

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Erwin Kawata
City & County of Honolulu
630 South Beretania Street
Public Service Bldg. Room 310
Honolulu, Hawaii 96843

Generated 9/29/2026 5:05:27 PM

JOB DESCRIPTION

RED-HILL
Weekly: Halawa Shaft Viewing Pool

JOB NUMBER

380-236921-1

Eurofins 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 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
Maria Lopez, Project Manager
Maria.Lopez@et.eurofinsus.com
(626)386-1145

Generated
9/29/2026 5:05:27 PM

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Detection Summary	6
Client Sample Results	7
Action Limit Summary	11
Surrogate Summary	12
QC Sample Results	14
QC Association Summary	31
Lab Chronicle	33
Certification Summary	34
Method Summary	36
Sample Summary	37
Chain of Custody	38
Receipt Checklists	41



Definitions/Glossary

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

Job ID: 380-236921-1
SDG: Weekly: Halawa Shaft Viewing Pool

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
^3+	Reporting Limit Check Standard is outside acceptance limits, high biased
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA TICs

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

GC Semi VOA

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

Glossary

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

Case Narrative

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

Job ID: 380-236921-1

Job ID: 380-236921-1

Eurofins Pomona

Job Narrative 380-236921-1

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 9/17/2026 9:35 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.6°C and 3.1°C.

GC/MS Semi VOA

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.

Eurofins Pomona

Detection Summary

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

Job ID: 380-236921-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: HALAWA SHAFT VIEWING POOL

Lab Sample ID: 380-236921-1

☐ No Detections.

Client Sample ID: TB: HALAWA SHAFT VIEWING POOL

Lab Sample ID: 380-236921-2

☐ No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Pomona

Client Sample Results

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

Job ID: 380-236921-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: HALAWA SHAFT VIEWING POOL

Lab Sample ID: 380-236921-1

Date Collected: 09/15/26 09:30

Matrix: Water

Date Received: 09/17/26 09:35

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.096		0.096	ug/L		09/18/26 09:57	09/22/26 12:00	1
2,4'-DDD	<0.096		0.096	ug/L		09/18/26 09:57	09/22/26 12:00	1
2,4'-DDE	<0.096		0.096	ug/L		09/18/26 09:57	09/22/26 12:00	1
2,4'-DDT	<0.096	^3+	0.096	ug/L		09/18/26 09:57	09/22/26 12:00	1
2,4-Dinitrotoluene	<0.096		0.096	ug/L		09/18/26 09:57	09/22/26 12:00	1
2,6-Dinitrotoluene	<0.096		0.096	ug/L		09/18/26 09:57	09/22/26 12:00	1
2-Methylnaphthalene	<0.096		0.096	ug/L		09/18/26 09:57	09/22/26 12:00	1
4,4'-DDD	<0.096	^3+	0.096	ug/L		09/18/26 09:57	09/22/26 12:00	1
4,4'-DDE	<0.096		0.096	ug/L		09/18/26 09:57	09/22/26 12:00	1
4,4'-DDT	<0.096		0.096	ug/L		09/18/26 09:57	09/22/26 12:00	1
Acenaphthene	<0.096		0.096	ug/L		09/18/26 09:57	09/22/26 12:00	1
Acenaphthylene	<0.096		0.096	ug/L		09/18/26 09:57	09/22/26 12:00	1
Acetochlor	<0.096		0.096	ug/L		09/18/26 09:57	09/22/26 12:00	1
Alachlor	<0.048	^3+	0.048	ug/L		09/18/26 09:57	09/22/26 12:00	1
alpha-BHC	<0.096		0.096	ug/L		09/18/26 09:57	09/22/26 12:00	1
alpha-Chlordane	<0.048	^3+	0.048	ug/L		09/18/26 09:57	09/22/26 12:00	1
Anthracene	<0.019		0.019	ug/L		09/18/26 09:57	09/22/26 12:00	1
Atrazine	<0.048	^3+	0.048	ug/L		09/18/26 09:57	09/22/26 12:00	1
Benz(a)anthracene	<0.048		0.048	ug/L		09/18/26 09:57	09/22/26 12:00	1
Benzo[a]pyrene	<0.019		0.019	ug/L		09/18/26 09:57	09/22/26 12:00	1
Benzo[b]fluoranthene	<0.019		0.019	ug/L		09/18/26 09:57	09/22/26 12:00	1
Benzo[g,h,i]perylene	<0.048		0.048	ug/L		09/18/26 09:57	09/22/26 12:00	1
Benzo[k]fluoranthene	<0.019		0.019	ug/L		09/18/26 09:57	09/22/26 12:00	1
beta-BHC	<0.096	^3+	0.096	ug/L		09/18/26 09:57	09/22/26 12:00	1
Bis(2-ethylhexyl) phthalate	<0.57	^3+	0.57	ug/L		09/18/26 09:57	09/22/26 12:00	1
Bromacil	<0.096		0.096	ug/L		09/18/26 09:57	09/22/26 12:00	1
Butachlor	<0.048	^3+	0.048	ug/L		09/18/26 09:57	09/22/26 12:00	1
Butylbenzylphthalate	<0.48	^3+	0.48	ug/L		09/18/26 09:57	09/22/26 12:00	1
Chlorobenzilate	<0.096		0.096	ug/L		09/18/26 09:57	09/22/26 12:00	1
Chloroneb	<0.096		0.096	ug/L		09/18/26 09:57	09/22/26 12:00	1
Chlorothalonil (Draconil, Bravo)	<0.096		0.096	ug/L		09/18/26 09:57	09/22/26 12:00	1
Chlorpyrifos	<0.048		0.048	ug/L		09/18/26 09:57	09/22/26 12:00	1
Chrysene	<0.019	^3+	0.019	ug/L		09/18/26 09:57	09/22/26 12:00	1
delta-BHC	<0.096		0.096	ug/L		09/18/26 09:57	09/22/26 12:00	1
Di(2-ethylhexyl)adipate	<0.57	^3+	0.57	ug/L		09/18/26 09:57	09/22/26 12:00	1
Dibenz(a,h)anthracene	<0.048		0.048	ug/L		09/18/26 09:57	09/22/26 12:00	1
Diclorvos (DDVP)	<0.048		0.048	ug/L		09/18/26 09:57	09/22/26 12:00	1
Dieldrin	<0.0096		0.0096	ug/L		09/18/26 09:57	09/22/26 12:00	1
Diethylphthalate	<0.48	^3+	0.48	ug/L		09/18/26 09:57	09/22/26 12:00	1
Dimethylphthalate	<0.48	^3+	0.48	ug/L		09/18/26 09:57	09/22/26 12:00	1
Di-n-butyl phthalate	<0.96		0.96	ug/L		09/18/26 09:57	09/22/26 12:00	1
Di-n-octyl phthalate	<0.096		0.096	ug/L		09/18/26 09:57	09/22/26 12:00	1
Endosulfan I (Alpha)	<0.096		0.096	ug/L		09/18/26 09:57	09/22/26 12:00	1
Endosulfan II (Beta)	<0.096		0.096	ug/L		09/18/26 09:57	09/22/26 12:00	1
Endosulfan sulfate	<0.096		0.096	ug/L		09/18/26 09:57	09/22/26 12:00	1
Endrin	<0.0096		0.0096	ug/L		09/18/26 09:57	09/22/26 12:00	1
Endrin aldehyde	<0.096		0.096	ug/L		09/18/26 09:57	09/22/26 12:00	1
EPTC	<0.096		0.096	ug/L		09/18/26 09:57	09/22/26 12:00	1
Fluoranthene	<0.096		0.096	ug/L		09/18/26 09:57	09/22/26 12:00	1

Eurofins Pomona

Client Sample Results

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

Job ID: 380-236921-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: HALAWA SHAFT VIEWING POOL

Lab Sample ID: 380-236921-1

Date Collected: 09/15/26 09:30

Matrix: Water

Date Received: 09/17/26 09:35

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	<0.048		0.048	ug/L		09/18/26 09:57	09/22/26 12:00	1
gamma-Chlordane	<0.048		0.048	ug/L		09/18/26 09:57	09/22/26 12:00	1
Heptachlor	<0.0096	^3+	0.0096	ug/L		09/18/26 09:57	09/22/26 12:00	1
Heptachlor epoxide (isomer B)	<0.0096		0.0096	ug/L		09/18/26 09:57	09/22/26 12:00	1
Hexachlorobenzene	<0.048		0.048	ug/L		09/18/26 09:57	09/22/26 12:00	1
Hexachlorocyclopentadiene	<0.048		0.048	ug/L		09/18/26 09:57	09/22/26 12:00	1
Indeno[1,2,3-cd]pyrene	<0.048		0.048	ug/L		09/18/26 09:57	09/22/26 12:00	1
Isophorone	<0.096		0.096	ug/L		09/18/26 09:57	09/22/26 12:00	1
Lindane	<0.0096		0.0096	ug/L		09/18/26 09:57	09/22/26 12:00	1
Malathion	<0.096		0.096	ug/L		09/18/26 09:57	09/22/26 12:00	1
Methoxychlor	<0.048	^3+	0.048	ug/L		09/18/26 09:57	09/22/26 12:00	1
Metolachlor	<0.048		0.048	ug/L		09/18/26 09:57	09/22/26 12:00	1
Molinate	<0.096		0.096	ug/L		09/18/26 09:57	09/22/26 12:00	1
Naphthalene	<0.096		0.096	ug/L		09/18/26 09:57	09/22/26 12:00	1
Parathion	<0.096		0.096	ug/L		09/18/26 09:57	09/22/26 12:00	1
Pendimethalin (Penoxaline)	<0.096		0.096	ug/L		09/18/26 09:57	09/22/26 12:00	1
Phenanthrene	<0.038		0.038	ug/L		09/18/26 09:57	09/22/26 12:00	1
Propachlor	<0.048		0.048	ug/L		09/18/26 09:57	09/22/26 12:00	1
Pyrene	<0.048		0.048	ug/L		09/18/26 09:57	09/22/26 12:00	1
Simazine	<0.048		0.048	ug/L		09/18/26 09:57	09/22/26 12:00	1
Terbacil	<0.096		0.096	ug/L		09/18/26 09:57	09/22/26 12:00	1
Terbutylazine	<0.096	^3+	0.096	ug/L		09/18/26 09:57	09/22/26 12:00	1
Thiobencarb	<0.096		0.096	ug/L		09/18/26 09:57	09/22/26 12:00	1
Total Permethrin (mixed isomers)	<0.19		0.19	ug/L		09/18/26 09:57	09/22/26 12:00	1
trans-Nonachlor	<0.048		0.048	ug/L		09/18/26 09:57	09/22/26 12:00	1
Trifluralin	<0.096		0.096	ug/L		09/18/26 09:57	09/22/26 12:00	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	09/18/26 09:57	09/22/26 12:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	98		70 - 130	09/18/26 09:57	09/22/26 12:00	1
Perylene-d12	90		70 - 130	09/18/26 09:57	09/22/26 12:00	1
Triphenylphosphate	105		70 - 130	09/18/26 09:57	09/22/26 12:00	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		09/19/26 08:06	09/27/26 17:25	1
2-Methylnaphthalene	<0.19		0.19	ug/L		09/19/26 08:06	09/27/26 17:25	1
Acenaphthene	<0.19		0.19	ug/L		09/19/26 08:06	09/27/26 17:25	1
Acenaphthylene	<0.19		0.19	ug/L		09/19/26 08:06	09/27/26 17:25	1
Anthracene	<0.19		0.19	ug/L		09/19/26 08:06	09/27/26 17:25	1
Benzo[a]anthracene	<0.19		0.19	ug/L		09/19/26 08:06	09/27/26 17:25	1
Benzo[a]pyrene	<0.19		0.19	ug/L		09/19/26 08:06	09/27/26 17:25	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		09/19/26 08:06	09/27/26 17:25	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		09/19/26 08:06	09/27/26 17:25	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		09/19/26 08:06	09/27/26 17:25	1
Chrysene	<0.19		0.19	ug/L		09/19/26 08:06	09/27/26 17:25	1
Dibenz(a,h)anthracene	<0.19		0.19	ug/L		09/19/26 08:06	09/27/26 17:25	1
Fluoranthene	<0.19		0.19	ug/L		09/19/26 08:06	09/27/26 17:25	1

Eurofins Pomona

Client Sample Results

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

Job ID: 380-236921-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: HALAWA SHAFT VIEWING POOL

Lab Sample ID: 380-236921-1

Date Collected: 09/15/26 09:30

Matrix: Water

Date Received: 09/17/26 09:35

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		09/19/26 08:06	09/27/26 17:25	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		09/19/26 08:06	09/27/26 17:25	1
Naphthalene	<0.19		0.19	ug/L		09/19/26 08:06	09/27/26 17:25	1
Phenanthrene	<0.19		0.19	ug/L		09/19/26 08:06	09/27/26 17:25	1
Pyrene	<0.19		0.19	ug/L		09/19/26 08:06	09/27/26 17:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	68		28 - 127	09/19/26 08:06	09/27/26 17:25	1
2-Fluorobiphenyl (Surr)	66		31 - 120	09/19/26 08:06	09/27/26 17:25	1
2-Fluorophenol (Surr)	40		17 - 120	09/19/26 08:06	09/27/26 17:25	1
Nitrobenzene-d5 (Surr)	72		27 - 120	09/19/26 08:06	09/27/26 17:25	1
Phenol-d6 (Surr)	25		10 - 120	09/19/26 08:06	09/27/26 17:25	1
p-Terphenyl-d14 (Surr)	66		45 - 120	09/19/26 08:06	09/27/26 17:25	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
Methylene Chloride	4.6	T J N	ug/L		1.62	75-09-2	09/19/26 08:06	09/27/26 18:56	1
3-Penten-2-one, 4-methyl-	70	T J N	ug/L		1.79	141-79-7	09/19/26 08:06	09/27/26 18:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	57		33 - 139	09/19/26 08:06	09/27/26 18:56	1
2-Fluorobiphenyl (Surr)	73		33 - 126	09/19/26 08:06	09/27/26 18:56	1
2-Fluorophenol (Surr)	39		12 - 120	09/19/26 08:06	09/27/26 18:56	1
Nitrobenzene-d5 (Surr)	66		36 - 120	09/19/26 08:06	09/27/26 18:56	1
Phenol-d6 (Surr)	23		10 - 120	09/19/26 08:06	09/27/26 18:56	1
p-Terphenyl-d14 (Surr)	78		47 - 131	09/19/26 08:06	09/27/26 18:56	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	<10		10	ug/L			09/22/26 19:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		38 - 134		09/22/26 19:11	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		09/17/26 21:12	09/20/26 04:17	1
Motor Oil Range Organics [C24-C36]	<26		26	ug/L		09/17/26 21:12	09/20/26 04:17	1
C8-C18	<26		26	ug/L		09/17/26 21:12	09/20/26 04:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	105		60 - 130	09/17/26 21:12	09/20/26 04:17	1

Client Sample ID: TB: HALAWA SHAFT VIEWING POOL

Lab Sample ID: 380-236921-2

Date Collected: 09/15/26 09:30

Matrix: Water

Date Received: 09/17/26 09:35

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	<10		10	ug/L			09/22/26 16:19	1

Eurofins Pomona

Client Sample Results

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

Job ID: 380-236921-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: TB: HALAWA SHAFT VIEWING POOL
Date Collected: 09/15/26 09:30
Date Received: 09/17/26 09:35

Lab Sample ID: 380-236921-2
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		38 - 134		09/22/26 16:19	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: 380-236921-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: HALAWA SHAFT VIEWING POOL

Lab Sample ID: 380-236921-1

Compliance Check

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

Analyte	Result	Qualifier	Unit	EPAMCL	RL	Method	Prep Type
				Limit			
Alachlor	<0.048	^3+	ug/L	2	0.048	525.2	Total/NA
Atrazine	<0.048	^3+	ug/L	3	0.048	525.2	Total/NA
Benzo[a]pyrene	<0.019		ug/L	0.2	0.019	525.2	Total/NA
Bis(2-ethylhexyl) phthalate	<0.57	^3+	ug/L	6	0.57	525.2	Total/NA
Di(2-ethylhexyl)adipate	<0.57	^3+	ug/L	400	0.57	525.2	Total/NA
Endrin	<0.0096		ug/L	2	0.0096	525.2	Total/NA
Heptachlor	<0.0096	^3+	ug/L	0.4	0.0096	525.2	Total/NA
Heptachlor epoxide (isomer B)	<0.0096		ug/L	0.2	0.0096	525.2	Total/NA
Hexachlorobenzene	<0.048		ug/L	1	0.048	525.2	Total/NA
Hexachlorocyclopentadiene	<0.048		ug/L	50	0.048	525.2	Total/NA
Lindane	<0.0096		ug/L	0.2	0.0096	525.2	Total/NA
Methoxychlor	<0.048	^3+	ug/L	40	0.048	525.2	Total/NA
Simazine	<0.048		ug/L	4	0.048	525.2	Total/NA
Benzo[a]pyrene	<0.19		ug/L	0.2	0.19	625.1 SIM	Total/NA

Surrogate Summary

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

Job ID: 380-236921-1
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)
380-236886-U-1-A MS	Matrix Spike	96	96	101
380-236921-1	HALAWA SHAFT VIEWING POOL	98	90	105
380-237040-T-1-A DU	Duplicate	96	91	102
LCS 380-253345/23-A	Lab Control Sample	95	98	109
LCSD 380-253345/24-A	Lab Control Sample Dup	96	99	104
MB 380-253345/21-A	Method Blank	98	93	99
MRL 380-253345/22-A	Lab Control Sample	96	92	101

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)
380-236921-1	HALAWA SHAFT VIEWING POC	57	73	39	66	23	78
MB 570-802543/1-A	Method Blank	82	91	54	86	19	104

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)
380-236599-A-1-D MS	Matrix Spike	85	81	53	66	38	89
380-236599-A-1-E MSD	Matrix Spike Duplicate	76	73	46	61	32	78
380-236921-1	HALAWA SHAFT VIEWING POOL	68	66	40	72	25	66
LCS 570-802543/2-A	Lab Control Sample	78	76	51	72	35	83
LCSD 570-802543/3-A	Lab Control Sample Dup	89	87	66	85	44	95
MB 570-802543/1-A	Method Blank	95	79	49	83	30	79

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)

FBP = 2-Fluorobiphenyl (Surr)

2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

PHL6 = Phenol-d6 (Surr)

TPHd14 = p-Terphenyl-d14 (Surr)

Eurofins Pomona

Surrogate Summary

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

Job ID: 380-236921-1
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)
380-236599-C-1 MS	Matrix Spike	94
380-236599-C-1 MSD	Matrix Spike Duplicate	97
380-236921-1	HALAWA SHAFT VIEWING POOL	91
380-236921-2	TB: HALAWA SHAFT VIEWING POOL	89
LCS 570-803805/3	Lab Control Sample	89
LCSD 570-803805/4	Lab Control Sample Dup	87
MB 570-803805/6	Method Blank	80
MRL 570-803805/5	Lab Control Sample	83

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)
380-236599-B-1-A MS	Matrix Spike	116
380-236599-B-1-B MSD	Matrix Spike Duplicate	104
380-236921-1	HALAWA SHAFT VIEWING POOL	105
LCS 570-801871/2-A	Lab Control Sample	108
LCSD 570-801871/3-A	Lab Control Sample Dup	100
MB 570-801871/1-A	Method Blank	106
MRL 570-801871/4-A	Lab Control Sample	124

Surrogate Legend

OTCSN = n-Octacosane (Surr)

QC Sample Results

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

Job ID: 380-236921-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MB 380-253345/21-A

Matrix: Water

Analysis Batch: 253894

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 253345

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.099		0.099	ug/L		09/18/26 09:57	09/22/26 09:19	1
2,4'-DDD	<0.099		0.099	ug/L		09/18/26 09:57	09/22/26 09:19	1
2,4'-DDE	<0.099		0.099	ug/L		09/18/26 09:57	09/22/26 09:19	1
2,4'-DDT	<0.099	^3+	0.099	ug/L		09/18/26 09:57	09/22/26 09:19	1
2,4-Dinitrotoluene	<0.099		0.099	ug/L		09/18/26 09:57	09/22/26 09:19	1
2,6-Dinitrotoluene	<0.099		0.099	ug/L		09/18/26 09:57	09/22/26 09:19	1
2-Methylnaphthalene	<0.099		0.099	ug/L		09/18/26 09:57	09/22/26 09:19	1
4,4'-DDD	<0.099	^3+	0.099	ug/L		09/18/26 09:57	09/22/26 09:19	1
4,4'-DDE	<0.099		0.099	ug/L		09/18/26 09:57	09/22/26 09:19	1
4,4'-DDT	<0.099		0.099	ug/L		09/18/26 09:57	09/22/26 09:19	1
Acenaphthene	<0.099		0.099	ug/L		09/18/26 09:57	09/22/26 09:19	1
Acenaphthylene	<0.099		0.099	ug/L		09/18/26 09:57	09/22/26 09:19	1
Acetochlor	<0.099		0.099	ug/L		09/18/26 09:57	09/22/26 09:19	1
Alachlor	<0.050	^3+	0.050	ug/L		09/18/26 09:57	09/22/26 09:19	1
alpha-BHC	<0.099		0.099	ug/L		09/18/26 09:57	09/22/26 09:19	1
alpha-Chlordane	<0.050	^3+	0.050	ug/L		09/18/26 09:57	09/22/26 09:19	1
Anthracene	<0.020		0.020	ug/L		09/18/26 09:57	09/22/26 09:19	1
Atrazine	<0.050	^3+	0.050	ug/L		09/18/26 09:57	09/22/26 09:19	1
Benz(a)anthracene	<0.050		0.050	ug/L		09/18/26 09:57	09/22/26 09:19	1
Benzo[a]pyrene	<0.020		0.020	ug/L		09/18/26 09:57	09/22/26 09:19	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		09/18/26 09:57	09/22/26 09:19	1
Benzo[g,h,i]perylene	<0.050		0.050	ug/L		09/18/26 09:57	09/22/26 09:19	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		09/18/26 09:57	09/22/26 09:19	1
beta-BHC	<0.099	^3+	0.099	ug/L		09/18/26 09:57	09/22/26 09:19	1
Bis(2-ethylhexyl) phthalate	<0.60	^3+	0.60	ug/L		09/18/26 09:57	09/22/26 09:19	1
Bromacil	<0.099		0.099	ug/L		09/18/26 09:57	09/22/26 09:19	1
Butachlor	<0.050	^3+	0.050	ug/L		09/18/26 09:57	09/22/26 09:19	1
Butylbenzylphthalate	<0.50	^3+	0.50	ug/L		09/18/26 09:57	09/22/26 09:19	1
Chlorobenzilate	<0.099		0.099	ug/L		09/18/26 09:57	09/22/26 09:19	1
Chloroneb	<0.099		0.099	ug/L		09/18/26 09:57	09/22/26 09:19	1
Chlorothalonil (Draconil, Bravo)	<0.099		0.099	ug/L		09/18/26 09:57	09/22/26 09:19	1
Chlorpyrifos	<0.050		0.050	ug/L		09/18/26 09:57	09/22/26 09:19	1
Chrysene	<0.020	^3+	0.020	ug/L		09/18/26 09:57	09/22/26 09:19	1
delta-BHC	<0.099		0.099	ug/L		09/18/26 09:57	09/22/26 09:19	1
Di(2-ethylhexyl)adipate	<0.60	^3+	0.60	ug/L		09/18/26 09:57	09/22/26 09:19	1
Dibenz(a,h)anthracene	<0.050		0.050	ug/L		09/18/26 09:57	09/22/26 09:19	1
Diclorvos (DDVP)	<0.050		0.050	ug/L		09/18/26 09:57	09/22/26 09:19	1
Dieldrin	<0.0099		0.0099	ug/L		09/18/26 09:57	09/22/26 09:19	1
Diethylphthalate	<0.50	^3+	0.50	ug/L		09/18/26 09:57	09/22/26 09:19	1
Dimethylphthalate	<0.50	^3+	0.50	ug/L		09/18/26 09:57	09/22/26 09:19	1
Di-n-butyl phthalate	<0.99		0.99	ug/L		09/18/26 09:57	09/22/26 09:19	1
Di-n-octyl phthalate	<0.099		0.099	ug/L		09/18/26 09:57	09/22/26 09:19	1
Endosulfan I (Alpha)	<0.099		0.099	ug/L		09/18/26 09:57	09/22/26 09:19	1
Endosulfan II (Beta)	<0.099		0.099	ug/L		09/18/26 09:57	09/22/26 09:19	1
Endosulfan sulfate	<0.099		0.099	ug/L		09/18/26 09:57	09/22/26 09:19	1
Endrin	<0.0099		0.0099	ug/L		09/18/26 09:57	09/22/26 09:19	1
Endrin aldehyde	<0.099		0.099	ug/L		09/18/26 09:57	09/22/26 09:19	1
EPTC	<0.099		0.099	ug/L		09/18/26 09:57	09/22/26 09:19	1

Eurofins Pomona

QC Sample Results

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

Job ID: 380-236921-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MB 380-253345/21-A

Matrix: Water

Analysis Batch: 253894

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 253345

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.099		0.099	ug/L		09/18/26 09:57	09/22/26 09:19	1
Fluorene	<0.050		0.050	ug/L		09/18/26 09:57	09/22/26 09:19	1
gamma-Chlordane	<0.050		0.050	ug/L		09/18/26 09:57	09/22/26 09:19	1
Heptachlor	<0.0099	^3+	0.0099	ug/L		09/18/26 09:57	09/22/26 09:19	1
Heptachlor epoxide (isomer B)	<0.0099		0.0099	ug/L		09/18/26 09:57	09/22/26 09:19	1
Hexachlorobenzene	<0.050		0.050	ug/L		09/18/26 09:57	09/22/26 09:19	1
Hexachlorocyclopentadiene	<0.050		0.050	ug/L		09/18/26 09:57	09/22/26 09:19	1
Indeno[1,2,3-cd]pyrene	<0.050		0.050	ug/L		09/18/26 09:57	09/22/26 09:19	1
Isophorone	<0.099		0.099	ug/L		09/18/26 09:57	09/22/26 09:19	1
Lindane	<0.0099		0.0099	ug/L		09/18/26 09:57	09/22/26 09:19	1
Malathion	<0.099		0.099	ug/L		09/18/26 09:57	09/22/26 09:19	1
Methoxychlor	<0.050	^3+	0.050	ug/L		09/18/26 09:57	09/22/26 09:19	1
Metolachlor	<0.050		0.050	ug/L		09/18/26 09:57	09/22/26 09:19	1
Molinate	<0.099		0.099	ug/L		09/18/26 09:57	09/22/26 09:19	1
Naphthalene	<0.099		0.099	ug/L		09/18/26 09:57	09/22/26 09:19	1
Parathion	<0.099		0.099	ug/L		09/18/26 09:57	09/22/26 09:19	1
Pendimethalin (Penoxaline)	<0.099		0.099	ug/L		09/18/26 09:57	09/22/26 09:19	1
Phenanthrene	<0.040		0.040	ug/L		09/18/26 09:57	09/22/26 09:19	1
Propachlor	<0.050		0.050	ug/L		09/18/26 09:57	09/22/26 09:19	1
Pyrene	<0.050		0.050	ug/L		09/18/26 09:57	09/22/26 09:19	1
Simazine	<0.050		0.050	ug/L		09/18/26 09:57	09/22/26 09:19	1
Terbacil	<0.099		0.099	ug/L		09/18/26 09:57	09/22/26 09:19	1
Terbutylazine	<0.099	^3+	0.099	ug/L		09/18/26 09:57	09/22/26 09:19	1
Thiobencarb	<0.099		0.099	ug/L		09/18/26 09:57	09/22/26 09:19	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		09/18/26 09:57	09/22/26 09:19	1
trans-Nonachlor	<0.050		0.050	ug/L		09/18/26 09:57	09/22/26 09:19	1
Trifluralin	<0.099		0.099	ug/L		09/18/26 09:57	09/22/26 09:19	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Undecane	6.54	T J N	ug/L		3.15	1120-21-4	09/18/26 09:57	09/22/26 09:19	1
Cyclopentasiloxane, decamethyl-	0.823	T J N	ug/L		3.29	541-02-6	09/18/26 09:57	09/22/26 09:19	1
Cyclohexasiloxane, dodecamethyl-	0.627	T J N	ug/L		3.90	540-97-6	09/18/26 09:57	09/22/26 09:19	1
9-Octadecenamide, (Z)-	1.46	T J N	ug/L		7.90	301-02-0	09/18/26 09:57	09/22/26 09:19	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	98		70 - 130	09/18/26 09:57	09/22/26 09:19	1
Perylene-d12	93		70 - 130	09/18/26 09:57	09/22/26 09:19	1
Triphenylphosphate	99		70 - 130	09/18/26 09:57	09/22/26 09:19	1

Lab Sample ID: LCS 380-253345/23-A

Matrix: Water

Analysis Batch: 253894

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 253345

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1-Methylnaphthalene	1.98	2.05		ug/L		104	70 - 130
2,4'-DDD	1.98	2.24		ug/L		113	70 - 130
2,4'-DDE	1.98	2.24		ug/L		113	70 - 130
2,4'-DDT	1.98	2.28		ug/L		115	70 - 130

Eurofins Pomona

QC Sample Results

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

Job ID: 380-236921-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCS 380-253345/23-A

Matrix: Water

Analysis Batch: 253894

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 253345

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4-Dinitrotoluene	1.98	2.18		ug/L		110	70 - 130
2,6-Dinitrotoluene	1.98	2.18		ug/L		110	70 - 130
2-Methylnaphthalene	1.98	2.04		ug/L		103	70 - 130
4,4'-DDD	1.98	2.39		ug/L		121	70 - 130
4,4'-DDE	1.98	2.18		ug/L		110	70 - 130
4,4'-DDT	1.98	2.31		ug/L		117	70 - 130
Acenaphthene	1.98	2.07		ug/L		105	70 - 130
Acenaphthylene	1.98	1.93		ug/L		97	70 - 130
Acetochlor	1.98	2.22		ug/L		113	70 - 130
Alachlor	1.98	2.24		ug/L		113	70 - 130
alpha-BHC	1.98	2.21		ug/L		112	70 - 130
alpha-Chlordane	1.98	2.17		ug/L		110	70 - 130
Anthracene	1.98	2.04		ug/L		103	70 - 130
Atrazine	1.98	2.28		ug/L		115	70 - 130
Benz(a)anthracene	1.98	2.30		ug/L		116	70 - 130
Benzo[a]pyrene	1.98	2.20		ug/L		111	70 - 130
Benzo[b]fluoranthene	1.98	2.25		ug/L		114	70 - 130
Benzo[g,h,i]perylene	1.98	2.13		ug/L		108	70 - 130
Benzo[k]fluoranthene	1.98	2.22		ug/L		112	70 - 130
beta-BHC	1.98	2.28		ug/L		116	70 - 130
Bis(2-ethylhexyl) phthalate	1.98	2.27		ug/L		115	70 - 130
Bromacil	1.98	2.17		ug/L		110	70 - 130
Butachlor	1.98	2.30		ug/L		116	70 - 130
Butylbenzylphthalate	1.98	2.34		ug/L		119	70 - 130
Chlorobenzilate	1.98	2.20		ug/L		111	70 - 130
Chloroneb	1.98	2.18		ug/L		110	70 - 130
Chlorothalonil (Draconil, Bravo)	1.98	2.25		ug/L		114	70 - 130
Chlorpyrifos	1.98	2.26		ug/L		114	70 - 130
Chrysene	1.98	2.18		ug/L		110	70 - 130
delta-BHC	1.98	2.28		ug/L		115	70 - 130
Di(2-ethylhexyl)adipate	1.98	2.43		ug/L		123	70 - 130
Dibenz(a,h)anthracene	1.98	2.20		ug/L		112	70 - 130
Diclorvos (DDVP)	1.98	2.03		ug/L		103	70 - 130
Dieldrin	1.98	2.15		ug/L		109	70 - 130
Diethylphthalate	1.98	2.27		ug/L		115	70 - 130
Dimethylphthalate	1.98	2.16		ug/L		109	70 - 130
Di-n-butyl phthalate	3.95	4.71		ug/L		119	70 - 130
Di-n-octyl phthalate	1.98	2.25		ug/L		114	70 - 130
Endosulfan I (Alpha)	1.98	2.20		ug/L		111	70 - 130
Endosulfan II (Beta)	1.98	2.16		ug/L		109	70 - 130
Endosulfan sulfate	1.98	2.13		ug/L		108	70 - 130
Endrin	1.98	2.25		ug/L		114	70 - 130
Endrin aldehyde	1.98	2.20		ug/L		112	60 - 130
EPTC	1.98	2.03		ug/L		103	70 - 130
Fluoranthene	1.98	2.27		ug/L		115	70 - 130
Fluorene	1.98	2.14		ug/L		108	70 - 130
gamma-Chlordane	1.98	2.28		ug/L		115	70 - 130
Heptachlor	1.98	2.06		ug/L		104	70 - 130
Heptachlor epoxide (isomer B)	1.98	2.19		ug/L		111	70 - 130

Eurofins Pomona

QC Sample Results

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

Job ID: 380-236921-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCS 380-253345/23-A

Matrix: Water

Analysis Batch: 253894

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 253345

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Hexachlorobenzene	1.98	1.97		ug/L		100	70 - 130
Hexachlorocyclopentadiene	1.98	2.00		ug/L		101	70 - 130
Indeno[1,2,3-cd]pyrene	1.98	2.21		ug/L		112	70 - 130
Isophorone	1.98	1.97		ug/L		100	70 - 130
Lindane	1.98	2.22		ug/L		113	70 - 130
Malathion	1.98	2.23		ug/L		113	70 - 130
Methoxychlor	1.98	2.27		ug/L		115	70 - 130
Metolachlor	1.98	2.21		ug/L		112	70 - 130
Molinate	1.98	2.16		ug/L		109	70 - 130
Naphthalene	1.98	1.94		ug/L		98	70 - 130
Parathion	1.98	2.26		ug/L		114	70 - 130
Pendimethalin (Penoxaline)	1.98	2.25		ug/L		114	70 - 130
Phenanthrene	1.98	2.17		ug/L		110	70 - 130
Propachlor	1.98	2.24		ug/L		113	70 - 130
Pyrene	1.98	2.27		ug/L		115	70 - 130
Simazine	1.98	2.27		ug/L		115	70 - 130
Terbacil	1.98	2.18		ug/L		110	70 - 130
Terbutylazine	1.98	2.35		ug/L		119	70 - 130
Thiobencarb	1.98	2.27		ug/L		115	70 - 130
trans-Nonachlor	1.98	2.20		ug/L		111	70 - 130
Trifluralin	1.98	2.12		ug/L		107	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Nitro-m-xylene	95		70 - 130
Perylene-d12	98		70 - 130
Triphenylphosphate	109		70 - 130

Lab Sample ID: LCSD 380-253345/24-A

Matrix: Water

Analysis Batch: 253894

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 253345

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	1.99	2.23		ug/L		112	70 - 130	8	20
2,4'-DDD	1.99	2.36		ug/L		119	70 - 130	5	20
2,4'-DDE	1.99	2.34		ug/L		118	70 - 130	5	20
2,4'-DDT	1.99	2.39		ug/L		120	70 - 130	4	20
2,4-Dinitrotoluene	1.99	2.33		ug/L		117	70 - 130	7	20
2,6-Dinitrotoluene	1.99	2.32		ug/L		117	70 - 130	7	20
2-Methylnaphthalene	1.99	2.21		ug/L		111	70 - 130	8	20
4,4'-DDD	1.99	2.49		ug/L		125	70 - 130	4	20
4,4'-DDE	1.99	2.26		ug/L		114	70 - 130	4	20
4,4'-DDT	1.99	2.39		ug/L		120	70 - 130	4	20
Acenaphthene	1.99	2.24		ug/L		113	70 - 130	8	20
Acenaphthylene	1.99	2.03		ug/L		102	70 - 130	5	20
Acetochlor	1.99	2.34		ug/L		118	70 - 130	5	20
Alachlor	1.99	2.39		ug/L		120	70 - 130	6	20
alpha-BHC	1.99	2.35		ug/L		118	70 - 130	6	20
alpha-Chlordane	1.99	2.36		ug/L		119	70 - 130	9	20

Eurofins Pomona

QC Sample Results

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

Job ID: 380-236921-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCSD 380-253345/24-A

Matrix: Water

Analysis Batch: 253894

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 253345

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Anthracene	1.99	2.17		ug/L		109	70 - 130	6	20
Atrazine	1.99	2.35		ug/L		118	70 - 130	3	20
Benz(a)anthracene	1.99	2.37		ug/L		119	70 - 130	3	20
Benzo[a]pyrene	1.99	2.37		ug/L		119	70 - 130	7	20
Benzo[b]fluoranthene	1.99	2.37		ug/L		119	70 - 130	5	20
Benzo[g,h,i]perylene	1.99	2.42		ug/L		122	70 - 130	13	20
Benzo[k]fluoranthene	1.99	2.43		ug/L		122	70 - 130	9	20
beta-BHC	1.99	2.36		ug/L		118	70 - 130	3	20
Bis(2-ethylhexyl) phthalate	1.99	2.45		ug/L		123	70 - 130	8	20
Bromacil	1.99	2.22		ug/L		112	70 - 130	2	20
Butachlor	1.99	2.45		ug/L		123	70 - 130	6	20
Butylbenzylphthalate	1.99	2.43		ug/L		122	70 - 130	4	20
Chlorobenzilate	1.99	2.30		ug/L		116	70 - 130	5	20
Chloroneb	1.99	2.32		ug/L		117	70 - 130	6	20
Chlorothalonil (Draconil, Bravo)	1.99	2.32		ug/L		117	70 - 130	3	20
Chlorpyrifos	1.99	2.28		ug/L		115	70 - 130	1	20
Chrysene	1.99	2.37		ug/L		119	70 - 130	9	20
delta-BHC	1.99	2.40		ug/L		121	70 - 130	5	20
Di(2-ethylhexyl)adipate	1.99	2.45		ug/L		123	70 - 130	1	20
Dibenz(a,h)anthracene	1.99	2.33		ug/L		117	70 - 130	6	20
Diclorvos (DDVP)	1.99	2.11		ug/L		106	70 - 130	4	20
Dieldrin	1.99	2.33		ug/L		117	70 - 130	8	20
Diethylphthalate	1.99	2.42		ug/L		122	70 - 130	6	20
Dimethylphthalate	1.99	2.33		ug/L		117	70 - 130	8	20
Di-n-butyl phthalate	3.98	4.94		ug/L		124	70 - 130	5	20
Di-n-octyl phthalate	1.99	2.37		ug/L		119	70 - 130	5	20
Endosulfan I (Alpha)	1.99	2.40		ug/L		120	70 - 130	8	20
Endosulfan II (Beta)	1.99	2.39		ug/L		120	70 - 130	10	20
Endosulfan sulfate	1.99	2.23		ug/L		112	70 - 130	4	20
Endrin	1.99	2.39		ug/L		120	70 - 130	6	20
Endrin aldehyde	1.99	2.38		ug/L		120	60 - 130	8	20
EPTC	1.99	2.24		ug/L		113	70 - 130	10	20
Fluoranthene	1.99	2.37		ug/L		119	70 - 130	4	20
Fluorene	1.99	2.29		ug/L		115	70 - 130	7	20
gamma-Chlordane	1.99	2.51		ug/L		126	70 - 130	10	20
Heptachlor	1.99	2.23		ug/L		112	70 - 130	8	20
Heptachlor epoxide (isomer B)	1.99	2.33		ug/L		117	70 - 130	6	20
Hexachlorobenzene	1.99	2.15		ug/L		108	70 - 130	8	20
Hexachlorocyclopentadiene	1.99	2.14		ug/L		108	70 - 130	7	20
Indeno[1,2,3-cd]pyrene	1.99	2.38		ug/L		120	70 - 130	7	20
Isophorone	1.99	2.15		ug/L		108	70 - 130	9	20
Lindane	1.99	2.36		ug/L		119	70 - 130	6	20
Malathion	1.99	2.33		ug/L		117	70 - 130	4	20
Methoxychlor	1.99	2.45		ug/L		123	70 - 130	8	20
Metolachlor	1.99	2.39		ug/L		120	70 - 130	8	20
Molinate	1.99	2.31		ug/L		116	70 - 130	7	20
Naphthalene	1.99	2.11		ug/L		106	70 - 130	8	20
Parathion	1.99	2.32		ug/L		117	70 - 130	3	20
Pendimethalin (Penoxaline)	1.99	2.34		ug/L		118	70 - 130	4	20

Eurofins Pomona

QC Sample Results

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

Job ID: 380-236921-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCSD 380-253345/24-A

Matrix: Water

Analysis Batch: 253894

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 253345

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenanthrene	1.99	2.30		ug/L		116	70 - 130	6	20
Propachlor	1.99	2.39		ug/L		120	70 - 130	7	20
Pyrene	1.99	2.37		ug/L		119	70 - 130	5	20
Simazine	1.99	2.33		ug/L		117	70 - 130	2	20
Terbacil	1.99	2.22		ug/L		111	70 - 130	2	20
Terbutylazine	1.99	2.43		ug/L		122	70 - 130	4	20
Thiobencarb	1.99	2.32		ug/L		117	70 - 130	2	20
trans-Nonachlor	1.99	2.37		ug/L		119	70 - 130	8	20
Trifluralin	1.99	2.28		ug/L		115	70 - 130	7	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Nitro-m-xylene	96		70 - 130
Perylene-d12	99		70 - 130
Triphenylphosphate	104		70 - 130

Lab Sample ID: MRL 380-253345/22-A

Matrix: Water

Analysis Batch: 253894

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 253345

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	0.0987	0.120		ug/L		121	50 - 150
2,4'-DDD	0.0987	0.131		ug/L		133	50 - 150
2,4'-DDE	0.0987	0.147		ug/L		148	50 - 150
2,4'-DDT	0.0987	0.156	^3+	ug/L		158	50 - 150
2,4-Dinitrotoluene	0.0987	0.136		ug/L		138	50 - 150
2,6-Dinitrotoluene	0.0987	0.137		ug/L		139	50 - 150
2-Methylnaphthalene	0.0987	0.125		ug/L		126	50 - 150
4,4'-DDD	0.0987	0.157	^3+	ug/L		159	50 - 150
4,4'-DDE	0.0987	0.136		ug/L		138	50 - 150
4,4'-DDT	0.0987	0.147		ug/L		149	50 - 150
Acenaphthene	0.0987	0.125		ug/L		127	50 - 150
Acenaphthylene	0.0987	0.110		ug/L		111	50 - 150
Acetochlor	0.0987	0.146		ug/L		148	50 - 150
Alachlor	0.0494	0.0751	^3+	ug/L		152	50 - 150
alpha-BHC	0.0987	0.145		ug/L		147	50 - 150
alpha-Chlordane	0.0247	0.0375	J ^3+	ug/L		152	50 - 150
Anthracene	0.0197	0.0245		ug/L		124	50 - 150
Atrazine	0.0494	0.0807	^3+	ug/L		163	50 - 150
Benz(a)anthracene	0.0494	0.0692		ug/L		140	50 - 150
Benzo[a]pyrene	0.0197	0.0239		ug/L		121	50 - 150
Benzo[b]fluoranthene	0.0197	0.0296		ug/L		150	50 - 150
Benzo[g,h,i]perylene	0.0494	0.0625		ug/L		127	50 - 150
Benzo[k]fluoranthene	0.0197	0.0292		ug/L		148	50 - 150
beta-BHC	0.0987	0.150	^3+	ug/L		152	50 - 150
Bis(2-ethylhexyl) phthalate	0.592	0.976	^3+	ug/L		165	50 - 150
Bromacil	0.0987	0.145		ug/L		147	50 - 150
Butachlor	0.0494	0.0770	^3+	ug/L		156	50 - 150
Butylbenzylphthalate	0.494	0.821	^3+	ug/L		166	50 - 150

Eurofins Pomona

QC Sample Results

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

Job ID: 380-236921-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MRL 380-253345/22-A

Matrix: Water

Analysis Batch: 253894

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 253345

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chlorobenzilate	0.0987	0.136		ug/L		138	50 - 150
Chloroneb	0.0987	0.143		ug/L		145	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0987	0.143		ug/L		145	50 - 150
Chlorpyrifos	0.0494	0.0714		ug/L		145	50 - 150
Chrysene	0.0197	0.0332	^3+	ug/L		168	50 - 150
delta-BHC	0.0987	0.139		ug/L		140	50 - 150
Di(2-ethylhexyl)adipate	0.592	0.998	^3+	ug/L		169	50 - 150
Dibenz(a,h)anthracene	0.0494	0.0609		ug/L		123	50 - 150
Diclorvos (DDVP)	0.0494	0.0667		ug/L		135	50 - 150
Dieldrin	0.00987	0.00886	J	ug/L		90	50 - 150
Diethylphthalate	0.494	0.818	^3+	ug/L		166	50 - 150
Dimethylphthalate	0.494	0.750	^3+	ug/L		152	50 - 150
Di-n-butyl phthalate	0.494	0.803	J	ug/L		163	49 - 243
Di-n-octyl phthalate	0.0987	0.139		ug/L		141	50 - 150
Endosulfan I (Alpha)	0.0987	0.126		ug/L		128	50 - 150
Endosulfan II (Beta)	0.0987	0.120		ug/L		122	50 - 150
Endosulfan sulfate	0.0987	0.143		ug/L		145	50 - 150
Endrin	0.00987	0.0144		ug/L		146	50 - 150
Endrin aldehyde	0.0987	0.148		ug/L		150	50 - 150
EPTC	0.0987	0.125		ug/L		127	50 - 150
Fluoranthene	0.0987	0.137		ug/L		138	50 - 150
Fluorene	0.0494	0.0671		ug/L		136	50 - 150
gamma-Chlordane	0.0247	0.0355	J	ug/L		144	50 - 150
Heptachlor	0.00987	0.0152	^3+	ug/L		154	50 - 150
Heptachlor epoxide (isomer B)	0.00987	0.0131		ug/L		133	50 - 150
Hexachlorobenzene	0.0494	0.0609		ug/L		123	50 - 150
Hexachlorocyclopentadiene	0.0494	0.0626		ug/L		127	50 - 150
Indeno[1,2,3-cd]pyrene	0.0494	0.0615		ug/L		125	50 - 150
Isophorone	0.0987	0.119		ug/L		120	50 - 150
Lindane	0.00987	0.0124		ug/L		126	50 - 150
Malathion	0.0987	0.133		ug/L		135	50 - 150
Methoxychlor	0.0494	0.0778	^3+	ug/L		158	50 - 150
Metolachlor	0.0494	0.0729		ug/L		148	50 - 150
Molinate	0.0987	0.145		ug/L		147	50 - 150
Naphthalene	0.0987	0.141		ug/L		143	50 - 150
Parathion	0.0987	0.119		ug/L		121	50 - 150
Pendimethalin (Penoxaline)	0.0987	0.129		ug/L		131	50 - 150
Phenanthrene	0.0395	0.0549		ug/L		139	50 - 150
Propachlor	0.0494	0.0716		ug/L		145	50 - 150
Pyrene	0.0494	0.0684		ug/L		138	50 - 150
Simazine	0.0494	0.0732		ug/L		148	50 - 150
Terbacil	0.0987	0.140		ug/L		141	50 - 150
Terbutylazine	0.0987	0.153	^3+	ug/L		155	50 - 150
Thiobencarb	0.0987	0.145		ug/L		146	50 - 150
trans-Nonachlor	0.0247	0.0357	J	ug/L		145	50 - 150
Trifluralin	0.0987	0.133		ug/L		135	50 - 150

Eurofins Pomona

QC Sample Results

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

Job ID: 380-236921-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MRL 380-253345/22-A

Matrix: Water

Analysis Batch: 253894

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 253345

Surrogate	MRL %Recovery	MRL Qualifier	Limits
2-Nitro-m-xylene	96		70 - 130
Perylene-d12	92		70 - 130
Triphenylphosphate	101		70 - 130

Lab Sample ID: 380-236886-U-1-A MS

Matrix: Water

Analysis Batch: 253894

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 253345

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.098		1.94	2.18		ug/L		112	70 - 130
2,4'-DDD	<0.098		1.94	2.21		ug/L		114	70 - 130
2,4'-DDE	<0.098		1.94	2.21		ug/L		114	70 - 130
2,4'-DDT	<0.098	^3+	1.94	2.27		ug/L		117	70 - 130
2,4-Dinitrotoluene	<0.098		1.94	2.30		ug/L		118	70 - 130
2,6-Dinitrotoluene	<0.098		1.94	2.29		ug/L		118	70 - 130
2-Methylnaphthalene	<0.098		1.94	2.16		ug/L		111	70 - 130
4,4'-DDD	<0.098	^3+	1.94	2.36		ug/L		121	70 - 130
4,4'-DDE	<0.098		1.94	2.15		ug/L		111	70 - 130
4,4'-DDT	<0.098		1.94	2.25		ug/L		116	70 - 130
Acenaphthene	<0.098		1.94	2.21		ug/L		114	70 - 130
Acenaphthylene	<0.098		1.94	2.00		ug/L		103	70 - 130
Acetochlor	<0.098		1.94	2.25		ug/L		116	70 - 130
Alachlor	<0.049	^3+	1.94	2.26		ug/L		116	70 - 130
alpha-BHC	<0.098		1.94	2.31		ug/L		119	70 - 130
alpha-Chlordane	<0.049	^3+	1.94	2.24		ug/L		115	70 - 130
Anthracene	<0.020	F1	1.94	0.699	F1	ug/L		36	70 - 130
Atrazine	<0.049	^3+	1.94	2.32		ug/L		120	70 - 130
Benz(a)anthracene	<0.049		1.94	1.94		ug/L		100	70 - 130
Benzo[a]pyrene	<0.020		1.94	1.54		ug/L		79	70 - 130
Benzo[b]fluoranthene	<0.020		1.94	2.31		ug/L		119	70 - 130
Benzo[g,h,i]perylene	<0.049		1.94	2.28		ug/L		117	70 - 130
Benzo[k]fluoranthene	<0.020		1.94	2.25		ug/L		116	70 - 130
beta-BHC	<0.098	^3+	1.94	2.35		ug/L		121	70 - 130
Bis(2-ethylhexyl) phthalate	<0.59	^3+	1.94	2.33		ug/L		120	70 - 130
Bromacil	<0.098		1.94	2.12		ug/L		109	70 - 130
Butachlor	<0.049	^3+	1.94	2.29		ug/L		118	70 - 130
Butylbenzylphthalate	<0.49	^3+	1.94	2.32		ug/L		120	70 - 130
Chlorobenzilate	<0.098		1.94	2.20		ug/L		113	70 - 130
Chloroneb	<0.098		1.94	2.30		ug/L		118	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.098		1.94	2.23		ug/L		115	70 - 130
Chlorpyrifos	<0.049		1.94	2.28		ug/L		117	70 - 130
Chrysene	<0.020	^3+	1.94	2.24		ug/L		115	70 - 130
delta-BHC	<0.098		1.94	2.25		ug/L		116	70 - 130
Di(2-ethylhexyl)adipate	<0.59	^3+	1.94	2.32		ug/L		119	70 - 130
Dibenz(a,h)anthracene	<0.049		1.94	2.26		ug/L		116	70 - 130
Diclorvos (DDVP)	<0.049		1.94	2.12		ug/L		109	70 - 130
Dieldrin	<0.0098		1.94	2.18		ug/L		112	70 - 130
Diethylphthalate	<0.49	^3+	1.94	2.38		ug/L		122	70 - 130

Eurofins Pomona

QC Sample Results

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

Job ID: 380-236921-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: 380-236886-U-1-A MS

Matrix: Water

Analysis Batch: 253894

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 253345

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Dimethylphthalate	<0.49	^3+	1.94	2.29		ug/L		118	70 - 130
Di-n-butyl phthalate	<0.98		3.89	4.52		ug/L		116	70 - 130
Di-n-octyl phthalate	<0.098		1.94	2.25		ug/L		116	70 - 130
Endosulfan I (Alpha)	<0.098		1.94	2.21		ug/L		114	70 - 130
Endosulfan II (Beta)	<0.098		1.94	2.18		ug/L		112	70 - 130
Endosulfan sulfate	<0.098		1.94	2.13		ug/L		110	70 - 130
Endrin	<0.0098		1.94	2.26		ug/L		117	70 - 130
Endrin aldehyde	<0.098		1.94	1.92		ug/L		99	60 - 130
EPTC	<0.098		1.94	2.19		ug/L		113	70 - 130
Fluoranthene	<0.098		1.94	2.26		ug/L		116	70 - 130
Fluorene	<0.049		1.94	2.26		ug/L		117	70 - 130
gamma-Chlordane	<0.049		1.94	2.34		ug/L		120	70 - 130
Heptachlor	<0.0098	^3+	1.94	2.18		ug/L		112	70 - 130
Heptachlor epoxide (isomer B)	<0.0098		1.94	2.22		ug/L		114	70 - 130
Hexachlorobenzene	<0.049		1.94	2.15		ug/L		111	70 - 130
Hexachlorocyclopentadiene	<0.049		1.94	2.17		ug/L		112	70 - 130
Indeno[1,2,3-cd]pyrene	<0.049		1.94	2.30		ug/L		118	70 - 130
Isophorone	<0.098		1.94	2.11		ug/L		109	70 - 130
Lindane	<0.0098		1.94	2.34		ug/L		120	70 - 130
Malathion	<0.098		1.94	2.26		ug/L		116	70 - 130
Methoxychlor	<0.049	^3+	1.94	2.34		ug/L		120	70 - 130
Metolachlor	<0.049		1.94	2.27		ug/L		117	70 - 130
Molinate	<0.098		1.94	2.27		ug/L		117	70 - 130
Naphthalene	<0.098		1.94	2.09		ug/L		108	70 - 130
Parathion	<0.098		1.94	2.24		ug/L		115	70 - 130
Pendimethalin (Penoxaline)	<0.098		1.94	2.23		ug/L		115	70 - 130
Phenanthrene	<0.039		1.94	2.24		ug/L		115	70 - 130
Propachlor	<0.049		1.94	2.35		ug/L		121	70 - 130
Pyrene	<0.049		1.94	2.21		ug/L		114	70 - 130
Simazine	<0.049		1.94	2.27		ug/L		117	70 - 130
Terbacil	<0.098		1.94	2.19		ug/L		113	70 - 130
Terbutylazine	<0.098	^3+	1.94	2.41		ug/L		124	70 - 130
Thiobencarb	<0.098		1.94	2.24		ug/L		115	70 - 130
trans-Nonachlor	<0.049		1.94	2.26		ug/L		116	70 - 130
Trifluralin	<0.098		1.94	2.28		ug/L		117	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Nitro-m-xylene	96		70 - 130
Perylene-d12	96		70 - 130
Triphenylphosphate	101		70 - 130

Lab Sample ID: 380-237040-T-1-A DU

Matrix: Water

Analysis Batch: 253894

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 253345

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
1-Methylnaphthalene	<0.099		<0.097		ug/L		NC	20
2,4'-DDD	<0.099		<0.097		ug/L		NC	20

Eurofins Pomona

QC Sample Results

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

Job ID: 380-236921-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: 380-237040-T-1-A DU

Matrix: Water

Analysis Batch: 253894

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 253345

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
2,4'-DDE	<0.099		<0.097		ug/L		NC	20
2,4'-DDT	<0.099	^3+	<0.097		ug/L		NC	20
2,4-Dinitrotoluene	<0.099		<0.097		ug/L		NC	20
2,6-Dinitrotoluene	<0.099		<0.097		ug/L		NC	20
2-Methylnaphthalene	<0.099		<0.097		ug/L		NC	20
4,4'-DDD	<0.099	^3+	<0.097		ug/L		NC	20
4,4'-DDE	<0.099		<0.097		ug/L		NC	20
4,4'-DDT	<0.099		<0.097		ug/L		NC	20
Acenaphthene	<0.099		<0.097		ug/L		NC	20
Acenaphthylene	<0.099		<0.097		ug/L		NC	20
Acetochlor	<0.099		<0.097		ug/L		NC	20
Alachlor	<0.049	^3+	<0.049		ug/L		NC	20
alpha-BHC	<0.099		<0.097		ug/L		NC	20
alpha-Chlordane	<0.049	^3+	<0.049		ug/L		NC	20
Anthracene	<0.020		<0.019		ug/L		NC	20
Atrazine	<0.049	^3+	<0.049		ug/L		NC	20
Benz(a)anthracene	<0.049		<0.049		ug/L		NC	20
Benzo[a]pyrene	<0.020		<0.019		ug/L		NC	20
Benzo[b]fluoranthene	<0.020		<0.019		ug/L		NC	20
Benzo[g,h,i]perylene	<0.049		<0.049		ug/L		NC	20
Benzo[k]fluoranthene	<0.020		<0.019		ug/L		NC	20
beta-BHC	<0.099	^3+	<0.097		ug/L		NC	20
Bis(2-ethylhexyl) phthalate	<0.59	^3+	<0.58		ug/L		NC	20
Bromacil	<0.099		<0.097		ug/L		NC	20
Butachlor	<0.049	^3+	<0.049		ug/L		NC	20
Butylbenzylphthalate	<0.49	^3+	<0.49		ug/L		NC	20
Chlorobenzilate	<0.099		<0.097		ug/L		NC	20
Chloroneb	<0.099		<0.097		ug/L		NC	20
Chlorothalonil (Draconil, Bravo)	<0.099		<0.097		ug/L		NC	20
Chlorpyrifos	<0.049		<0.049		ug/L		NC	20
Chrysene	<0.020	^3+	<0.019		ug/L		NC	20
delta-BHC	<0.099		<0.097		ug/L		NC	20
Di(2-ethylhexyl)adipate	<0.59	^3+	<0.58		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	<0.0099		<0.0097		ug/L		NC	20
Diethylphthalate	<0.49	^3+	<0.49		ug/L		NC	20
Dimethylphthalate	<0.49	^3+	<0.49		ug/L		NC	20
Di-n-butyl phthalate	<0.99		<0.97		ug/L		NC	20
Di-n-octyl phthalate	<0.099		<0.097		ug/L		NC	20
Endosulfan I (Alpha)	<0.099		<0.097		ug/L		NC	20
Endosulfan II (Beta)	<0.099		<0.097		ug/L		NC	20
Endosulfan sulfate	<0.099		<0.097		ug/L		NC	20
Endrin	<0.0099		<0.0097		ug/L		NC	20
Endrin aldehyde	<0.099		<0.097		ug/L		NC	20
EPTC	<0.099		<0.097		ug/L		NC	20
Fluoranthene	<0.099		<0.097		ug/L		NC	20
Fluorene	<0.049		<0.049		ug/L		NC	20
gamma-Chlordane	<0.049		<0.049		ug/L		NC	20

Eurofins Pomona

QC Sample Results

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

Job ID: 380-236921-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: 380-237040-T-1-A DU

Matrix: Water

Analysis Batch: 253894

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 253345

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Heptachlor	<0.0099	^3+	<0.0097		ug/L		NC	20
Heptachlor epoxide (isomer B)	<0.0099		<0.0097		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	<0.099		<0.097		ug/L		NC	20
Lindane	<0.0099		<0.0097		ug/L		NC	20
Malathion	<0.099		<0.097		ug/L		NC	20
Methoxychlor	<0.049	^3+	<0.049		ug/L		NC	20
Metolachlor	<0.049		<0.049		ug/L		NC	20
Molinate	<0.099		<0.097		ug/L		NC	20
Naphthalene	<0.099		<0.097		ug/L		NC	20
Parathion	<0.099		<0.097		ug/L		NC	20
Pendimethalin (Penoxaline)	<0.099		<0.097		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	<0.099		<0.097		ug/L		NC	20
Terbutylazine	<0.099	^3+	<0.097		ug/L		NC	20
Thiobencarb	<0.099		<0.097		ug/L		NC	20
Total Permethrin (mixed isomers)	<0.20		<0.19		ug/L		NC	20
trans-Nonachlor	<0.049		<0.049		ug/L		NC	20
Trifluralin	<0.099		<0.097		ug/L		NC	20

Surrogate	%Recovery	DU Qualifier	Limits
2-Nitro-m-xylene	96		70 - 130
Perylene-d12	91		70 - 130
Triphenylphosphate	102		70 - 130

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

Lab Sample ID: MB 570-802543/1-A

Matrix: Water

Analysis Batch: 806430

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 802543

Tentatively Identified Compound	Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	09/19/26 08:06	09/27/26 16:06	1

Surrogate	%Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	82		33 - 139	09/19/26 08:06	09/27/26 16:06	1
2-Fluorobiphenyl (Surr)	91		33 - 126	09/19/26 08:06	09/27/26 16:06	1
2-Fluorophenol (Surr)	54		12 - 120	09/19/26 08:06	09/27/26 16:06	1
Nitrobenzene-d5 (Surr)	86		36 - 120	09/19/26 08:06	09/27/26 16:06	1
Phenol-d6 (Surr)	19		10 - 120	09/19/26 08:06	09/27/26 16:06	1
p-Terphenyl-d14 (Surr)	104		47 - 131	09/19/26 08:06	09/27/26 16:06	1

Eurofins Pomona

QC Sample Results

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

Job ID: 380-236921-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MB 570-802543/1-A

Matrix: Water

Analysis Batch: 805637

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 802543

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.20		0.20	ug/L		09/19/26 08:06	09/25/26 08:02	1
2-Methylnaphthalene	<0.20		0.20	ug/L		09/19/26 08:06	09/25/26 08:02	1
Acenaphthene	<0.20		0.20	ug/L		09/19/26 08:06	09/25/26 08:02	1
Acenaphthylene	<0.20		0.20	ug/L		09/19/26 08:06	09/25/26 08:02	1
Anthracene	<0.20		0.20	ug/L		09/19/26 08:06	09/25/26 08:02	1
Benzo[a]anthracene	<0.20		0.20	ug/L		09/19/26 08:06	09/25/26 08:02	1
Benzo[a]pyrene	<0.20		0.20	ug/L		09/19/26 08:06	09/25/26 08:02	1
Benzo[b]fluoranthene	<0.20		0.20	ug/L		09/19/26 08:06	09/25/26 08:02	1
Benzo[g,h,i]perylene	<0.20		0.20	ug/L		09/19/26 08:06	09/25/26 08:02	1
Benzo[k]fluoranthene	<0.20		0.20	ug/L		09/19/26 08:06	09/25/26 08:02	1
Chrysene	<0.20		0.20	ug/L		09/19/26 08:06	09/25/26 08:02	1
Dibenz(a,h)anthracene	<0.20		0.20	ug/L		09/19/26 08:06	09/25/26 08:02	1
Fluoranthene	<0.20		0.20	ug/L		09/19/26 08:06	09/25/26 08:02	1
Fluorene	<0.20		0.20	ug/L		09/19/26 08:06	09/25/26 08:02	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20	ug/L		09/19/26 08:06	09/25/26 08:02	1
Naphthalene	<0.20		0.20	ug/L		09/19/26 08:06	09/25/26 08:02	1
Phenanthrene	<0.20		0.20	ug/L		09/19/26 08:06	09/25/26 08:02	1
Pyrene	<0.20		0.20	ug/L		09/19/26 08:06	09/25/26 08:02	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	95		28 - 127	09/19/26 08:06	09/25/26 08:02	1
2-Fluorobiphenyl (Surr)	79		31 - 120	09/19/26 08:06	09/25/26 08:02	1
2-Fluorophenol (Surr)	49		17 - 120	09/19/26 08:06	09/25/26 08:02	1
Nitrobenzene-d5 (Surr)	83		27 - 120	09/19/26 08:06	09/25/26 08:02	1
Phenol-d6 (Surr)	30		10 - 120	09/19/26 08:06	09/25/26 08:02	1
p-Terphenyl-d14 (Surr)	79		45 - 120	09/19/26 08:06	09/25/26 08:02	1

Lab Sample ID: LCS 570-802543/2-A

Matrix: Water

Analysis Batch: 805637

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 802543

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	20.0	13.9		ug/L		70	47 - 120
2-Methylnaphthalene	20.0	14.0		ug/L		70	43 - 120
Acenaphthene	20.0	14.9		ug/L		75	60 - 132
Acenaphthylene	20.0	15.0		ug/L		75	54 - 126
Anthracene	20.0	15.5		ug/L		77	43 - 120
Benzo[a]anthracene	20.0	16.4		ug/L		82	42 - 133
Benzo[a]pyrene	20.0	16.8		ug/L		84	32 - 148
Benzo[b]fluoranthene	20.0	16.6		ug/L		83	42 - 140
Benzo[g,h,i]perylene	20.0	15.9		ug/L		79	1 - 195
Benzo[k]fluoranthene	20.0	16.3		ug/L		82	25 - 146
Chrysene	20.0	15.9		ug/L		79	44 - 140
Dibenz(a,h)anthracene	20.0	16.2		ug/L		81	1 - 200
Fluoranthene	20.0	16.2		ug/L		81	43 - 121
Fluorene	20.0	15.4		ug/L		77	70 - 120
Indeno[1,2,3-cd]pyrene	20.0	15.9		ug/L		80	1 - 151
Naphthalene	20.0	13.4		ug/L		67	36 - 120

Eurofins Pomona

QC Sample Results

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

Job ID: 380-236921-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCS 570-802543/2-A

Matrix: Water

Analysis Batch: 805637

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 802543

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phenanthrene	20.0	16.1		ug/L		80	65 - 120
Pyrene	20.0	17.7		ug/L		89	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	78		28 - 127
2-Fluorobiphenyl (Surr)	76		31 - 120
2-Fluorophenol (Surr)	51		17 - 120
Nitrobenzene-d5 (Surr)	72		27 - 120
Phenol-d6 (Surr)	35		10 - 120
p-Terphenyl-d14 (Surr)	83		45 - 120

Lab Sample ID: LCSD 570-802543/3-A

Matrix: Water

Analysis Batch: 805637

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 802543

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	20.0	15.7		ug/L		78	47 - 120	12	20
2-Methylnaphthalene	20.0	15.9		ug/L		80	43 - 120	13	20
Acenaphthene	20.0	16.9		ug/L		85	60 - 132	12	29
Acenaphthylene	20.0	17.0		ug/L		85	54 - 126	12	45
Anthracene	20.0	17.5		ug/L		87	43 - 120	12	40
Benzo[a]anthracene	20.0	18.6		ug/L		93	42 - 133	13	32
Benzo[a]pyrene	20.0	19.1		ug/L		96	32 - 148	13	43
Benzo[b]fluoranthene	20.0	18.7		ug/L		93	42 - 140	12	43
Benzo[g,h,i]perylene	20.0	17.8		ug/L		89	1 - 195	11	61
Benzo[k]fluoranthene	20.0	18.1		ug/L		90	25 - 146	10	38
Chrysene	20.0	18.0		ug/L		90	44 - 140	12	53
Dibenz(a,h)anthracene	20.0	17.8		ug/L		89	1 - 200	10	75
Fluoranthene	20.0	18.0		ug/L		90	43 - 121	11	40
Fluorene	20.0	17.3		ug/L		86	70 - 120	11	23
Indeno[1,2,3-cd]pyrene	20.0	17.8		ug/L		89	1 - 151	11	60
Naphthalene	20.0	15.4		ug/L		77	36 - 120	14	39
Phenanthrene	20.0	18.1		ug/L		90	65 - 120	12	24
Pyrene	20.0	20.0		ug/L		100	70 - 120	12	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	89		28 - 127
2-Fluorobiphenyl (Surr)	87		31 - 120
2-Fluorophenol (Surr)	66		17 - 120
Nitrobenzene-d5 (Surr)	85		27 - 120
Phenol-d6 (Surr)	44		10 - 120
p-Terphenyl-d14 (Surr)	95		45 - 120

QC Sample Results

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

Job ID: 380-236921-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: 380-236599-A-1-D MS

Matrix: Water

Analysis Batch: 806409

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 802543

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.19		19.1	12.3		ug/L		65	36 - 120
2-Methylnaphthalene	<0.19		19.1	12.5		ug/L		65	32 - 124
Acenaphthene	<0.19		19.1	15.7		ug/L		82	47 - 145
Acenaphthylene	<0.19		19.1	16.0		ug/L		84	33 - 145
Anthracene	<0.19		19.1	16.4		ug/L		86	27 - 133
Benzo[a]anthracene	<0.19		19.1	17.8		ug/L		93	33 - 143
Benzo[a]pyrene	<0.19		19.1	16.8		ug/L		88	17 - 163
Benzo[b]fluoranthene	<0.19		19.1	16.5		ug/L		86	24 - 159
Benzo[g,h,i]perylene	<0.19		19.1	16.0		ug/L		84	1 - 219
Benzo[k]fluoranthene	<0.19		19.1	17.4		ug/L		91	11 - 162
Chrysene	<0.19		19.1	16.9		ug/L		88	17 - 168
Dibenz(a,h)anthracene	<0.19		19.1	16.0		ug/L		84	1 - 227
Fluoranthene	<0.19		19.1	17.4		ug/L		91	26 - 137
Fluorene	<0.19		19.1	16.5		ug/L		86	59 - 121
Indeno[1,2,3-cd]pyrene	<0.19		19.1	15.7		ug/L		82	1 - 171
Naphthalene	<0.19		19.1	11.3		ug/L		59	21 - 133
Phenanthrene	<0.19		19.1	15.6		ug/L		82	54 - 120
Pyrene	<0.19		19.1	17.6		ug/L		92	52 - 120

Surrogate	MS %Recovery	MS Qualifier	MS Limits
2,4,6-Tribromophenol (Surr)	85		28 - 127
2-Fluorobiphenyl (Surr)	81		31 - 120
2-Fluorophenol (Surr)	53		17 - 120
Nitrobenzene-d5 (Surr)	66		27 - 120
Phenol-d6 (Surr)	38		10 - 120
p-Terphenyl-d14 (Surr)	89		45 - 120

Lab Sample ID: 380-236599-A-1-E MSD

Matrix: Water

Analysis Batch: 806409

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 802543

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	<0.19		19.3	11.6		ug/L		60	36 - 120	7	30
2-Methylnaphthalene	<0.19		19.3	11.8		ug/L		61	32 - 124	6	30
Acenaphthene	<0.19		19.3	14.0		ug/L		72	47 - 145	11	48
Acenaphthylene	<0.19		19.3	14.5		ug/L		75	33 - 145	10	74
Anthracene	<0.19		19.3	14.8		ug/L		76	27 - 133	10	66
Benzo[a]anthracene	<0.19		19.3	15.8		ug/L		82	33 - 143	12	53
Benzo[a]pyrene	<0.19		19.3	14.8		ug/L		77	17 - 163	12	72
Benzo[b]fluoranthene	<0.19		19.3	14.1		ug/L		73	24 - 159	16	71
Benzo[g,h,i]perylene	<0.19		19.3	14.2		ug/L		73	1 - 219	12	97
Benzo[k]fluoranthene	<0.19		19.3	15.8		ug/L		82	11 - 162	10	63
Chrysene	<0.19		19.3	14.8		ug/L		76	17 - 168	13	87
Dibenz(a,h)anthracene	<0.19		19.3	14.2		ug/L		73	1 - 227	12	126
Fluoranthene	<0.19		19.3	15.6		ug/L		81	26 - 137	10	66
Fluorene	<0.19		19.3	14.9		ug/L		77	59 - 121	10	38
Indeno[1,2,3-cd]pyrene	<0.19		19.3	13.9		ug/L		72	1 - 171	12	99
Naphthalene	<0.19		19.3	10.5		ug/L		54	21 - 133	7	65

Eurofins Pomona

QC Sample Results

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

Job ID: 380-236921-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: 380-236599-A-1-E MSD

Matrix: Water

Analysis Batch: 806409

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 802543

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenanthrene	<0.19		19.3	14.0		ug/L		72	54 - 120	11	39
Pyrene	<0.19		19.3	15.7		ug/L		81	52 - 120	11	49

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	76		28 - 127
2-Fluorobiphenyl (Surr)	73		31 - 120
2-Fluorophenol (Surr)	46		17 - 120
Nitrobenzene-d5 (Surr)	61		27 - 120
Phenol-d6 (Surr)	32		10 - 120
p-Terphenyl-d14 (Surr)	78		45 - 120

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

Lab Sample ID: MB 570-803805/6

Matrix: Water

Analysis Batch: 803805

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	<10		10	ug/L			09/22/26 12:57	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		38 - 134		09/22/26 12:57	1

Lab Sample ID: LCS 570-803805/3

Matrix: Water

Analysis Batch: 803805

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	376		ug/L		94	78 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	89		38 - 134

Lab Sample ID: LCSD 570-803805/4

Matrix: Water

Analysis Batch: 803805

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	368		ug/L		92	78 - 120	2	10

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

QC Sample Results

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

Job ID: 380-236921-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MRL 570-803805/5

Matrix: Water

Analysis Batch: 803805

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (C4-C13)			10.0	11.4		ug/L		114	50 - 150		
Surrogate	MRL %Recovery	MRL Qualifier	Limits								
4-Bromofluorobenzene (Surr)	83		38 - 134								

Lab Sample ID: 380-236599-C-1 MS

Matrix: Water

Analysis Batch: 803805

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	361		ug/L	-	90	68 - 122
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	94		38 - 134						

Lab Sample ID: 380-236599-C-1 MSD

Matrix: Water

Analysis Batch: 803805

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

<u>Analyte</u>	<u>Sample Result</u>	<u>Sample Qualifier</u>	<u>Spike Added</u>	<u>MSD Result</u>	<u>MSD Qualifier</u>	<u>Unit</u>	<u>D</u>	<u>%Rec</u>	<u>%Rec Limits</u>	<u>RPD</u>	<u>RPD Limit</u>
Gasoline Range Organics (C4-C13)	<10		400	335		ug/L		84	68 - 122	7	18
<u>Surrogate</u>	<u>%Recovery</u>	<u>MSD Qualifier</u>	<u>Limits</u>								
4-Bromofluorobenzene (Surr)	97		38 - 134								

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

Lab Sample ID: MB 570-801871/1-A

Matrix: Water

Analysis Batch: 802726

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 801871

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Diesel Range Organics (C10-C24)	<25		25	ug/L		09/17/26 21:12	09/20/26 00:20	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		09/17/26 21:12	09/20/26 00:20	1
C8-C18	<25		25	ug/L		09/17/26 21:12	09/20/26 00:20	1
Surrogate	MB	MB	Limits			Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier						
n-Octacosane (Surr)	106		60 - 130			09/17/26 21:12	09/20/26 00:20	1

Lab Sample ID: LCS 570-801871/2-A

Matrix: Water

Analysis Batch: 802726

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 801871

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
C10-C28	1600	1340		ug/L		84	56 - 127

Eurofins Pomona

QC Sample Results

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

Job ID: 380-236921-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCS 570-801871/2-A

Matrix: Water

Analysis Batch: 802726

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 801871

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

Lab Sample ID: LCSD 570-801871/3-A

Matrix: Water

Analysis Batch: 802726

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 801871

			Spike	LCSD	LCSD				%Rec	RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
C10-C28			1600	1260		ug/L		79	56 - 127	6	23
			LCSD	LCSD							
Surrogate	%Recovery	Qualifier	Limits								
n-Octacosane (Surr)	100		60 - 130								

Lab Sample ID: MRL 570-801871/4-A

Matrix: Water

Analysis Batch: 802726

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 801871

			Spike	MRL	MRL				%Rec		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
C10-C28			0.0200	0.0242	J	mg/L		121	50 - 150		
			MRL	MRL							
Surrogate		%Recovery	Qualifier	Limits							
n-Octacosane (Surr)		124		60 - 130							

Lab Sample ID: 380-236599-B-1-A MS

Matrix: Water

Analysis Batch: 802726

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 801871

	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
C10-C28	<26		1670	1520		ug/L		91	70 - 130		
Surrogate	MS	MS									
	%Recovery	Qualifier	Limits								
n-Octacosane (Surr)	116		60 - 130								

Lab Sample ID: 380-236599-B-1-B MSD

Matrix: Water

Analysis Batch: 802726

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 801871

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
C10-C28	<26		1650	1360		ug/L		82	70 - 130	11	20
Surrogate	MSD	MSD									
	%Recovery	Qualifier	Limits								
n-Octacosane (Surr)	104		60 - 130								

QC Association Summary

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

Job ID: 380-236921-1
SDG: Weekly: Halawa Shaft Viewing Pool

GC/MS Semi VOA

Prep Batch: 253345

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-236921-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	525.2	
MB 380-253345/21-A	Method Blank	Total/NA	Water	525.2	
LCS 380-253345/23-A	Lab Control Sample	Total/NA	Water	525.2	
LCSD 380-253345/24-A	Lab Control Sample Dup	Total/NA	Water	525.2	
MRL 380-253345/22-A	Lab Control Sample	Total/NA	Water	525.2	
380-236886-U-1-A MS	Matrix Spike	Total/NA	Water	525.2	
380-237040-T-1-A DU	Duplicate	Total/NA	Water	525.2	

Analysis Batch: 253894

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-236921-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	525.2	253345
MB 380-253345/21-A	Method Blank	Total/NA	Water	525.2	253345
LCS 380-253345/23-A	Lab Control Sample	Total/NA	Water	525.2	253345
LCSD 380-253345/24-A	Lab Control Sample Dup	Total/NA	Water	525.2	253345
MRL 380-253345/22-A	Lab Control Sample	Total/NA	Water	525.2	253345
380-236886-U-1-A MS	Matrix Spike	Total/NA	Water	525.2	253345
380-237040-T-1-A DU	Duplicate	Total/NA	Water	525.2	253345

Prep Batch: 802543

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-236921-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	625.1	
MB 570-802543/1-A	Method Blank	Total/NA	Water	625.1	
LCS 570-802543/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 570-802543/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	
380-236599-A-1-D MS	Matrix Spike	Total/NA	Water	625.1	
380-236599-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Water	625.1	

Analysis Batch: 805637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-802543/1-A	Method Blank	Total/NA	Water	625.1 SIM	802543
LCS 570-802543/2-A	Lab Control Sample	Total/NA	Water	625.1 SIM	802543
LCSD 570-802543/3-A	Lab Control Sample Dup	Total/NA	Water	625.1 SIM	802543

Analysis Batch: 806409

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-236921-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	625.1 SIM	802543
380-236599-A-1-D MS	Matrix Spike	Total/NA	Water	625.1 SIM	802543
380-236599-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Water	625.1 SIM	802543

Analysis Batch: 806430

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-236921-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	625.1	802543
MB 570-802543/1-A	Method Blank	Total/NA	Water	625.1	802543

GC VOA

Analysis Batch: 803805

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-236921-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	8015B GRO LL	
380-236921-2	TB: HALAWA SHAFT VIEWING POOL	Total/NA	Water	8015B GRO LL	
MB 570-803805/6	Method Blank	Total/NA	Water	8015B GRO LL	

Eurofins Pomona

QC Association Summary

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

Job ID: 380-236921-1
SDG: Weekly: Halawa Shaft Viewing Pool

GC VOA (Continued)

Analysis Batch: 803805 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 570-803805/3	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-803805/4	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	
MRL 570-803805/5	Lab Control Sample	Total/NA	Water	8015B GRO LL	
380-236599-C-1 MS	Matrix Spike	Total/NA	Water	8015B GRO LL	
380-236599-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8015B GRO LL	

GC Semi VOA

Prep Batch: 801871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-236921-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	3510C	
MB 570-801871/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-801871/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-801871/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-801871/4-A	Lab Control Sample	Total/NA	Water	3510C	
380-236599-B-1-A MS	Matrix Spike	Total/NA	Water	3510C	
380-236599-B-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

Analysis Batch: 802726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-236921-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	8015B	801871
MB 570-801871/1-A	Method Blank	Total/NA	Water	8015B	801871
LCS 570-801871/2-A	Lab Control Sample	Total/NA	Water	8015B	801871
LCSD 570-801871/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	801871
MRL 570-801871/4-A	Lab Control Sample	Total/NA	Water	8015B	801871
380-236599-B-1-A MS	Matrix Spike	Total/NA	Water	8015B	801871
380-236599-B-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	8015B	801871

Lab Chronicle

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

Job ID: 380-236921-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: HALAWA SHAFT VIEWING POOL

Lab Sample ID: 380-236921-1

Date Collected: 09/15/26 09:30

Matrix: Water

Date Received: 09/17/26 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			253345	L9UA	EA POM	09/18/26 09:57
Total/NA	Analysis	525.2		1	253894	Q8LA	EA POM	09/22/26 12:00
Total/NA	Prep	625.1			802543	KLZQ	EET CAL 4	09/19/26 08:06
Total/NA	Analysis	625.1		1	806430	S4EA	EET CAL 4	09/27/26 18:56
Total/NA	Prep	625.1			802543	KLZQ	EET CAL 4	09/19/26 08:06
Total/NA	Analysis	625.1 SIM		1	806409	S4EA	EET CAL 4	09/27/26 17:25
Total/NA	Analysis	8015B GRO LL		1	803805	A9VE	EET CAL 4	09/22/26 19:11
Total/NA	Prep	3510C			801871	ATRL	EET CAL 4	09/17/26 21:12
Total/NA	Analysis	8015B		1	802726	H6FE	EET CAL 4	09/20/26 04:17

Client Sample ID: TB: HALAWA SHAFT VIEWING POOL

Lab Sample ID: 380-236921-2

Date Collected: 09/15/26 09:30

Matrix: Water

Date Received: 09/17/26 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	803805	A9VE	EET CAL 4	09/22/26 16:19

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: 380-236921-1
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	01-31-27
The following analytes are included in this report, but the laboratory is not certified by Hawaii State CA00006. 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	03-02-27
Arizona	State	AZ0830	11-16-26
California	Los Angeles County Sanitation Districts	9257304	07-31-28
California	SCAQMD LAP	17LA0919	11-30-26

Eurofins Pomona

Accreditation/Certification Summary

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

Job ID: 380-236921-1
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	07-31-28
Kansas	NELAP	E-10420	07-31-27
Nevada	State	CA00111	07-31-27
Oregon	NELAP	4175	02-02-27
Texas	NELAP	T104704499	07-31-27
USDA	US Federal Programs	525-23-159-97150	09-29-26
Utah	NELAP	CA00111	02-28-27
Washington	State	C916	10-12-26

Method Summary

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

Job ID: 380-236921-1
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: 380-236921-1
SDG: Weekly: Halawa Shaft Viewing Pool

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
380-236921-1	HALAWA SHAFT VIEWING POOL	Water	09/15/26 09:30	09/17/26 09:35	Hawaii
380-236921-2	TB: HALAWA SHAFT VIEWING POOL	Water	09/15/26 09:30	09/17/26 09:35	Hawaii

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

Chain of Custody Record



Client Information		Sampler: Kai Edison		Lab PM: Lopez, Maria		Carrier Tracking No(s):		COC No:	
Client Contact: Kirk Iwamoto		Phone: +1 808 748 5840		E-Mail: Maria.Lopez@eurofins.com		State of Origin:		Page: 1 of 1	
Company: City & County of Honolulu		PWSID:		Analysis Requested		Job #:		Preservation Codes: R - NaThioSO4 RA - NaThio/HCl Q - Na2SO3 QA - Na2SO3/HCl Y - Triuma I - NH4 Acetate	
Address: 630 South Beretania Street Chemistry Lab		Due Date Requested:		TAT Requested (days):		Compliance Project: Δ Yes Δ No		Other:	
City: Honolulu		PO #:		WO #:		Project #:		Special Instructions/Note:	
State, Zip: HI, 96843		C20525101 exp 05312023		38001111		SSOW#:		Total Number of containers	
Phone: 808-748-5840 (Tel)		Email: kiwamoto@hbws.org		Project Name: RED-HILL/HBWS Sites Event Desc: RUSH Weekly Red Hill		Site: Hawaii		Special Instructions/Note:	
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (water, solid, omitted)	
HALAWA SHAFT VIEWING POOL		15-Sep-2026		9:30		G		Water	
TB: HALAWA SHAFT VIEWING POOL		15-Sep-2026		9:30		G		Water	
Possible Hazard Identification		Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological ☐		Deliverable Requested: I, II, III, IV, Other (specify)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Return To Client ☐ Disposal By Lab ☐ Archive For ☐ Months	
Empty Kit Relinquished by:		Date:		Time:		Special Instructions/QC Requirements:		Method of Shipment: FedX	
Relinquished by:		Date/Time: 9/16/26 12:00		Company: HBWS		Received by: MARIA WORKER		Date/Time: 9/16/26 935	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:	
Custody Seal No.: Δ Yes Δ No		Custody Seal No.: 76-1-10286		Cooler Temperature(s) °C and Other Remarks: (63A) 2-9+0.2-3.1		Ver: 04/02/2024			

ORIGIN ID: HKA (808) 748-5840
BWS CHEM LAB
HONOLULU BOARD OF WATER SUPPLY
630 S. BERETANIA ST.
CHEMICAL LABORATORY
HONOLULU, HI 96843
UNITED STATES US

SHIP DATE: 16SEP26
ACTWTG: 54.00 LB
CAD: 25805052/NET4535
BILL RECIPIENT

TO EUROFINS RECEIVING DEPARTMENT
EUROFINS DRINKING WATER TESTING
941 CORPORATE CENTER DR
POMONA CA 91768

REF:

(626) 386-1100

INVC:

PO:

DEPT:



THU - 17 SEP 10:30A

PRIORITY OVERNIGHT

MPS# 8773 1622 0020

0263

Mstr# 8773 1622 0019

91768

WM ONTA

CA-US



(631A) 2.4+0.2 = 2.6 961-50261
Mandy Markkariava 9/17/26 935

After printing this label
CONSIGNEE COPY - PLEASE PLACE IN FRONT OF POUCH
1. Fold the printed page along the horizontal line.
2. Place label in shipping pouch and affix it to your shipment.

Ver: 08/18/2026
9/29/2026

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-236921-1

SDG Number: Weekly: Halawa Shaft Viewing Pool

Login Number: 236921

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: 380-236921-1

SDG Number: Weekly: Halawa Shaft Viewing Pool

Login Number: 236921

List Number: 2

Creator: Khana, Piyush

List Source: Eurofins Calscience

List Creation: 09/17/26 07:07 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	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	1.5
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	fgf5
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	