

ANALYTICAL REPORT

PREPARED FOR

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JOB DESCRIPTION

RED-HILL
Weekly: Halawa Shaft Viewing Pool

JOB NUMBER

380-216609-1

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
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Definitions/Glossary

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

Job ID: 380-216609-1
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
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
^3+	Reporting Limit Check Standard is outside acceptance limits, high biased
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
^3+	Reporting Limit Check Standard is outside acceptance limits, high biased

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: 380-216609-1

Job ID: 380-216609-1

Eurofins Pomona

Job Narrative 380-216609-1

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 5/28/2026 10:10 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 4.6°C and 5.8°C.

Receipt Exceptions

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

Method 8015B: The method reporting limit check (MRL) for preparation batch 570-747016 and analytical batch 570-750788 recovered outside control limits for the following analytes: C10-C28. These analytes were biased high in the MRL and were not detected in the associated samples; therefore, the data have been reported.

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: 380-216609-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: HALAWA SHAFT VIEWING POOL

Lab Sample ID: 380-216609-1

No Detections.

Client Sample ID: TB: HALAWA SHAFT VIEWING POOL

Lab Sample ID: 380-216609-2

No Detections.

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

This Detection Summary does not include radiochemical test results.

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Client Sample Results

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

Job ID: 380-216609-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: HALAWA SHAFT VIEWING POOL

Lab Sample ID: 380-216609-1

Date Collected: 05/26/26 09:15

Matrix: Water

Date Received: 05/28/26 10:10

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		06/03/26 07:39	06/04/26 14:20	1
2,4'-DDD	<0.096		0.096	ug/L		06/03/26 07:39	06/04/26 14:20	1
2,4'-DDE	<0.096		0.096	ug/L		06/03/26 07:39	06/04/26 14:20	1
2,4'-DDT	<0.096		0.096	ug/L		06/03/26 07:39	06/04/26 14:20	1
2,4-Dinitrotoluene	<0.096		0.096	ug/L		06/03/26 07:39	06/04/26 14:20	1
2,6-Dinitrotoluene	<0.096		0.096	ug/L		06/03/26 07:39	06/04/26 14:20	1
2-Methylnaphthalene	<0.096		0.096	ug/L		06/03/26 07:39	06/04/26 14:20	1
4,4'-DDD	<0.096		0.096	ug/L		06/03/26 07:39	06/04/26 14:20	1
4,4'-DDE	<0.096		0.096	ug/L		06/03/26 07:39	06/04/26 14:20	1
4,4'-DDT	<0.096		0.096	ug/L		06/03/26 07:39	06/04/26 14:20	1
Acenaphthene	<0.096		0.096	ug/L		06/03/26 07:39	06/04/26 14:20	1
Acenaphthylene	<0.096		0.096	ug/L		06/03/26 07:39	06/04/26 14:20	1
Acetochlor	<0.096		0.096	ug/L		06/03/26 07:39	06/04/26 14:20	1
Alachlor	<0.048		0.048	ug/L		06/03/26 07:39	06/04/26 14:20	1
alpha-BHC	<0.096		0.096	ug/L		06/03/26 07:39	06/04/26 14:20	1
alpha-Chlordane	<0.048		0.048	ug/L		06/03/26 07:39	06/04/26 14:20	1
Anthracene	<0.019		0.019	ug/L		06/03/26 07:39	06/04/26 14:20	1
Atrazine	<0.048		0.048	ug/L		06/03/26 07:39	06/04/26 14:20	1
Benz(a)anthracene	<0.048		0.048	ug/L		06/03/26 07:39	06/04/26 14:20	1
Benzo[a]pyrene	<0.019		0.019	ug/L		06/03/26 07:39	06/04/26 14:20	1
Benzo[b]fluoranthene	<0.019		0.019	ug/L		06/03/26 07:39	06/04/26 14:20	1
Benzo[g,h,i]perylene	<0.048		0.048	ug/L		06/03/26 07:39	06/04/26 14:20	1
Benzo[k]fluoranthene	<0.019		0.019	ug/L		06/03/26 07:39	06/04/26 14:20	1
beta-BHC	<0.096		0.096	ug/L		06/03/26 07:39	06/04/26 14:20	1
Bis(2-ethylhexyl) phthalate	<0.57		0.57	ug/L		06/03/26 07:39	06/04/26 14:20	1
Bromacil	<0.096		0.096	ug/L		06/03/26 07:39	06/04/26 14:20	1
Butachlor	<0.048	^3+	0.048	ug/L		06/03/26 07:39	06/04/26 14:20	1
Butylbenzylphthalate	<0.48		0.48	ug/L		06/03/26 07:39	06/04/26 14:20	1
Chlorobenzilate	<0.096		0.096	ug/L		06/03/26 07:39	06/04/26 14:20	1
Chloroneb	<0.096		0.096	ug/L		06/03/26 07:39	06/04/26 14:20	1
Chlorothalonil (Draconil, Bravo)	<0.096		0.096	ug/L		06/03/26 07:39	06/04/26 14:20	1
Chlorpyrifos	<0.048		0.048	ug/L		06/03/26 07:39	06/04/26 14:20	1
Chrysene	<0.019		0.019	ug/L		06/03/26 07:39	06/04/26 14:20	1
delta-BHC	<0.096		0.096	ug/L		06/03/26 07:39	06/04/26 14:20	1
Di(2-ethylhexyl)adipate	<0.57		0.57	ug/L		06/03/26 07:39	06/04/26 14:20	1
Dibenz(a,h)anthracene	<0.048		0.048	ug/L		06/03/26 07:39	06/04/26 14:20	1
Diclorvos (DDVP)	<0.048		0.048	ug/L		06/03/26 07:39	06/04/26 14:20	1
Dieldrin	<0.0096		0.0096	ug/L		06/03/26 07:39	06/04/26 14:20	1
Diethylphthalate	<0.48		0.48	ug/L		06/03/26 07:39	06/04/26 14:20	1
Dimethylphthalate	<0.48		0.48	ug/L		06/03/26 07:39	06/04/26 14:20	1
Di-n-butyl phthalate	<0.96		0.96	ug/L		06/03/26 07:39	06/04/26 14:20	1
Di-n-octyl phthalate	<0.096		0.096	ug/L		06/03/26 07:39	06/04/26 14:20	1
Endosulfan I (Alpha)	<0.096		0.096	ug/L		06/03/26 07:39	06/04/26 14:20	1
Endosulfan II (Beta)	<0.096		0.096	ug/L		06/03/26 07:39	06/04/26 14:20	1
Endosulfan sulfate	<0.096		0.096	ug/L		06/03/26 07:39	06/04/26 14:20	1
Endrin	<0.0096		0.0096	ug/L		06/03/26 07:39	06/04/26 14:20	1
Endrin aldehyde	<0.096		0.096	ug/L		06/03/26 07:39	06/04/26 14:20	1
EPTC	<0.096		0.096	ug/L		06/03/26 07:39	06/04/26 14:20	1
Fluoranthene	<0.096		0.096	ug/L		06/03/26 07:39	06/04/26 14:20	1

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Client Sample Results

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

Job ID: 380-216609-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: HALAWA SHAFT VIEWING POOL

Lab Sample ID: 380-216609-1

Date Collected: 05/26/26 09:15

Matrix: Water

Date Received: 05/28/26 10:10

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		06/03/26 07:39	06/04/26 14:20	1
gamma-Chlordane	<0.048		0.048	ug/L		06/03/26 07:39	06/04/26 14:20	1
Heptachlor	<0.0096	^3+	0.0096	ug/L		06/03/26 07:39	06/04/26 14:20	1
Heptachlor epoxide (isomer B)	<0.0096	^3+	0.0096	ug/L		06/03/26 07:39	06/04/26 14:20	1
Hexachlorobenzene	<0.048		0.048	ug/L		06/03/26 07:39	06/04/26 14:20	1
Hexachlorocyclopentadiene	<0.048		0.048	ug/L		06/03/26 07:39	06/04/26 14:20	1
Indeno[1,2,3-cd]pyrene	<0.048		0.048	ug/L		06/03/26 07:39	06/04/26 14:20	1
Isophorone	<0.096		0.096	ug/L		06/03/26 07:39	06/04/26 14:20	1
Lindane	<0.0096		0.0096	ug/L		06/03/26 07:39	06/04/26 14:20	1
Malathion	<0.096		0.096	ug/L		06/03/26 07:39	06/04/26 14:20	1
Methoxychlor	<0.048	^3+	0.048	ug/L		06/03/26 07:39	06/04/26 14:20	1
Metolachlor	<0.048		0.048	ug/L		06/03/26 07:39	06/04/26 14:20	1
Molinate	<0.096		0.096	ug/L		06/03/26 07:39	06/04/26 14:20	1
Naphthalene	<0.096		0.096	ug/L		06/03/26 07:39	06/04/26 14:20	1
Parathion	<0.096		0.096	ug/L		06/03/26 07:39	06/04/26 14:20	1
Pendimethalin (Penoxaline)	<0.096		0.096	ug/L		06/03/26 07:39	06/04/26 14:20	1
Phenanthrene	<0.038		0.038	ug/L		06/03/26 07:39	06/04/26 14:20	1
Propachlor	<0.048	^3+	0.048	ug/L		06/03/26 07:39	06/04/26 14:20	1
Pyrene	<0.048		0.048	ug/L		06/03/26 07:39	06/04/26 14:20	1
Simazine	<0.048		0.048	ug/L		06/03/26 07:39	06/04/26 14:20	1
Terbacil	<0.096		0.096	ug/L		06/03/26 07:39	06/04/26 14:20	1
Terbutylazine	<0.096		0.096	ug/L		06/03/26 07:39	06/04/26 14:20	1
Thiobencarb	<0.096		0.096	ug/L		06/03/26 07:39	06/04/26 14:20	1
Total Permethrin (mixed isomers)	<0.19		0.19	ug/L		06/03/26 07:39	06/04/26 14:20	1
trans-Nonachlor	<0.048		0.048	ug/L		06/03/26 07:39	06/04/26 14:20	1
Trifluralin	<0.096		0.096	ug/L		06/03/26 07:39	06/04/26 14:20	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Caffeine	0.058	^3+	ug/L		5.96	58-08-2	06/03/26 07:39	06/04/26 14:20	1
Tentatively Identified Compound	None		ug/L			N/A	06/03/26 07:39	06/04/26 14:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	95		70 - 130	06/03/26 07:39	06/04/26 14:20	1
Perylene-d12	94		70 - 130	06/03/26 07:39	06/04/26 14:20	1
Triphenylphosphate	107		70 - 130	06/03/26 07:39	06/04/26 14:20	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		05/31/26 08:21	06/03/26 14:05	1
2-Methylnaphthalene	<0.19		0.19	ug/L		05/31/26 08:21	06/03/26 14:05	1
Acenaphthene	<0.19		0.19	ug/L		05/31/26 08:21	06/03/26 14:05	1
Acenaphthylene	<0.19		0.19	ug/L		05/31/26 08:21	06/03/26 14:05	1
Anthracene	<0.19		0.19	ug/L		05/31/26 08:21	06/03/26 14:05	1
Benzo[a]anthracene	<0.19		0.19	ug/L		05/31/26 08:21	06/03/26 14:05	1
Benzo[a]pyrene	<0.19		0.19	ug/L		05/31/26 08:21	06/03/26 14:05	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		05/31/26 08:21	06/03/26 14:05	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		05/31/26 08:21	06/03/26 14:05	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		05/31/26 08:21	06/03/26 14:05	1
Chrysene	<0.19		0.19	ug/L		05/31/26 08:21	06/03/26 14:05	1
Dibenz(a,h)anthracene	<0.19		0.19	ug/L		05/31/26 08:21	06/03/26 14:05	1

Eurofins Pomona

Client Sample Results

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

Job ID: 380-216609-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: HALAWA SHAFT VIEWING POOL

Lab Sample ID: 380-216609-1

Date Collected: 05/26/26 09:15

Matrix: Water

Date Received: 05/28/26 10:10

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.19		0.19	ug/L		05/31/26 08:21	06/03/26 14:05	1
Fluorene	<0.19		0.19	ug/L		05/31/26 08:21	06/03/26 14:05	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		05/31/26 08:21	06/03/26 14:05	1
Naphthalene	<0.19		0.19	ug/L		05/31/26 08:21	06/03/26 14:05	1
Phenanthrene	<0.19		0.19	ug/L		05/31/26 08:21	06/03/26 14:05	1
Pyrene	<0.19		0.19	ug/L		05/31/26 08:21	06/03/26 14:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	74		28 - 127	05/31/26 08:21	06/03/26 14:05	1
2-Fluorobiphenyl (Surr)	74		31 - 120	05/31/26 08:21	06/03/26 14:05	1
2-Fluorophenol (Surr)	41		17 - 120	05/31/26 08:21	06/03/26 14:05	1
Nitrobenzene-d5 (Surr)	69		27 - 120	05/31/26 08:21	06/03/26 14:05	1
Phenol-d6 (Surr)	25		10 - 120	05/31/26 08:21	06/03/26 14:05	1
p-Terphenyl-d14 (Surr)	61		45 - 120	05/31/26 08:21	06/03/26 14:05	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	05/31/26 08:21	06/04/26 14:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	90		33 - 139	05/31/26 08:21	06/04/26 14:28	1
2-Fluorobiphenyl (Surr)	81		33 - 126	05/31/26 08:21	06/04/26 14:28	1
2-Fluorophenol (Surr)	49		12 - 120	05/31/26 08:21	06/04/26 14:28	1
Nitrobenzene-d5 (Surr)	108		36 - 120	05/31/26 08:21	06/04/26 14:28	1
Phenol-d6 (Surr)	27		10 - 120	05/31/26 08:21	06/04/26 14:28	1
p-Terphenyl-d14 (Surr)	78		47 - 131	05/31/26 08:21	06/04/26 14:28	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			06/06/26 22:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		38 - 134		06/06/26 22:14	1

Method: SW846 8015B - Diesel Range Organics (DRO) (GC) Low Level

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<25		25	ug/L		06/01/26 09:04	06/08/26 15:42	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		06/01/26 09:04	06/08/26 15:42	1
C8-C18	<25		25	ug/L		06/01/26 09:04	06/08/26 15:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	100		60 - 130	06/01/26 09:04	06/08/26 15:42	1

Client Sample ID: TB: HALAWA SHAFT VIEWING POOL

Lab Sample ID: 380-216609-2

Date Collected: 05/26/26 09:15

Matrix: Water

Date Received: 05/28/26 10:10

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	<10		10	ug/L			06/06/26 19:08	1

Eurofins Pomona

Client Sample Results

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

Job ID: 380-216609-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: TB: HALAWA SHAFT VIEWING POOL

Lab Sample ID: 380-216609-2

Date Collected: 05/26/26 09:15

Matrix: Water

Date Received: 05/28/26 10:10

<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)	100		38 - 134		06/06/26 19:08	1

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

Action Limit Summary

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

Job ID: 380-216609-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: HALAWA SHAFT VIEWING POOL

Lab Sample ID: 380-216609-1

Compliance Check

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

Analyte	Result	Qualifier	Unit	EPAMCL	RL	Method	Prep Type
				Limit			
Alachlor	<0.048		ug/L	2	0.048	525.2	Total/NA
Atrazine	<0.048		ug/L	3	0.048	525.2	Total/NA
Benzo[a]pyrene	<0.019		ug/L	0.2	0.019	525.2	Total/NA
Bis(2-ethylhexyl) phthalate	<0.57		ug/L	6	0.57	525.2	Total/NA
Di(2-ethylhexyl)adipate	<0.57		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	^3+	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: 380-216609-1
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)
380-216594-I-1-A MS	Matrix Spike	97	98	108
380-216609-1	HALAWA SHAFT VIEWING POOL	95	94	107
380-216609-1 DU	HALAWA SHAFT VIEWING POOL	96	95	108
LCS 380-231285/23-A	Lab Control Sample	96	98	108
MB 380-231285/21-A	Method Blank	97	88	103
MRL 380-231285/22-A	Lab Control Sample	96	87	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)
380-216609-1	HALAWA SHAFT VIEWING POOL	90	81	49	108	27	78
MB 570-746664/1-A	Method Blank	106	89	60	108	37	92

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

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)
380-216586-A-1-A MS	Matrix Spike	80	79	54	69	37	78
380-216586-A-1-B MSD	Matrix Spike Duplicate	77	83	57	69	39	81
380-216609-1	HALAWA SHAFT VIEWING POOL	74	74	41	69	25	61
LCS 570-746664/2-A	Lab Control Sample	73	75	50	64	34	70
LCSD 570-746664/3-A	Lab Control Sample Dup	69	72	47	61	33	74
MB 570-746664/1-A	Method Blank	85	83	49	80	31	78

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

Surrogate Summary

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

Job ID: 380-216609-1
 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)
380-216586-B-1 MS	Matrix Spike	100
380-216586-B-1 MSD	Matrix Spike Duplicate	89
380-216609-1	HALAWA SHAFT VIEWING POOL	103
380-216609-2	TB: HALAWA SHAFT VIEWING POOL	100
LCS 570-750190/3	Lab Control Sample	98
LCSD 570-750190/4	Lab Control Sample Dup	98
MB 570-750190/6	Method Blank	102
MRL 570-750190/5	Lab Control Sample	99

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)
380-216586-C-1-A MS	Matrix Spike	110
380-216586-C-1-B MSD	Matrix Spike Duplicate	102
380-216609-1	HALAWA SHAFT VIEWING POOL	100
LCS 570-747016/2-A	Lab Control Sample	108
LCSD 570-747016/3-A	Lab Control Sample Dup	109
MB 570-747016/1-A	Method Blank	103
MRL 570-747016/4-A	Lab Control Sample	98

Surrogate Legend

OTCSN = n-Octacosane (Surr)

QC Sample Results

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

Job ID: 380-216609-1
 SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MB 380-231285/21-A
 Matrix: Water
 Analysis Batch: 231634

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 231285

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.099		0.099	ug/L		06/03/26 07:39	06/04/26 12:39	1
2,4'-DDD	<0.099		0.099	ug/L		06/03/26 07:39	06/04/26 12:39	1
2,4'-DDE	<0.099		0.099	ug/L		06/03/26 07:39	06/04/26 12:39	1
2,4'-DDT	<0.099		0.099	ug/L		06/03/26 07:39	06/04/26 12:39	1
2,4-Dinitrotoluene	<0.099		0.099	ug/L		06/03/26 07:39	06/04/26 12:39	1
2,6-Dinitrotoluene	<0.099		0.099	ug/L		06/03/26 07:39	06/04/26 12:39	1
2-Methylnaphthalene	<0.099		0.099	ug/L		06/03/26 07:39	06/04/26 12:39	1
4,4'-DDD	<0.099		0.099	ug/L		06/03/26 07:39	06/04/26 12:39	1
4,4'-DDE	<0.099		0.099	ug/L		06/03/26 07:39	06/04/26 12:39	1
4,4'-DDT	<0.099		0.099	ug/L		06/03/26 07:39	06/04/26 12:39	1
Acenaphthene	<0.099		0.099	ug/L		06/03/26 07:39	06/04/26 12:39	1
Acenaphthylene	<0.099		0.099	ug/L		06/03/26 07:39	06/04/26 12:39	1
Acetochlor	<0.099		0.099	ug/L		06/03/26 07:39	06/04/26 12:39	1
Alachlor	<0.050		0.050	ug/L		06/03/26 07:39	06/04/26 12:39	1
alpha-BHC	<0.099		0.099	ug/L		06/03/26 07:39	06/04/26 12:39	1
alpha-Chlordane	<0.050		0.050	ug/L		06/03/26 07:39	06/04/26 12:39	1
Anthracene	<0.020		0.020	ug/L		06/03/26 07:39	06/04/26 12:39	1
Atrazine	<0.050		0.050	ug/L		06/03/26 07:39	06/04/26 12:39	1
Benz(a)anthracene	<0.050		0.050	ug/L		06/03/26 07:39	06/04/26 12:39	1
Benzo[a]pyrene	<0.020		0.020	ug/L		06/03/26 07:39	06/04/26 12:39	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		06/03/26 07:39	06/04/26 12:39	1
Benzo[g,h,i]perylene	<0.050		0.050	ug/L		06/03/26 07:39	06/04/26 12:39	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		06/03/26 07:39	06/04/26 12:39	1
beta-BHC	<0.099		0.099	ug/L		06/03/26 07:39	06/04/26 12:39	1
Bis(2-ethylhexyl) phthalate	<0.60		0.60	ug/L		06/03/26 07:39	06/04/26 12:39	1
Bromacil	<0.099		0.099	ug/L		06/03/26 07:39	06/04/26 12:39	1
Butachlor	<0.050	^3+	0.050	ug/L		06/03/26 07:39	06/04/26 12:39	1
Butylbenzylphthalate	<0.50		0.50	ug/L		06/03/26 07:39	06/04/26 12:39	1
Chlorobenzilate	<0.099		0.099	ug/L		06/03/26 07:39	06/04/26 12:39	1
Chloroneb	<0.099		0.099	ug/L		06/03/26 07:39	06/04/26 12:39	1
Chlorothalonil (Draconil, Bravo)	<0.099		0.099	ug/L		06/03/26 07:39	06/04/26 12:39	1
Chlorpyrifos	<0.050		0.050	ug/L		06/03/26 07:39	06/04/26 12:39	1
Chrysene	<0.020		0.020	ug/L		06/03/26 07:39	06/04/26 12:39	1
delta-BHC	<0.099		0.099	ug/L		06/03/26 07:39	06/04/26 12:39	1
Di(2-ethylhexyl)adipate	<0.60		0.60	ug/L		06/03/26 07:39	06/04/26 12:39	1
Dibenz(a,h)anthracene	<0.050		0.050	ug/L		06/03/26 07:39	06/04/26 12:39	1
Diclorvos (DDVP)	<0.050		0.050	ug/L		06/03/26 07:39	06/04/26 12:39	1
Dieldrin	<0.0099		0.0099	ug/L		06/03/26 07:39	06/04/26 12:39	1
Diethylphthalate	<0.50		0.50	ug/L		06/03/26 07:39	06/04/26 12:39	1
Dimethylphthalate	<0.50		0.50	ug/L		06/03/26 07:39	06/04/26 12:39	1
Di-n-butyl phthalate	<0.99		0.99	ug/L		06/03/26 07:39	06/04/26 12:39	1
Di-n-octyl phthalate	<0.099		0.099	ug/L		06/03/26 07:39	06/04/26 12:39	1
Endosulfan I (Alpha)	<0.099		0.099	ug/L		06/03/26 07:39	06/04/26 12:39	1
Endosulfan II (Beta)	<0.099		0.099	ug/L		06/03/26 07:39	06/04/26 12:39	1
Endosulfan sulfate	<0.099		0.099	ug/L		06/03/26 07:39	06/04/26 12:39	1
Endrin	<0.0099		0.0099	ug/L		06/03/26 07:39	06/04/26 12:39	1
Endrin aldehyde	<0.099		0.099	ug/L		06/03/26 07:39	06/04/26 12:39	1
EPTC	<0.099		0.099	ug/L		06/03/26 07:39	06/04/26 12:39	1

QC Sample Results

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

Job ID: 380-216609-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MB 380-231285/21-A
Matrix: Water
Analysis Batch: 231634

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 231285

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.099		0.099	ug/L		06/03/26 07:39	06/04/26 12:39	1
Fluorene	<0.050		0.050	ug/L		06/03/26 07:39	06/04/26 12:39	1
gamma-Chlordane	<0.050		0.050	ug/L		06/03/26 07:39	06/04/26 12:39	1
Heptachlor	<0.0099	^3+	0.0099	ug/L		06/03/26 07:39	06/04/26 12:39	1
Heptachlor epoxide (isomer B)	<0.0099	^3+	0.0099	ug/L		06/03/26 07:39	06/04/26 12:39	1
Hexachlorobenzene	<0.050		0.050	ug/L		06/03/26 07:39	06/04/26 12:39	1
Hexachlorocyclopentadiene	<0.050		0.050	ug/L		06/03/26 07:39	06/04/26 12:39	1
Indeno[1,2,3-cd]pyrene	<0.050		0.050	ug/L		06/03/26 07:39	06/04/26 12:39	1
Isophorone	<0.099		0.099	ug/L		06/03/26 07:39	06/04/26 12:39	1
Lindane	<0.0099		0.0099	ug/L		06/03/26 07:39	06/04/26 12:39	1
Malathion	<0.099		0.099	ug/L		06/03/26 07:39	06/04/26 12:39	1
Methoxychlor	<0.050	^3+	0.050	ug/L		06/03/26 07:39	06/04/26 12:39	1
Metolachlor	<0.050		0.050	ug/L		06/03/26 07:39	06/04/26 12:39	1
Molinate	<0.099		0.099	ug/L		06/03/26 07:39	06/04/26 12:39	1
Naphthalene	<0.099		0.099	ug/L		06/03/26 07:39	06/04/26 12:39	1
Parathion	<0.099		0.099	ug/L		06/03/26 07:39	06/04/26 12:39	1
Pendimethalin (Penoxaline)	<0.099		0.099	ug/L		06/03/26 07:39	06/04/26 12:39	1
Phenanthrene	<0.040		0.040	ug/L		06/03/26 07:39	06/04/26 12:39	1
Propachlor	<0.050	^3+	0.050	ug/L		06/03/26 07:39	06/04/26 12:39	1
Pyrene	<0.050		0.050	ug/L		06/03/26 07:39	06/04/26 12:39	1
Simazine	<0.050		0.050	ug/L		06/03/26 07:39	06/04/26 12:39	1
Terbacil	<0.099		0.099	ug/L		06/03/26 07:39	06/04/26 12:39	1
Terbutylazine	<0.099		0.099	ug/L		06/03/26 07:39	06/04/26 12:39	1
Thiobencarb	<0.099		0.099	ug/L		06/03/26 07:39	06/04/26 12:39	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		06/03/26 07:39	06/04/26 12:39	1
trans-Nonachlor	<0.050		0.050	ug/L		06/03/26 07:39	06/04/26 12:39	1
Trifluralin	<0.099		0.099	ug/L		06/03/26 07:39	06/04/26 12:39	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Undecane	3.91	T J N	ug/L		3.11	1120-21-4	06/03/26 07:39	06/04/26 12:39	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	97		70 - 130	06/03/26 07:39	06/04/26 12:39	1
Perylene-d12	88		70 - 130	06/03/26 07:39	06/04/26 12:39	1
Triphenylphosphate	103		70 - 130	06/03/26 07:39	06/04/26 12:39	1

Lab Sample ID: LCS 380-231285/23-A
Matrix: Water
Analysis Batch: 231634

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 231285

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1-Methylnaphthalene	1.99	1.90		ug/L		96	70 - 130
2,4'-DDD	1.99	2.02		ug/L		102	70 - 130
2,4'-DDE	1.99	1.95		ug/L		98	70 - 130
2,4'-DDT	1.99	1.88		ug/L		94	70 - 130
2,4-Dinitrotoluene	1.99	2.09		ug/L		105	70 - 130
2,6-Dinitrotoluene	1.99	2.15		ug/L		108	70 - 130
2-Methylnaphthalene	1.99	1.86		ug/L		94	70 - 130

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QC Sample Results

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

Job ID: 380-216609-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCS 380-231285/23-A
Matrix: Water
Analysis Batch: 231634

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 231285

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	1.99	1.95		ug/L		98	70 - 130
4,4'-DDE	1.99	1.79		ug/L		90	70 - 130
4,4'-DDT	1.99	1.93		ug/L		97	70 - 130
Acenaphthene	1.99	1.96		ug/L		99	70 - 130
Acenaphthylene	1.99	1.97		ug/L		99	70 - 130
Acetochlor	1.99	2.08		ug/L		105	70 - 130
Alachlor	1.99	2.03		ug/L		102	70 - 130
alpha-BHC	1.99	1.93		ug/L		97	70 - 130
alpha-Chlordane	1.99	1.90		ug/L		96	70 - 130
Anthracene	1.99	1.87		ug/L		94	70 - 130
Atrazine	1.99	2.15		ug/L		108	70 - 130
Benz(a)anthracene	1.99	2.03		ug/L		102	70 - 130
Benzo[a]pyrene	1.99	2.08		ug/L		105	70 - 130
Benzo[b]fluoranthene	1.99	2.10		ug/L		106	70 - 130
Benzo[g,h,i]perylene	1.99	2.12		ug/L		107	70 - 130
Benzo[k]fluoranthene	1.99	2.06		ug/L		104	70 - 130
beta-BHC	1.99	2.00		ug/L		101	70 - 130
Bis(2-ethylhexyl) phthalate	1.99	1.98		ug/L		100	70 - 130
Bromacil	1.99	2.12		ug/L		107	70 - 130
Butachlor	1.99	2.15		ug/L		108	70 - 130
Butylbenzylphthalate	1.99	2.17		ug/L		109	70 - 130
Chlorobenzilate	1.99	2.17		ug/L		109	70 - 130
Chloroneb	1.99	2.03		ug/L		102	70 - 130
Chlorothalonil (Draconil, Bravo)	1.99	2.10		ug/L		106	70 - 130
Chlorpyrifos	1.99	1.96		ug/L		99	70 - 130
Chrysene	1.99	1.91		ug/L		96	70 - 130
delta-BHC	1.99	1.93		ug/L		97	70 - 130
Di(2-ethylhexyl)adipate	1.99	2.07		ug/L		104	70 - 130
Dibenz(a,h)anthracene	1.99	2.11		ug/L		106	70 - 130
Diclorvos (DDVP)	1.99	2.20		ug/L		111	70 - 130
Dieldrin	1.99	2.25		ug/L		113	70 - 130
Diethylphthalate	1.99	2.12		ug/L		107	70 - 130
Dimethylphthalate	1.99	2.04		ug/L		103	70 - 130
Di-n-butyl phthalate	3.97	4.23		ug/L		106	70 - 130
Di-n-octyl phthalate	1.99	1.96		ug/L		99	70 - 130
Endosulfan I (Alpha)	1.99	1.96		ug/L		99	70 - 130
Endosulfan II (Beta)	1.99	1.89		ug/L		95	70 - 130
Endosulfan sulfate	1.99	2.15		ug/L		108	70 - 130
Endrin	1.99	2.38		ug/L		120	70 - 130
Endrin aldehyde	1.99	2.10		ug/L		106	60 - 130
EPTC	1.99	2.00		ug/L		101	70 - 130
Fluoranthene	1.99	1.85		ug/L		93	70 - 130
Fluorene	1.99	1.96		ug/L		99	70 - 130
gamma-Chlordane	1.99	1.93		ug/L		97	70 - 130
Heptachlor	1.99	2.17		ug/L		109	70 - 130
Heptachlor epoxide (isomer B)	1.99	2.01		ug/L		101	70 - 130
Hexachlorobenzene	1.99	1.75		ug/L		88	70 - 130
Hexachlorocyclopentadiene	1.99	1.99		ug/L		100	70 - 130
Indeno[1,2,3-cd]pyrene	1.99	2.26		ug/L		114	70 - 130

Eurofins Pomona

QC Sample Results

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

Job ID: 380-216609-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCS 380-231285/23-A
Matrix: Water
Analysis Batch: 231634

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 231285

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Isophorone	1.99	1.91		ug/L		96	70 - 130
Lindane	1.99	2.17		ug/L		109	70 - 130
Malathion	1.99	2.02		ug/L		102	70 - 130
Methoxychlor	1.99	2.05		ug/L		103	70 - 130
Metolachlor	1.99	2.02		ug/L		101	70 - 130
Molinate	1.99	2.06		ug/L		104	70 - 130
Naphthalene	1.99	1.86		ug/L		93	70 - 130
Parathion	1.99	2.32		ug/L		117	70 - 130
Pendimethalin (Penoxaline)	1.99	2.21		ug/L		111	70 - 130
Phenanthrene	1.99	1.88		ug/L		95	70 - 130
Propachlor	1.99	2.16		ug/L		109	70 - 130
Pyrene	1.99	1.97		ug/L		99	70 - 130
Simazine	1.99	2.04		ug/L		103	70 - 130
Terbacil	1.99	2.27		ug/L		114	70 - 130
Terbutylazine	1.99	2.14		ug/L		108	70 - 130
Thiobencarb	1.99	2.02		ug/L		102	70 - 130
trans-Nonachlor	1.99	1.83		ug/L		92	70 - 130
Trifluralin	1.99	2.31		ug/L		116	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Nitro-m-xylene	96		70 - 130
Perylene-d12	98		70 - 130
Triphenylphosphate	108		70 - 130

Lab Sample ID: MRL 380-231285/22-A
Matrix: Water
Analysis Batch: 231634

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 231285

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	0.0995	0.0991	J	ug/L		100	50 - 150
2,4'-DDD	0.0995	0.0843	J	ug/L		85	50 - 150
2,4'-DDE	0.0995	0.0962	J	ug/L		97	50 - 150
2,4'-DDT	0.0995	0.110		ug/L		111	50 - 150
2,4-Dinitrotoluene	0.0995	0.132		ug/L		132	50 - 150
2,6-Dinitrotoluene	0.0995	0.122		ug/L		123	50 - 150
2-Methylnaphthalene	0.0995	0.100		ug/L		101	50 - 150
4,4'-DDD	0.0995	0.104		ug/L		105	50 - 150
4,4'-DDE	0.0995	0.119		ug/L		120	50 - 150
4,4'-DDT	0.0995	0.110		ug/L		110	50 - 150
Acenaphthene	0.0995	0.0994	J	ug/L		100	50 - 150
Acenaphthylene	0.0995	0.102		ug/L		103	50 - 150
Acetochlor	0.0995	0.119		ug/L		120	50 - 150
Alachlor	0.0498	0.0731		ug/L		147	50 - 150
alpha-BHC	0.0995	0.121		ug/L		122	50 - 150
alpha-Chlordane	0.0249	0.0308	J	ug/L		124	50 - 150
Anthracene	0.0199	0.0265		ug/L		133	50 - 150
Atrazine	0.0498	0.0578		ug/L		116	50 - 150
Benz(a)anthracene	0.0498	0.0513		ug/L		103	50 - 150

QC Sample Results

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

Job ID: 380-216609-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MRL 380-231285/22-A
Matrix: Water
Analysis Batch: 231634

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 231285

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Benzo[a]pyrene	0.0199	0.0213		ug/L		107	50 - 150
Benzo[b]fluoranthene	0.0199	0.0227		ug/L		114	50 - 150
Benzo[g,h,i]perylene	0.0498	0.0715		ug/L		144	50 - 150
Benzo[k]fluoranthene	0.0199	0.0219		ug/L		110	50 - 150
beta-BHC	0.0995	0.122		ug/L		123	50 - 150
Bis(2-ethylhexyl) phthalate	0.597	0.698		ug/L		117	50 - 150
Bromacil	0.0995	0.137		ug/L		138	50 - 150
Butachlor	0.0498	0.0765	^3+	ug/L		154	50 - 150
Butylbenzylphthalate	0.498	0.548		ug/L		110	50 - 150
Chlorobenzilate	0.0995	0.131		ug/L		131	50 - 150
Chloroneb	0.0995	0.106		ug/L		106	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0995	0.111		ug/L		111	50 - 150
Chlorpyrifos	0.0498	0.0706		ug/L		142	50 - 150
Chrysene	0.0199	0.0211		ug/L		106	50 - 150
delta-BHC	0.0995	0.116		ug/L		116	50 - 150
Di(2-ethylhexyl)adipate	0.597	0.727		ug/L		122	50 - 150
Dibenz(a,h)anthracene	0.0498	0.0572		ug/L		115	50 - 150
Diclorvos (DDVP)	0.0498	0.0714		ug/L		144	50 - 150
Dieldrin	0.00995	0.0132		ug/L		132	50 - 150
Diethylphthalate	0.498	0.541		ug/L		109	50 - 150
Dimethylphthalate	0.498	0.537		ug/L		108	50 - 150
Di-n-butyl phthalate	0.498	0.651	J	ug/L		131	49 - 243
Di-n-octyl phthalate	0.0995	0.133		ug/L		134	50 - 150
Endosulfan I (Alpha)	0.0995	0.0980	J	ug/L		98	50 - 150
Endosulfan II (Beta)	0.0995	0.136		ug/L		137	50 - 150
Endosulfan sulfate	0.0995	0.118		ug/L		118	50 - 150
Endrin	0.00995	0.0117		ug/L		117	50 - 150
Endrin aldehyde	0.0995	0.136		ug/L		136	50 - 150
EPTC	0.0995	0.110		ug/L		110	50 - 150
Fluoranthene	0.0995	0.112		ug/L		113	50 - 150
Fluorene	0.0498	0.0558		ug/L		112	50 - 150
gamma-Chlordane	0.0249	0.0339	J	ug/L		136	50 - 150
Heptachlor	0.00995	0.0156	^3+	ug/L		157	50 - 150
Heptachlor epoxide (isomer B)	0.00995	0.0156	^3+	ug/L		156	50 - 150
Hexachlorobenzene	0.0498	0.0686		ug/L		138	50 - 150
Hexachlorocyclopentadiene	0.0498	0.0456	J	ug/L		92	50 - 150
Indeno[1,2,3-cd]pyrene	0.0498	0.0677		ug/L		136	50 - 150
Isophorone	0.0995	0.109		ug/L		109	50 - 150
Lindane	0.00995	0.0101		ug/L		101	50 - 150
Malathion	0.0995	0.123		ug/L		123	50 - 150
Methoxychlor	0.0498	0.0759	^3+	ug/L		153	50 - 150
Metolachlor	0.0498	0.0639		ug/L		128	50 - 150
Molinate	0.0995	0.124		ug/L		125	50 - 150
Naphthalene	0.0995	0.0989	J	ug/L		99	50 - 150
Parathion	0.0995	0.116		ug/L		117	50 - 150
Pendimethalin (Penoxaline)	0.0995	0.112		ug/L		113	50 - 150
Phenanthrene	0.0398	0.0447		ug/L		112	50 - 150
Propachlor	0.0498	0.0811	^3+	ug/L		163	50 - 150
Pyrene	0.0498	0.0572		ug/L		115	50 - 150

Eurofins Pomona

QC Sample Results

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

Job ID: 380-216609-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MRL 380-231285/22-A
Matrix: Water
Analysis Batch: 231634

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 231285

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Simazine	0.0498	0.0739		ug/L		149	50 - 150
Terbacil	0.0995	0.141		ug/L		141	50 - 150
Terbuthylazine	0.0995	0.111		ug/L		112	50 - 150
Thiobencarb	0.0995	0.110		ug/L		111	50 - 150
trans-Nonachlor	0.0249	0.0263	J	ug/L		106	50 - 150
Trifluralin	0.0995	0.132		ug/L		132	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
2-Nitro-m-xylene	96		70 - 130
Perylene-d12	87		70 - 130
Triphenylphosphate	101		70 - 130

Lab Sample ID: 380-216594-I-1-A MS
Matrix: Water
Analysis Batch: 231634

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 231285

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.098		1.97	1.96		ug/L		99	70 - 130
2,4'-DDD	<0.098		1.97	2.10		ug/L		107	70 - 130
2,4'-DDE	<0.098		1.97	2.06		ug/L		105	70 - 130
2,4'-DDT	<0.098		1.97	1.96		ug/L		100	70 - 130
2,4-Dinitrotoluene	<0.098		1.97	2.17		ug/L		110	70 - 130
2,6-Dinitrotoluene	<0.098		1.97	2.20		ug/L		112	70 - 130
2-Methylnaphthalene	<0.098		1.97	1.92		ug/L		97	70 - 130
4,4'-DDD	<0.098		1.97	2.03		ug/L		103	70 - 130
4,4'-DDE	<0.098		1.97	1.90		ug/L		97	70 - 130
4,4'-DDT	<0.098		1.97	1.98		ug/L		101	70 - 130
Acenaphthene	<0.098		1.97	1.97		ug/L		100	70 - 130
Acenaphthylene	<0.098		1.97	1.95		ug/L		99	70 - 130
Acetochlor	<0.098		1.97	2.20		ug/L		112	70 - 130
Alachlor	<0.049		1.97	2.16		ug/L		109	70 - 130
alpha-BHC	<0.098		1.97	1.96		ug/L		99	70 - 130
alpha-Chlordane	<0.049		1.97	1.99		ug/L		101	70 - 130
Anthracene	<0.020		1.97	1.51		ug/L		76	70 - 130
Atrazine	<0.049		1.97	2.11		ug/L		107	70 - 130
Benz(a)anthracene	<0.049		1.97	2.05		ug/L		104	70 - 130
Benzo[a]pyrene	<0.020		1.97	1.92		ug/L		97	70 - 130
Benzo[b]fluoranthene	<0.020		1.97	2.15		ug/L		109	70 - 130
Benzo[g,h,i]perylene	<0.049		1.97	2.23		ug/L		113	70 - 130
Benzo[k]fluoranthene	<0.020		1.97	2.11		ug/L		107	70 - 130
beta-BHC	<0.098		1.97	2.04		ug/L		104	70 - 130
Bis(2-ethylhexyl) phthalate	<0.59		1.97	2.06		ug/L		105	70 - 130
Bromacil	<0.098		1.97	2.22		ug/L		111	70 - 130
Butachlor	<0.049	^3+	1.97	2.29		ug/L		116	70 - 130
Butylbenzylphthalate	<0.49		1.97	2.30		ug/L		117	70 - 130
Chlorobenzilate	<0.098		1.97	2.24		ug/L		114	70 - 130
Chloroneb	<0.098		1.97	2.04		ug/L		103	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.098		1.97	2.14		ug/L		109	70 - 130

QC Sample Results

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

Job ID: 380-216609-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: 380-216594-I-1-A MS
Matrix: Water
Analysis Batch: 231634

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 231285

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chlorpyrifos	<0.049		1.97	2.03		ug/L		103	70 - 130
Chrysene	<0.020		1.97	1.92		ug/L		98	70 - 130
delta-BHC	<0.098		1.97	2.00		ug/L		101	70 - 130
Di(2-ethylhexyl)adipate	<0.59		1.97	2.17		ug/L		110	70 - 130
Dibenz(a,h)anthracene	<0.049		1.97	2.12		ug/L		107	70 - 130
Diclorvos (DDVP)	<0.049		1.97	2.15		ug/L		109	70 - 130
Dieldrin	<0.0098		1.97	2.35		ug/L		119	70 - 130
Diethylphthalate	<0.49		1.97	2.11		ug/L		107	70 - 130
Dimethylphthalate	<0.49		1.97	2.02		ug/L		103	70 - 130
Di-n-butyl phthalate	<0.98		3.94	4.49		ug/L		114	70 - 130
Di-n-octyl phthalate	<0.098		1.97	2.05		ug/L		104	70 - 130
Endosulfan I (Alpha)	<0.098		1.97	2.06		ug/L		105	70 - 130
Endosulfan II (Beta)	<0.098		1.97	1.95		ug/L		99	70 - 130
Endosulfan sulfate	<0.098		1.97	2.25		ug/L		114	70 - 130
Endrin	<0.0098		1.97	2.51		ug/L		127	70 - 130
Endrin aldehyde	<0.098		1.97	2.09		ug/L		106	60 - 130
EPTC	<0.098		1.97	2.05		ug/L		104	70 - 130
Fluoranthene	<0.098		1.97	1.94		ug/L		97	70 - 130
Fluorene	<0.049		1.97	1.94		ug/L		98	70 - 130
gamma-Chlordane	<0.049		1.97	2.08		ug/L		105	70 - 130
Heptachlor	<0.0098	^3+	1.97	2.32		ug/L		118	70 - 130
Heptachlor epoxide (isomer B)	<0.0098	^3+	1.97	2.07		ug/L		105	70 - 130
Hexachlorobenzene	<0.049		1.97	1.79		ug/L		91	70 - 130
Hexachlorocyclopentadiene	<0.049		1.97	1.98		ug/L		101	70 - 130
Indeno[1,2,3-cd]pyrene	<0.049		1.97	2.39		ug/L		122	70 - 130
Isophorone	<0.098		1.97	1.93		ug/L		98	70 - 130
Lindane	<0.0098		1.97	2.24		ug/L		114	70 - 130
Malathion	<0.098		1.97	2.09		ug/L		106	70 - 130
Methoxychlor	<0.049	^3+	1.97	2.11		ug/L		107	70 - 130
Metolachlor	<0.049		1.97	2.12		ug/L		108	70 - 130
Molinate	<0.098		1.97	2.04		ug/L		103	70 - 130
Naphthalene	<0.098		1.97	1.90		ug/L		97	70 - 130
Parathion	<0.098		1.97	2.40		ug/L		122	70 - 130
Pendimethalin (Penoxaline)	<0.098		1.97	2.29		ug/L		116	70 - 130
Phenanthrene	<0.039		1.97	1.91		ug/L		97	70 - 130
Propachlor	<0.049	^3+	1.97	2.15		ug/L		109	70 - 130
Pyrene	<0.049		1.97	2.01		ug/L		102	70 - 130
Simazine	<0.049		1.97	2.05		ug/L		104	70 - 130
Terbacil	<0.098		1.97	2.31		ug/L		117	70 - 130
Terbutylazine	<0.098		1.97	2.13		ug/L		108	70 - 130
Thiobencarb	<0.098		1.97	2.10		ug/L		106	70 - 130
trans-Nonachlor	<0.049		1.97	2.04		ug/L		104	70 - 130
Trifluralin	<0.098		1.97	2.37		ug/L		120	70 - 130

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

QC Sample Results

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

Job ID: 380-216609-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: 380-216609-1 DU
Matrix: Water
Analysis Batch: 231634

Client Sample ID: HALAWA SHAFT VIEWING POOL
Prep Type: Total/NA
Prep Batch: 231285

Analyte	Sample	Sample Qualifier	DU	DU	Unit	D	RPD	Limit
	Result		Result	Qualifier				
1-Methylnaphthalene	<0.096		<0.096		ug/L		NC	20
2,4'-DDD	<0.096		<0.096		ug/L		NC	20
2,4'-DDE	<0.096		<0.096		ug/L		NC	20
2,4'-DDT	<0.096		<0.096		ug/L		NC	20
2,4-Dinitrotoluene	<0.096		<0.096		ug/L		NC	20
2,6-Dinitrotoluene	<0.096		<0.096		ug/L		NC	20
2-Methylnaphthalene	<0.096		<0.096		ug/L		NC	20
4,4'-DDD	<0.096		<0.096		ug/L		NC	20
4,4'-DDE	<0.096		<0.096		ug/L		NC	20
4,4'-DDT	<0.096		<0.096		ug/L		NC	20
Acenaphthene	<0.096		<0.096		ug/L		NC	20
Acenaphthylene	<0.096		<0.096		ug/L		NC	20
Acetochlor	<0.096		<0.096		ug/L		NC	20
Alachlor	<0.048		<0.048		ug/L		NC	20
alpha-BHC	<0.096		<0.096		ug/L		NC	20
alpha-Chlordane	<0.048		<0.048		ug/L		NC	20
Anthracene	<0.019		<0.019		ug/L		NC	20
Atrazine	<0.048		<0.048		ug/L		NC	20
Benz(a)anthracene	<0.048		<0.048		ug/L		NC	20
Benzo[a]pyrene	<0.019		<0.019		ug/L		NC	20
Benzo[b]fluoranthene	<0.019		<0.019		ug/L		NC	20
Benzo[g,h,i]perylene	<0.048		<0.048		ug/L		NC	20
Benzo[k]fluoranthene	<0.019		<0.019		ug/L		NC	20
beta-BHC	<0.096		<0.096		ug/L		NC	20
Bis(2-ethylhexyl) phthalate	<0.57		<0.58		ug/L		NC	20
Bromacil	<0.096		<0.096		ug/L		NC	20
Butachlor	<0.048	^3+	<0.048		ug/L		NC	20
Butylbenzylphthalate	<0.48		<0.48		ug/L		NC	20
Chlorobenzilate	<0.096		<0.096		ug/L		NC	20
Chloroneb	<0.096		<0.096		ug/L		NC	20
Chlorothalonil (Draconil, Bravo)	<0.096		<0.096		ug/L		NC	20
Chlorpyrifos	<0.048		<0.048		ug/L		NC	20
Chrysene	<0.019		<0.019		ug/L		NC	20
delta-BHC	<0.096		<0.096		ug/L		NC	20
Di(2-ethylhexyl)adipate	<0.57		<0.58		ug/L		NC	20
Dibenz(a,h)anthracene	<0.048		<0.048		ug/L		NC	20
Diclorvos (DDVP)	<0.048		<0.048		ug/L		NC	20
Dieldrin	<0.0096		<0.0096		ug/L		NC	20
Diethylphthalate	<0.48		<0.48		ug/L		NC	20
Dimethylphthalate	<0.48		<0.48		ug/L		NC	20
Di-n-butyl phthalate	<0.96		<0.96		ug/L		NC	20
Di-n-octyl phthalate	<0.096		<0.096		ug/L		NC	20
Endosulfan I (Alpha)	<0.096		<0.096		ug/L		NC	20
Endosulfan II (Beta)	<0.096		<0.096		ug/L		NC	20
Endosulfan sulfate	<0.096		<0.096		ug/L		NC	20
Endrin	<0.0096		<0.0096		ug/L		NC	20
Endrin aldehyde	<0.096		<0.096		ug/L		NC	20
EPTC	<0.096		<0.096		ug/L		NC	20

QC Sample Results

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

Job ID: 380-216609-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: 380-216609-1 DU
Matrix: Water
Analysis Batch: 231634

Client Sample ID: HALAWA SHAFT VIEWING POOL
Prep Type: Total/NA
Prep Batch: 231285

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Fluoranthene	<0.096		<0.096		ug/L		NC	20
Fluorene	<0.048		<0.048		ug/L		NC	20
gamma-Chlordane	<0.048		<0.048		ug/L		NC	20
Heptachlor	<0.0096	^3+	<0.0096		ug/L		NC	20
Heptachlor epoxide (isomer B)	<0.0096	^3+	<0.0096		ug/L		NC	20
Hexachlorobenzene	<0.048		<0.048		ug/L		NC	20
Hexachlorocyclopentadiene	<0.048		<0.048		ug/L		NC	20
Indeno[1,2,3-cd]pyrene	<0.048		<0.048		ug/L		NC	20
Isophorone	<0.096		<0.096		ug/L		NC	20
Lindane	<0.0096		<0.0096		ug/L		NC	20
Malathion	<0.096		<0.096		ug/L		NC	20
Methoxychlor	<0.048	^3+	<0.048		ug/L		NC	20
Metolachlor	<0.048		<0.048		ug/L		NC	20
Molinate	<0.096		<0.096		ug/L		NC	20
Naphthalene	<0.096		<0.096		ug/L		NC	20
Parathion	<0.096		<0.096		ug/L		NC	20
Pendimethalin (Penoxaline)	<0.096		<0.096		ug/L		NC	20
Phenanthrene	<0.038		<0.039		ug/L		NC	20
Propachlor	<0.048	^3+	<0.048		ug/L		NC	20
Pyrene	<0.048		<0.048		ug/L		NC	20
Simazine	<0.048		<0.048		ug/L		NC	20
Terbacil	<0.096		<0.096		ug/L		NC	20
Terbutylazine	<0.096		<0.096		ug/L		NC	20
Thiobencarb	<0.096		<0.096		ug/L		NC	20
Total Permethrin (mixed isomers)	<0.19		<0.19		ug/L		NC	20
trans-Nonachlor	<0.048		<0.048		ug/L		NC	20
Trifluralin	<0.096		<0.096		ug/L		NC	20

Surrogate	DU	DU	Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	96		70 - 130
Perylene-d12	95		70 - 130
Triphenylphosphate	108		70 - 130

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

Lab Sample ID: MB 570-746664/1-A
Matrix: Water
Analysis Batch: 749030

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 746664

Tentatively Identified Compound	MB	MB	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
	Est. Result	Qualifier							
Tentatively Identified Compound	None		ug/L			N/A	05/31/26 08:21	06/04/26 11:39	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4,6-Tribromophenol (Surr)	106		33 - 139	05/31/26 08:21	06/04/26 11:39	1
2-Fluorobiphenyl (Surr)	89		33 - 126	05/31/26 08:21	06/04/26 11:39	1
2-Fluorophenol (Surr)	60		12 - 120	05/31/26 08:21	06/04/26 11:39	1
Nitrobenzene-d5 (Surr)	108		36 - 120	05/31/26 08:21	06/04/26 11:39	1
Phenol-d6 (Surr)	37		10 - 120	05/31/26 08:21	06/04/26 11:39	1

Eurofins Pomona

QC Sample Results

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

Job ID: 380-216609-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MB 570-746664/1-A
Matrix: Water
Analysis Batch: 749030

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 746664

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>p</i> -Terphenyl-d14 (Surr)	92		47 - 131	05/31/26 08:21	06/04/26 11:39	1

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

Lab Sample ID: MB 570-746664/1-A
Matrix: Water
Analysis Batch: 748206

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 746664

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.20		0.20	ug/L		05/31/26 08:21	06/03/26 07:55	1
2-Methylnaphthalene	<0.20		0.20	ug/L		05/31/26 08:21	06/03/26 07:55	1
Acenaphthene	<0.20		0.20	ug/L		05/31/26 08:21	06/03/26 07:55	1
Acenaphthylene	<0.20		0.20	ug/L		05/31/26 08:21	06/03/26 07:55	1
Anthracene	<0.20		0.20	ug/L		05/31/26 08:21	06/03/26 07:55	1
Benzo[a]anthracene	<0.20		0.20	ug/L		05/31/26 08:21	06/03/26 07:55	1
Benzo[a]pyrene	<0.20		0.20	ug/L		05/31/26 08:21	06/03/26 07:55	1
Benzo[b]fluoranthene	<0.20		0.20	ug/L		05/31/26 08:21	06/03/26 07:55	1
Benzo[g,h,i]perylene	<0.20		0.20	ug/L		05/31/26 08:21	06/03/26 07:55	1
Benzo[k]fluoranthene	<0.20		0.20	ug/L		05/31/26 08:21	06/03/26 07:55	1
Chrysene	<0.20		0.20	ug/L		05/31/26 08:21	06/03/26 07:55	1
Dibenz(a,h)anthracene	<0.20		0.20	ug/L		05/31/26 08:21	06/03/26 07:55	1
Fluoranthene	<0.20		0.20	ug/L		05/31/26 08:21	06/03/26 07:55	1
Fluorene	<0.20		0.20	ug/L		05/31/26 08:21	06/03/26 07:55	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20	ug/L		05/31/26 08:21	06/03/26 07:55	1
Naphthalene	<0.20		0.20	ug/L		05/31/26 08:21	06/03/26 07:55	1
Phenanthrene	<0.20		0.20	ug/L		05/31/26 08:21	06/03/26 07:55	1
Pyrene	<0.20		0.20	ug/L		05/31/26 08:21	06/03/26 07:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	85		28 - 127	05/31/26 08:21	06/03/26 07:55	1
2-Fluorobiphenyl (Surr)	83		31 - 120	05/31/26 08:21	06/03/26 07:55	1
2-Fluorophenol (Surr)	49		17 - 120	05/31/26 08:21	06/03/26 07:55	1
Nitrobenzene-d5 (Surr)	80		27 - 120	05/31/26 08:21	06/03/26 07:55	1
Phenol-d6 (Surr)	31		10 - 120	05/31/26 08:21	06/03/26 07:55	1
<i>p</i> -Terphenyl-d14 (Surr)	78		45 - 120	05/31/26 08:21	06/03/26 07:55	1

Lab Sample ID: LCS 570-746664/2-A
Matrix: Water
Analysis Batch: 748206

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 746664

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	20.0	13.7		ug/L		69	47 - 120
2-Methylnaphthalene	20.0	12.3		ug/L		61	43 - 120
Acenaphthene	20.0	15.6		ug/L		78	60 - 132
Acenaphthylene	20.0	15.5		ug/L		77	54 - 126
Anthracene	20.0	15.2		ug/L		76	43 - 120
Benzo[a]anthracene	20.0	14.3		ug/L		71	42 - 133
Benzo[a]pyrene	20.0	15.1		ug/L		75	32 - 148

QC Sample Results

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

Job ID: 380-216609-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCS 570-746664/2-A
Matrix: Water
Analysis Batch: 748206

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 746664

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzo[b]fluoranthene	20.0	14.1		ug/L		71	42 - 140
Benzo[g,h,i]perylene	20.0	13.9		ug/L		69	1 - 195
Benzo[k]fluoranthene	20.0	14.2		ug/L		71	25 - 146
Chrysene	20.0	13.5		ug/L		68	44 - 140
Dibenz(a,h)anthracene	20.0	15.2		ug/L		76	1 - 200
Fluoranthene	20.0	15.7		ug/L		78	43 - 121
Fluorene	20.0	15.7		ug/L		78	70 - 120
Indeno[1,2,3-cd]pyrene	20.0	14.6		ug/L		73	1 - 151
Naphthalene	20.0	12.9		ug/L		65	36 - 120
Phenanthrene	20.0	15.2		ug/L		76	65 - 120
Pyrene	20.0	14.4		ug/L		72	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	LCS Limits
2,4,6-Tribromophenol (Surr)	73		28 - 127
2-Fluorobiphenyl (Surr)	75		31 - 120
2-Fluorophenol (Surr)	50		17 - 120
Nitrobenzene-d5 (Surr)	64		27 - 120
Phenol-d6 (Surr)	34		10 - 120
p-Terphenyl-d14 (Surr)	70		45 - 120

Lab Sample ID: LCSD 570-746664/3-A
Matrix: Water
Analysis Batch: 748206

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 746664

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	20.0	13.0		ug/L		65	47 - 120	6	20
2-Methylnaphthalene	20.0	11.1		ug/L		56	43 - 120	10	20
Acenaphthene	20.0	15.2		ug/L		76	60 - 132	3	29
Acenaphthylene	20.0	14.9		ug/L		75	54 - 126	4	45
Anthracene	20.0	14.4		ug/L		72	43 - 120	5	40
Benzo[a]anthracene	20.0	15.4		ug/L		77	42 - 133	8	32
Benzo[a]pyrene	20.0	16.3		ug/L		82	32 - 148	8	43
Benzo[b]fluoranthene	20.0	15.6		ug/L		78	42 - 140	10	43
Benzo[g,h,i]perylene	20.0	15.7		ug/L		79	1 - 195	12	61
Benzo[k]fluoranthene	20.0	15.7		ug/L		79	25 - 146	10	38
Chrysene	20.0	15.1		ug/L		76	44 - 140	11	53
Dibenz(a,h)anthracene	20.0	17.0		ug/L		85	1 - 200	11	75
Fluoranthene	20.0	15.0		ug/L		75	43 - 121	4	40
Fluorene	20.0	15.2		ug/L		76	70 - 120	3	23
Indeno[1,2,3-cd]pyrene	20.0	16.0		ug/L		80	1 - 151	9	60
Naphthalene	20.0	11.9		ug/L		60	36 - 120	8	39
Phenanthrene	20.0	15.2		ug/L		76	65 - 120	0	24
Pyrene	20.0	15.6		ug/L		78	70 - 120	8	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
2,4,6-Tribromophenol (Surr)	69		28 - 127
2-Fluorobiphenyl (Surr)	72		31 - 120
2-Fluorophenol (Surr)	47		17 - 120

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QC Sample Results

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

Job ID: 380-216609-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCSD 570-746664/3-A
Matrix: Water
Analysis Batch: 748206

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 746664

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
Nitrobenzene-d5 (Surr)	61		27 - 120
Phenol-d6 (Surr)	33		10 - 120
p-Terphenyl-d14 (Surr)	74		45 - 120

Lab Sample ID: 380-216586-A-1-A MS
Matrix: Water
Analysis Batch: 748206

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 746664

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	%Rec Limits
				Result	Qualifier				
1-Methylnaphthalene	<0.19		19.6	14.6		ug/L		74	36 - 120
2-Methylnaphthalene	<0.19		19.6	13.0		ug/L		66	32 - 124
Acenaphthene	<0.19		19.6	16.6		ug/L		85	47 - 145
Acenaphthylene	<0.19		19.6	16.5		ug/L		84	33 - 145
Anthracene	<0.19		19.6	15.4		ug/L		78	27 - 133
Benzo[a]anthracene	<0.19		19.6	16.3		ug/L		83	33 - 143
Benzo[a]pyrene	<0.19		19.6	17.7		ug/L		90	17 - 163
Benzo[b]fluoranthene	<0.19		19.6	16.6		ug/L		84	24 - 159
Benzo[g,h,i]perylene	<0.19		19.6	16.6		ug/L		85	1 - 219
Benzo[k]fluoranthene	<0.19		19.6	16.4		ug/L		84	11 - 162
Chrysene	<0.19		19.6	16.5		ug/L		84	17 - 168
Dibenz(a,h)anthracene	<0.19		19.6	17.8		ug/L		90	1 - 227
Fluoranthene	<0.19		19.6	16.2		ug/L		83	26 - 137
Fluorene	<0.19		19.6	16.9		ug/L		86	59 - 121
Indeno[1,2,3-cd]pyrene	<0.19		19.6	17.2		ug/L		88	1 - 171
Naphthalene	<0.19		19.6	13.6		ug/L		69	21 - 133
Phenanthrene	<0.19		19.6	16.5		ug/L		84	54 - 120
Pyrene	<0.19		19.6	17.1		ug/L		87	52 - 120

Surrogate	MS		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	80		28 - 127
2-Fluorobiphenyl (Surr)	79		31 - 120
2-Fluorophenol (Surr)	54		17 - 120
Nitrobenzene-d5 (Surr)	69		27 - 120
Phenol-d6 (Surr)	37		10 - 120
p-Terphenyl-d14 (Surr)	78		45 - 120

Lab Sample ID: 380-216586-A-1-B MSD
Matrix: Water
Analysis Batch: 748206

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 746664

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
				Result	Qualifier						
1-Methylnaphthalene	<0.19		19.6	14.8		ug/L		75	36 - 120	1	30
2-Methylnaphthalene	<0.19		19.6	13.1		ug/L		67	32 - 124	1	30
Acenaphthene	<0.19		19.6	16.6		ug/L		85	47 - 145	0	48
Acenaphthylene	<0.19		19.6	16.7		ug/L		85	33 - 145	1	74
Anthracene	<0.19		19.6	15.8		ug/L		81	27 - 133	3	66
Benzo[a]anthracene	<0.19		19.6	17.6		ug/L		90	33 - 143	8	53
Benzo[a]pyrene	<0.19		19.6	18.6		ug/L		95	17 - 163	5	72

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QC Sample Results

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

Job ID: 380-216609-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: 380-216586-A-1-B MSD
Matrix: Water
Analysis Batch: 748206

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 746664

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec		RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD		
Benzo[b]fluoranthene	<0.19		19.6	17.7		ug/L		90	24 - 159	7	71	
Benzo[g,h,i]perylene	<0.19		19.6	17.3		ug/L		88	1 - 219	4	97	
Benzo[k]fluoranthene	<0.19		19.6	17.5		ug/L		89	11 - 162	6	63	
Chrysene	<0.19		19.6	16.8		ug/L		86	17 - 168	2	87	
Dibenz(a,h)anthracene	<0.19		19.6	18.6		ug/L		95	1 - 227	4	126	
Fluoranthene	<0.19		19.6	16.3		ug/L		83	26 - 137	0	66	
Fluorene	<0.19		19.6	16.7		ug/L		85	59 - 121	1	38	
Indeno[1,2,3-cd]pyrene	<0.19		19.6	17.7		ug/L		90	1 - 171	2	99	
Naphthalene	<0.19		19.6	13.7		ug/L		70	21 - 133	0	65	
Phenanthrene	<0.19		19.6	17.1		ug/L		87	54 - 120	4	39	
Pyrene	<0.19		19.6	18.1		ug/L		92	52 - 120	6	49	

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	77		28 - 127
2-Fluorobiphenyl (Surr)	83		31 - 120
2-Fluorophenol (Surr)	57		17 - 120
Nitrobenzene-d5 (Surr)	69		27 - 120
Phenol-d6 (Surr)	39		10 - 120
p-Terphenyl-d14 (Surr)	81		45 - 120

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

Lab Sample ID: MB 570-750190/6
Matrix: Water
Analysis Batch: 750190

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			06/06/26 13:51	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		38 - 134		06/06/26 13:51	1

Lab Sample ID: LCS 570-750190/3
Matrix: Water
Analysis Batch: 750190

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	404		ug/L		101	78 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		38 - 134

QC Sample Results

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

Job ID: 380-216609-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCSD 570-750190/4
Matrix: Water
Analysis Batch: 750190

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	424		ug/L		106	78 - 120	5	10
Surrogate		LCS	D			%Rec			
4-Bromofluorobenzene (Surr)		98							38 - 134

Lab Sample ID: MRL 570-750190/5
Matrix: Water
Analysis Batch: 750190

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	14.0		ug/L		140	50 - 150
Surrogate		MRL				%Rec	
4-Bromofluorobenzene (Surr)		99					38 - 134

Lab Sample ID: 380-216586-B-1 MS
Matrix: Water
Analysis Batch: 750190

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	402		ug/L		101	68 - 122
Surrogate				MS				%Rec	
4-Bromofluorobenzene (Surr)				100					38 - 134

Lab Sample ID: 380-216586-B-1 MSD
Matrix: Water
Analysis Batch: 750190

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	399		ug/L		100	68 - 122	1	18
Surrogate				MSD				%Rec			
4-Bromofluorobenzene (Surr)				89					38 - 134		

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

Lab Sample ID: MB 570-747016/1-A
Matrix: Water
Analysis Batch: 750788

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 747016

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<25		25	ug/L		06/01/26 09:03	06/08/26 11:46	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		06/01/26 09:03	06/08/26 11:46	1
C8-C18	<25		25	ug/L		06/01/26 09:03	06/08/26 11:46	1

Eurofins Pomona

QC Sample Results

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

Job ID: 380-216609-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>n</i> -Octacosane (Surr)	103		60 - 130	06/01/26 09:03	06/08/26 11:46	1

Lab Sample ID: LCS 570-747016/2-A
Matrix: Water
Analysis Batch: 750788

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 747016

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
C10-C28	1600	1720		ug/L		108	56 - 127

Surrogate	LCS %Recovery	LCS Qualifier	Limits
<i>n</i> -Octacosane (Surr)	108		60 - 130

Lab Sample ID: LCSD 570-747016/3-A
Matrix: Water
Analysis Batch: 750788

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 747016

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
C10-C28	1600	1680		ug/L		105	56 - 127	2	23

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
<i>n</i> -Octacosane (Surr)	109		60 - 130

Lab Sample ID: MRL 570-747016/4-A
Matrix: Water
Analysis Batch: 750788

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 747016

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
C10-C28	0.0200	0.0311	^3+	mg/L		156	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
<i>n</i> -Octacosane (Surr)	98		60 - 130

Lab Sample ID: 380-216586-C-1-A MS
Matrix: Water
Analysis Batch: 750788

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 747016

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
C10-C28	<25	^3+	1650	1800		ug/L		109	70 - 130

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

Lab Sample ID: 380-216586-C-1-B MSD
Matrix: Water
Analysis Batch: 750788

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 747016

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
C10-C28	<25	^3+	1660	1720		ug/L		104	70 - 130	5	20

QC Sample Results

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

Job ID: 380-216609-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: 380-216586-C-1-B MSD
Matrix: Water
Analysis Batch: 750788

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 747016

<i>Surrogate</i>	<i>%Recovery</i>	<i>MSD MSD Qualifier</i>	<i>Limits</i>
<i>n-Octacosane (Surr)</i>	102		60 - 130

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QC Association Summary

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

Job ID: 380-216609-1
SDG: Weekly: Halawa Shaft Viewing Pool

GC/MS Semi VOA

Prep Batch: 231285

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-216609-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	525.2	
MB 380-231285/21-A	Method Blank	Total/NA	Water	525.2	
LCS 380-231285/23-A	Lab Control Sample	Total/NA	Water	525.2	
MRL 380-231285/22-A	Lab Control Sample	Total/NA	Water	525.2	
380-216594-I-1-A MS	Matrix Spike	Total/NA	Water	525.2	
380-216609-1 DU	HALAWA SHAFT VIEWING POOL	Total/NA	Water	525.2	

Analysis Batch: 231634

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-216609-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	525.2	231285
MB 380-231285/21-A	Method Blank	Total/NA	Water	525.2	231285
LCS 380-231285/23-A	Lab Control Sample	Total/NA	Water	525.2	231285
MRL 380-231285/22-A	Lab Control Sample	Total/NA	Water	525.2	231285
380-216594-I-1-A MS	Matrix Spike	Total/NA	Water	525.2	231285
380-216609-1 DU	HALAWA SHAFT VIEWING POOL	Total/NA	Water	525.2	231285

Prep Batch: 746664

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-216609-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	625.1	
MB 570-746664/1-A	Method Blank	Total/NA	Water	625.1	
LCS 570-746664/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 570-746664/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	
380-216586-A-1-A MS	Matrix Spike	Total/NA	Water	625.1	
380-216586-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	625.1	

Analysis Batch: 748206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-216609-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	625.1 SIM	746664
MB 570-746664/1-A	Method Blank	Total/NA	Water	625.1 SIM	746664
LCS 570-746664/2-A	Lab Control Sample	Total/NA	Water	625.1 SIM	746664
LCSD 570-746664/3-A	Lab Control Sample Dup	Total/NA	Water	625.1 SIM	746664
380-216586-A-1-A MS	Matrix Spike	Total/NA	Water	625.1 SIM	746664
380-216586-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	625.1 SIM	746664

Analysis Batch: 749030

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-216609-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	625.1	746664
MB 570-746664/1-A	Method Blank	Total/NA	Water	625.1	746664

GC VOA

Analysis Batch: 750190

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-216609-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	8015B GRO LL	
380-216609-2	TB: HALAWA SHAFT VIEWING POOL	Total/NA	Water	8015B GRO LL	
MB 570-750190/6	Method Blank	Total/NA	Water	8015B GRO LL	
LCS 570-750190/3	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-750190/4	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	
MRL 570-750190/5	Lab Control Sample	Total/NA	Water	8015B GRO LL	
380-216586-B-1 MS	Matrix Spike	Total/NA	Water	8015B GRO LL	
380-216586-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8015B GRO LL	

Eurofins Pomona

QC Association Summary

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

Job ID: 380-216609-1
 SDG: Weekly: Halawa Shaft Viewing Pool

GC Semi VOA

Prep Batch: 747016

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-216609-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	3510C	
MB 570-747016/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-747016/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-747016/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-747016/4-A	Lab Control Sample	Total/NA	Water	3510C	
380-216586-C-1-A MS	Matrix Spike	Total/NA	Water	3510C	
380-216586-C-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

Analysis Batch: 750788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-216609-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	8015B	747016
MB 570-747016/1-A	Method Blank	Total/NA	Water	8015B	747016
LCS 570-747016/2-A	Lab Control Sample	Total/NA	Water	8015B	747016
LCSD 570-747016/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	747016
MRL 570-747016/4-A	Lab Control Sample	Total/NA	Water	8015B	747016
380-216586-C-1-A MS	Matrix Spike	Total/NA	Water	8015B	747016
380-216586-C-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	8015B	747016



Lab Chronicle

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

Job ID: 380-216609-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: HALAWA SHAFT VIEWING POOL

Lab Sample ID: 380-216609-1

Date Collected: 05/26/26 09:15

Matrix: Water

Date Received: 05/28/26 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			231285	OTM3	EA POM	06/03/26 07:39
Total/NA	Analysis	525.2		1	231634	Q8LA	EA POM	06/04/26 14:20
Total/NA	Prep	625.1			746664	KLZQ	EET CAL 4	05/31/26 08:21
Total/NA	Analysis	625.1		1	749030	PQS1	EET CAL 4	06/04/26 14:28
Total/NA	Prep	625.1			746664	KLZQ	EET CAL 4	05/31/26 08:21
Total/NA	Analysis	625.1 SIM		1	748206	PQS1	EET CAL 4	06/03/26 14:05
Total/NA	Analysis	8015B GRO LL		1	750190	A9VE	EET CAL 4	06/06/26 22:14
Total/NA	Prep	3510C			747016	TVD6	EET CAL 4	06/01/26 09:04
Total/NA	Analysis	8015B		1	750788	NR	EET CAL 4	06/08/26 15:42

Client Sample ID: TB: HALAWA SHAFT VIEWING POOL

Lab Sample ID: 380-216609-2

Date Collected: 05/26/26 09:15

Matrix: Water

Date Received: 05/28/26 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	750190	A9VE	EET CAL 4	06/06/26 19:08

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: 380-216609-1
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 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	11-17-26
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: 380-216609-1
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	09-30-26
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: 380-216609-1
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: 380-216609-1
SDG: Weekly: Halawa Shaft Viewing Pool

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
380-216609-1	HALAWA SHAFT VIEWING POOL	Water	05/26/26 09:15	05/28/26 10:10	Hawaii
380-216609-2	TB: HALAWA SHAFT VIEWING POOL	Water	05/26/26 09:15	05/28/26 10:10	Hawaii

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

SHIP DATE: 27MAY26
ACTWGT 62.00 LB
CAD- 258050552/NET4535

BILL RECIPIENT

TO EUOFINS RECEIVING DEPARTMENT
EUOFINS DRINKING WATER TESTING
941 CORPORATE CENTER DR

58K13/A906/484B

POMONA CA 91768

(626) 386-1100 REF:

INV#

PC:

DEPT



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THU - 28 MAY 10:30A

PRIORITY OVERNIGHT

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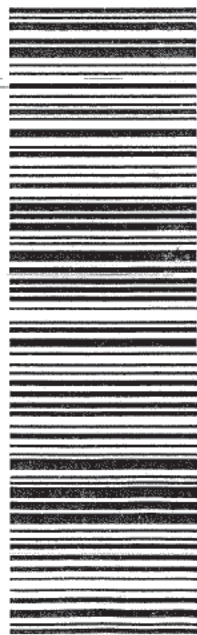
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Mark Vercator 5/29/26 1003

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Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-216609-1
SDG Number: Weekly: Halawa Shaft Viewing Pool

Login Number: 216609

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: 380-216609-1
SDG Number: Weekly: Halawa Shaft Viewing Pool

Login Number: 216609

List Number: 2

Creator: Khana, Piyush

List Source: Eurofins Calscience

List Creation: 05/29/26 03:51 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	1.4
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 <math><6\text{mm}</math> (1/4").	True	fgf5
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-216609-1
SDG Number: Weekly: Halawa Shaft Viewing Pool

Login Number: 216609

List Number: 3

Creator: Khana, Piyush

List Source: Eurofins Calscience

List Creation: 05/29/26 07:10 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	2.3
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	