<i>04/03/26 16:40</i>	<i>1</i>
<i>2-Fluorophenol (Surr)</i>	<i>60</i>		<i>12 - 120</i>	<i>03/22/26 15:29</i>	<i>04/03/26 16:40</i>	<i>1</i>
<i>Nitrobenzene-d5 (Surr)</i>	<i>96</i>		<i>36 - 120</i>	<i>03/22/26 15:29</i>	<i>04/03/26 16:40</i>	<i>1</i>
<i>Phenol-d6 (Surr)</i>	<i>39</i>		<i>10 - 120</i>	<i>03/22/26 15:29</i>	<i>04/03/26 16:40</i>	<i>1</i>
<i>p-Terphenyl-d14 (Surr)</i>	<i>95</i>		<i>47 - 131</i>	<i>03/22/26 15:29</i>	<i>04/03/26 16:40</i>	<i>1</i>

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

Lab Sample ID: MB 570-712950/1-A
Matrix: Water
Analysis Batch: 714378

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 712950

<i>Analyte</i>	<i>Result</i>	<i>Qualifier</i>	<i>RL</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>1-Methylnaphthalene</i>	<i><0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>03/22/26 15:29</i>	<i>03/25/26 07:31</i>	<i>1</i>
<i>2-Methylnaphthalene</i>	<i><0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>03/22/26 15:29</i>	<i>03/25/26 07:31</i>	<i>1</i>
<i>Acenaphthene</i>	<i><0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>03/22/26 15:29</i>	<i>03/25/26 07:31</i>	<i>1</i>
<i>Acenaphthylene</i>	<i><0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>03/22/26 15:29</i>	<i>03/25/26 07:31</i>	<i>1</i>
<i>Anthracene</i>	<i><0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>03/22/26 15:29</i>	<i>03/25/26 07:31</i>	<i>1</i>
<i>Benzo[a]anthracene</i>	<i><0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>03/22/26 15:29</i>	<i>03/25/26 07:31</i>	<i>1</i>
<i>Benzo[a]pyrene</i>	<i><0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>03/22/26 15:29</i>	<i>03/25/26 07:31</i>	<i>1</i>
<i>Benzo[b]fluoranthene</i>	<i><0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>03/22/26 15:29</i>	<i>03/25/26 07:31</i>	<i>1</i>
<i>Benzo[g,h,i]perylene</i>	<i><0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>03/22/26 15:29</i>	<i>03/25/26 07:31</i>	<i>1</i>
<i>Benzo[k]fluoranthene</i>	<i><0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>03/22/26 15:29</i>	<i>03/25/26 07:31</i>	<i>1</i>
<i>Chrysene</i>	<i><0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>03/22/26 15:29</i>	<i>03/25/26 07:31</i>	<i>1</i>
<i>Dibenz(a,h)anthracene</i>	<i><0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>03/22/26 15:29</i>	<i>03/25/26 07:31</i>	<i>1</i>
<i>Fluoranthene</i>	<i><0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>03/22/26 15:29</i>	<i>03/25/26 07:31</i>	<i>1</i>
<i>Fluorene</i>	<i><0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>03/22/26 15:29</i>	<i>03/25/26 07:31</i>	<i>1</i>
<i>Indeno[1,2,3-cd]pyrene</i>	<i>0.209</i>	<i>B</i>	<i>0.20</i>	<i>ug/L</i>		<i>03/22/26 15:29</i>	<i>03/25/26 07:31</i>	<i>1</i>
<i>Naphthalene</i>	<i><0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>03/22/26 15:29</i>	<i>03/25/26 07:31</i>	<i>1</i>
<i>Phenanthrene</i>	<i><0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>03/22/26 15:29</i>	<i>03/25/26 07:31</i>	<i>1</i>
<i>Pyrene</i>	<i><0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>03/22/26 15:29</i>	<i>03/25/26 07:31</i>	<i>1</i>

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>2,4,6-Tribromophenol (Surr)</i>	<i>100</i>		<i>28 - 127</i>	<i>03/22/26 15:29</i>	<i>03/25/26 07:31</i>	<i>1</i>
<i>2-Fluorobiphenyl (Surr)</i>	<i>80</i>		<i>31 - 120</i>	<i>03/22/26 15:29</i>	<i>03/25/26 07:31</i>	<i>1</i>
<i>2-Fluorophenol (Surr)</i>	<i>55</i>		<i>17 - 120</i>	<i>03/22/26 15:29</i>	<i>03/25/26 07:31</i>	<i>1</i>
<i>Nitrobenzene-d5 (Surr)</i>	<i>98</i>		<i>27 - 120</i>	<i>03/22/26 15:29</i>	<i>03/25/26 07:31</i>	<i>1</i>
<i>Phenol-d6 (Surr)</i>	<i>32</i>		<i>10 - 120</i>	<i>03/22/26 15:29</i>	<i>03/25/26 07:31</i>	<i>1</i>
<i>p-Terphenyl-d14 (Surr)</i>	<i>81</i>		<i>45 - 120</i>	<i>03/22/26 15:29</i>	<i>03/25/26 07:31</i>	<i>1</i>

QC Sample Results

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

Job ID: 380-203947-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCS 570-712950/2-A

Matrix: Water

Analysis Batch: 714378

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 712950

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
1-Methylnaphthalene	20.0	14.7		ug/L		74	47 - 120	
2-Methylnaphthalene	20.0	14.8		ug/L		74	43 - 120	
Acenaphthene	20.0	17.7		ug/L		88	60 - 132	
Acenaphthylene	20.0	18.1		ug/L		91	54 - 126	
Anthracene	20.0	17.0		ug/L		85	43 - 120	
Benzo[a]anthracene	20.0	19.0		ug/L		95	42 - 133	
Benzo[a]pyrene	20.0	20.8		ug/L		104	32 - 148	
Benzo[b]fluoranthene	20.0	19.3		ug/L		97	42 - 140	
Benzo[g,h,i]perylene	20.0	17.6		ug/L		88	1 - 195	
Benzo[k]fluoranthene	20.0	18.5		ug/L		92	25 - 146	
Chrysene	20.0	18.5		ug/L		92	44 - 140	
Dibenz(a,h)anthracene	20.0	20.8		ug/L		104	1 - 200	
Fluoranthene	20.0	18.0		ug/L		90	43 - 121	
Fluorene	20.0	18.1		ug/L		90	70 - 120	
Indeno[1,2,3-cd]pyrene	20.0	20.4		ug/L		102	1 - 151	
Naphthalene	20.0	14.5		ug/L		73	36 - 120	
Phenanthrene	20.0	17.5		ug/L		87	65 - 120	
Pyrene	20.0	19.3		ug/L		97	70 - 120	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	99		28 - 127
2-Fluorobiphenyl (Surr)	86		31 - 120
2-Fluorophenol (Surr)	69		17 - 120
Nitrobenzene-d5 (Surr)	87		27 - 120
Phenol-d6 (Surr)	41		10 - 120
p-Terphenyl-d14 (Surr)	94		45 - 120

Lab Sample ID: LCSD 570-712950/3-A

Matrix: Water

Analysis Batch: 714378

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 712950

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits		RPD	
									RPD	Limit
1-Methylnaphthalene	20.0	14.7		ug/L		74	47 - 120	0	20	
2-Methylnaphthalene	20.0	15.0		ug/L		75	43 - 120	1	20	
Acenaphthene	20.0	18.3		ug/L		91	60 - 132	3	29	
Acenaphthylene	20.0	18.9		ug/L		94	54 - 126	4	45	
Anthracene	20.0	17.5		ug/L		87	43 - 120	3	40	
Benzo[a]anthracene	20.0	19.6		ug/L		98	42 - 133	3	32	
Benzo[a]pyrene	20.0	21.5		ug/L		108	32 - 148	3	43	
Benzo[b]fluoranthene	20.0	20.1		ug/L		101	42 - 140	4	43	
Benzo[g,h,i]perylene	20.0	18.2		ug/L		91	1 - 195	3	61	
Benzo[k]fluoranthene	20.0	18.6		ug/L		93	25 - 146	1	38	
Chrysene	20.0	18.9		ug/L		95	44 - 140	2	53	
Dibenz(a,h)anthracene	20.0	21.4		ug/L		107	1 - 200	3	75	
Fluoranthene	20.0	18.4		ug/L		92	43 - 121	2	40	
Fluorene	20.0	18.7		ug/L		94	70 - 120	4	23	
Indeno[1,2,3-cd]pyrene	20.0	21.2		ug/L		106	1 - 151	4	60	
Naphthalene	20.0	14.9		ug/L		74	36 - 120	2	39	

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QC Sample Results

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

Job ID: 380-203947-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCSD 570-712950/3-A
Matrix: Water
Analysis Batch: 714378

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 712950

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenanthrene	20.0	18.0		ug/L		90	65 - 120	3	24
Pyrene	20.0	19.5		ug/L		98	70 - 120	1	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
2,4,6-Tribromophenol (Surr)	103		28 - 127
2-Fluorobiphenyl (Surr)	87		31 - 120
2-Fluorophenol (Surr)	67		17 - 120
Nitrobenzene-d5 (Surr)	88		27 - 120
Phenol-d6 (Surr)	41		10 - 120
p-Terphenyl-d14 (Surr)	97		45 - 120

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

Lab Sample ID: MB 570-715724/6
Matrix: Water
Analysis Batch: 715724

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			03/27/26 12:25	1

Surrogate	MB %Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		38 - 134		03/27/26 12:25	1

Lab Sample ID: LCS 570-715724/3
Matrix: Water
Analysis Batch: 715724

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	420		ug/L		105	78 - 120

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

Lab Sample ID: LCSD 570-715724/4
Matrix: Water
Analysis Batch: 715724

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	417		ug/L		104	78 - 120	1	10

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

QC Sample Results

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

Job ID: 380-203947-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MRL 570-715724/5
Matrix: Water
Analysis Batch: 715724

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (C4-C13)	10.0	7.90	J	ug/L		79	50 - 150
Surrogate		MRL	MRL				Limits
4-Bromofluorobenzene (Surr)		88					38 - 134

Lab Sample ID: 380-203715-B-1 MS
Matrix: Water
Analysis Batch: 715724

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	416		ug/L		104	68 - 122
Surrogate		MS		MS					Limits
4-Bromofluorobenzene (Surr)		87							38 - 134

Lab Sample ID: 380-203715-B-1 MSD
Matrix: Water
Analysis Batch: 715724

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	413		ug/L		103	68 - 122	1	18
Surrogate		MSD		MSD					Limits		
4-Bromofluorobenzene (Surr)		88							38 - 134		

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

Lab Sample ID: MB 570-712308/1-A
Matrix: Water
Analysis Batch: 716423

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 712308

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<25		25	ug/L		03/20/26 11:44	03/29/26 17:04	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		03/20/26 11:44	03/29/26 17:04	1
C8-C18	<25		25	ug/L		03/20/26 11:44	03/29/26 17:04	1
Surrogate		MB				Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)		115				03/20/26 11:44	03/29/26 17:04	1

Lab Sample ID: LCS 570-712308/2-A
Matrix: Water
Analysis Batch: 716423

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 712308

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
C10-C28	1600	1520		ug/L		95	56 - 127

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QC Sample Results

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

Job ID: 380-203947-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCS 570-712308/2-A
Matrix: Water
Analysis Batch: 716423

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 712308

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
<i>n-Octacosane (Surr)</i>	122		60 - 130

Lab Sample ID: LCSD 570-712308/3-A
Matrix: Water
Analysis Batch: 716423

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 712308

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
C10-C28	1600	1570		ug/L	-	98	56 - 127	4	23

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
<i>n-Octacosane (Surr)</i>	125		60 - 130

Lab Sample ID: MRL 570-712308/4-A
Matrix: Water
Analysis Batch: 716423

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 712308

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
C10-C28	0.0200	0.0238	J	mg/L	-	119	50 - 150		

	MRL	MRL	
Surrogate	%Recovery	Qualifier	Limits
<i>n-Octacosane (Surr)</i>	110		60 - 130

Lab Sample ID: 380-203715-C-1-A MS
Matrix: Water
Analysis Batch: 716423

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 712308

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
C10-C28	<26		1650	1400		ug/L	-	85	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
<i>n-Octacosane (Surr)</i>	106		60 - 130

Lab Sample ID: 380-203715-C-1-B MSD
Matrix: Water
Analysis Batch: 716423

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 712308

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
C10-C28	<26		1690	1520		ug/L	-	90	70 - 130	9	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
<i>n-Octacosane (Surr)</i>	119		60 - 130

QC Association Summary

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

Job ID: 380-203947-1
 SDG: Weekly: Halawa Shaft Viewing Pool

GC/MS Semi VOA

Prep Batch: 215228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-203947-1	Halawa Shaft Viewing Pool	Total/NA	Drinking Water	525.2	
MB 380-215228/21-A	Method Blank	Total/NA	Water	525.2	
LCS 380-215228/23-A	Lab Control Sample	Total/NA	Water	525.2	
MRL 380-215228/22-A	Lab Control Sample	Total/NA	Water	525.2	
380-202896-BE-1-A MS	Matrix Spike	Total/NA	Water	525.2	
380-202851-AA-1-A DU	Duplicate	Total/NA	Water	525.2	

Analysis Batch: 215431

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-203947-1	Halawa Shaft Viewing Pool	Total/NA	Drinking Water	525.2	215228
MB 380-215228/21-A	Method Blank	Total/NA	Water	525.2	215228
LCS 380-215228/23-A	Lab Control Sample	Total/NA	Water	525.2	215228
MRL 380-215228/22-A	Lab Control Sample	Total/NA	Water	525.2	215228
380-202896-BE-1-A MS	Matrix Spike	Total/NA	Water	525.2	215228
380-202851-AA-1-A DU	Duplicate	Total/NA	Water	525.2	215228

Prep Batch: 712950

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-203947-1	Halawa Shaft Viewing Pool	Total/NA	Drinking Water	625.1	
MB 570-712950/1-A	Method Blank	Total/NA	Water	625.1	
LCS 570-712950/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 570-712950/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	

Analysis Batch: 714378

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-203947-1	Halawa Shaft Viewing Pool	Total/NA	Drinking Water	625.1 SIM	712950
MB 570-712950/1-A	Method Blank	Total/NA	Water	625.1 SIM	712950
LCS 570-712950/2-A	Lab Control Sample	Total/NA	Water	625.1 SIM	712950
LCSD 570-712950/3-A	Lab Control Sample Dup	Total/NA	Water	625.1 SIM	712950

Analysis Batch: 719297

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-203947-1	Halawa Shaft Viewing Pool	Total/NA	Drinking Water	625.1	712950
MB 570-712950/1-A	Method Blank	Total/NA	Water	625.1	712950

GC VOA

Analysis Batch: 715724

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-203947-1	Halawa Shaft Viewing Pool	Total/NA	Drinking Water	8015B GRO LL	
380-203947-2	TB: Halawa Shaft Viewing Pool	Total/NA	Water	8015B GRO LL	
MB 570-715724/6	Method Blank	Total/NA	Water	8015B GRO LL	
LCS 570-715724/3	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-715724/4	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	
MRL 570-715724/5	Lab Control Sample	Total/NA	Water	8015B GRO LL	
380-203715-B-1 MS	Matrix Spike	Total/NA	Water	8015B GRO LL	
380-203715-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: 380-203947-1
 SDG: Weekly: Halawa Shaft Viewing Pool

GC Semi VOA

Prep Batch: 712308

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-203947-1	Halawa Shaft Viewing Pool	Total/NA	Drinking Water	3510C	
MB 570-712308/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-712308/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-712308/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-712308/4-A	Lab Control Sample	Total/NA	Water	3510C	
380-203715-C-1-A MS	Matrix Spike	Total/NA	Water	3510C	
380-203715-C-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

Analysis Batch: 716423

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-203947-1	Halawa Shaft Viewing Pool	Total/NA	Drinking Water	8015B	712308
MB 570-712308/1-A	Method Blank	Total/NA	Water	8015B	712308
LCS 570-712308/2-A	Lab Control Sample	Total/NA	Water	8015B	712308
LCSD 570-712308/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	712308
MRL 570-712308/4-A	Lab Control Sample	Total/NA	Water	8015B	712308
380-203715-C-1-A MS	Matrix Spike	Total/NA	Water	8015B	712308
380-203715-C-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	8015B	712308



Lab Chronicle

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

Job ID: 380-203947-1
 SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: Halawa Shaft Viewing Pool

Lab Sample ID: 380-203947-1

Date Collected: 03/17/26 09:30

Matrix: Drinking Water

Date Received: 03/19/26 10:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			215228	IQ42	EA POM	03/23/26 14:57
Total/NA	Analysis	525.2		1	215431	Q8LA	EA POM	03/24/26 18:52
Total/NA	Prep	625.1			712950	BN8X	EET CAL 4	03/22/26 15:29
Total/NA	Analysis	625.1		1	719297	J7WE	EET CAL 4	04/03/26 17:04
Total/NA	Prep	625.1			712950	BN8X	EET CAL 4	03/22/26 15:29
Total/NA	Analysis	625.1 SIM		1	714378	PQS1	EET CAL 4	03/25/26 08:58
Total/NA	Analysis	8015B GRO LL		1	715724	A9VE	EET CAL 4	03/27/26 20:38
Total/NA	Prep	3510C			712308	EP2G	EET CAL 4	03/20/26 11:45
Total/NA	Analysis	8015B		1	716423	H6FE	EET CAL 4	03/29/26 20:38

Client Sample ID: TB: Halawa Shaft Viewing Pool

Lab Sample ID: 380-203947-2

Date Collected: 03/17/26 09:30

Matrix: Water

Date Received: 03/19/26 10:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	715724	A9VE	EET CAL 4	03/27/26 15:48

Laboratory References:

EA POM = Eurofins 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: 380-203947-1
 SDG: Weekly: Halawa Shaft Viewing Pool

Laboratory: Eurofins 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	Drinking Water	1-Methylnaphthalene
525.2	525.2	Drinking Water	2,4'-DDD
525.2	525.2	Drinking Water	2,4'-DDE
525.2	525.2	Drinking Water	2,4'-DDT
525.2	525.2	Drinking Water	2,4-Dinitrotoluene
525.2	525.2	Drinking Water	2,6-Dinitrotoluene
525.2	525.2	Drinking Water	2-Methylnaphthalene
525.2	525.2	Drinking Water	4,4'-DDD
525.2	525.2	Drinking Water	4,4'-DDE
525.2	525.2	Drinking Water	4,4' DDT
525.2	525.2	Drinking Water	Acetochlor
525.2	525.2	Drinking Water	alpha-BHC
525.2	525.2	Drinking Water	alpha-Chlordane
525.2	525.2	Drinking Water	beta-BHC
525.2	525.2	Drinking Water	Chlorobenzilate
525.2	525.2	Drinking Water	Chloroneb
525.2	525.2	Drinking Water	Chlorothalonil (Draconil, Bravo)
525.2	525.2	Drinking Water	Chlorpyrifos
525.2	525.2	Drinking Water	delta-BHC
525.2	525.2	Drinking Water	Diclorvos (DDVP)
525.2	525.2	Drinking Water	Endosulfan I (Alpha)
525.2	525.2	Drinking Water	Endosulfan II (Beta)
525.2	525.2	Drinking Water	Endosulfan sulfate
525.2	525.2	Drinking Water	Endrin aldehyde
525.2	525.2	Drinking Water	EPTC
525.2	525.2	Drinking Water	gamma-Chlordane
525.2	525.2	Drinking Water	Isophorone
525.2	525.2	Drinking Water	Malathion
525.2	525.2	Drinking Water	Parathion
525.2	525.2	Drinking Water	Pendimethalin (Penoxaline)
525.2	525.2	Drinking Water	Terbacil
525.2	525.2	Drinking Water	Terbutylazine
525.2	525.2	Drinking Water	Total Permethrin (mixed isomers)
525.2	525.2	Drinking 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	03-02-27
Arizona	State	AZ0830	11-17-26
California	Los Angeles County Sanitation Districts	9257304	07-31-26
California	SCAQMD LAP	17LA0919	11-30-26

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

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

Job ID: 380-203947-1
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	02-02-27
USDA	US Federal Programs	525-23-159-97150	06-08-26
Utah	NELAP	CA00111	02-28-27
Washington	State	C916	10-12-26

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Method Summary

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

Job ID: 380-203947-1
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 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: 380-203947-1
SDG: Weekly: Halawa Shaft Viewing Pool

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
380-203947-1	Halawa Shaft Viewing Pool	Drinking Water	03/17/26 09:30	03/19/26 10:13	Hawaii
380-203947-2	TB: Halawa Shaft Viewing Pool	Water	03/17/26 09:30	03/19/26 10:13	Hawaii

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Chain of Custody Record

Client Information		Sampler: Jason Rakotisky		Lab PM: Arada, Rachelle		Carrier Tracking No(s):		COC No: 380-28005-2757 1	
Client Contact: Mr. Kirk Iwamoto		Phone: +1 808 748 5840		E-Mail: Rachelle.Arada@et.eurofins.com		State of Origin:		Page: Page 1 of 2	
Company: City & County of Honolulu		Due Date Requested:		Analysis Requested		Total Number of Containers		Job #:	
Address: 630 South Beretania Street Chemistry Lab		TAT Requested (days):		Perform MS/MSD (Yes or No)		Field Filtered Sample (Yes or No)		Preservation Codes: R - NaThioSO4 RA - NaThioHCl Q - Na2SO3 QA - Na2SO3/HCl Y - Trizma I - NH4 Acetate	
City: Honolulu		Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		PO #: C20525101 exp 05312023		Project #: 38001111		Other:	
State, Zip: HI, 96843		PO #: C20525101 exp 05312023		WO #:		SSOW #:		Special Instructions/Note:	
Phone: 808-748-5840 (Tel)		Sample Date		Sample Type (C=Comp, G=grab)		Preservation Code:			
Email: kiwamoto@hbws.org		17-Mar-2026		G		Water			
Project Name: RED-HILL/HBWS Sites Event Desc: RUSH Weekly Red Hill		17-Mar-2026		G		Water			
Site: Hawaii									
Sample Identification		Sample Date		Sample Type (C=Comp, G=grab)		Preservation Code:			
Halawa Shaft Viewing Pool		17-Mar-2026		G		Water			
TB: Halawa Shaft Viewing Pool									
Possible Hazard Identification		<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab		Archive For		Months	
Deliverable Requested: I, II, III, IV, Other (specify)									
Empty Kit Relinquished by		Date/Time: 3/18/26 11:00		Date/Time: 3/19/26 10:13		Date/Time: 3/19/26 10:13		Company: EFAO	
Relinquished by: [Redacted]		Company: HBWS		Received by: [Signature]		Date/Time: 3/19/26 10:13		Company: EFAO	
Relinquished by:		Company: [Redacted]		Received by:		Date/Time:		Company:	
Custody Seals Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 75.1A 5.5 / 5.5 401 Freon					



Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-203947-1
SDG Number: Weekly: Halawa Shaft Viewing Pool

Login Number: 203947

List Number: 1

Creator: Tran, Kristine

List Source: Eurofins 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: 380-203947-1
SDG Number: Weekly: Halawa Shaft Viewing Pool

Login Number: 203947

List Number: 2

Creator: Khana, Piyush

List Source: Eurofins Calscience

List Creation: 03/19/26 06:35 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.	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	1.6
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	fgf5
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

