

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 1/20/2026 5:06:37 PM

JOB DESCRIPTION

RED-HILL
Weekly: Halawa Shaft Viewing Pool

JOB NUMBER

380-191262-1

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)386-1100

Generated
1/20/2026 5:06:37 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	29
Lab Chronicle	31
Certification Summary	32
Method Summary	34
Sample Summary	35
Chain of Custody	36
Receipt Checklists	38



Definitions/Glossary

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

Job ID: 380-191262-1
SDG: Weekly: Halawa Shaft Viewing Pool

Qualifiers

GC/MS Semi VOA

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

GC/MS Semi VOA TICs

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

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: 380-191262-1

Job ID: 380-191262-1

Eurofins Pomona

Job Narrative 380-191262-1

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 1/8/2026 9:25 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.3°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

Method 8015B GRO LL: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-682005. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

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

Diesel Range Organics

Method 8015B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 570-681284. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

Method 8015B: The method reporting limit check (MRL) for preparation batch 570-681284 and analytical batch 570-682292 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.

Eurofins Pomona

Detection Summary

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

Job ID: 380-191262-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: Halawa Shaft Viewing Pool

Lab Sample ID: 380-191262-1

☐ No Detections.

Client Sample ID: TB: Halawa Shaft Viewing Pool

Lab Sample ID: 380-191262-2

☐ 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: 380-191262-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: Halawa Shaft Viewing Pool

Lab Sample ID: 380-191262-1

Date Collected: 01/06/26 09:25

Matrix: Water

Date Received: 01/08/26 09:25

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.098		0.098	ug/L		01/08/26 15:01	01/09/26 14:29	1
2,4'-DDD	<0.098		0.098	ug/L		01/08/26 15:01	01/09/26 14:29	1
2,4'-DDE	<0.098		0.098	ug/L		01/08/26 15:01	01/09/26 14:29	1
2,4'-DDT	<0.098		0.098	ug/L		01/08/26 15:01	01/09/26 14:29	1
2,4-Dinitrotoluene	<0.098		0.098	ug/L		01/08/26 15:01	01/09/26 14:29	1
2,6-Dinitrotoluene	<0.098		0.098	ug/L		01/08/26 15:01	01/09/26 14:29	1
2-Methylnaphthalene	<0.098		0.098	ug/L		01/08/26 15:01	01/09/26 14:29	1
4,4'-DDD	<0.098		0.098	ug/L		01/08/26 15:01	01/09/26 14:29	1
4,4'-DDE	<0.098		0.098	ug/L		01/08/26 15:01	01/09/26 14:29	1
4,4'-DDT	<0.098		0.098	ug/L		01/08/26 15:01	01/09/26 14:29	1
Acenaphthene	<0.098		0.098	ug/L		01/08/26 15:01	01/09/26 14:29	1
Acenaphthylene	<0.098		0.098	ug/L		01/08/26 15:01	01/09/26 14:29	1
Acetochlor	<0.098		0.098	ug/L		01/08/26 15:01	01/09/26 14:29	1
Alachlor	<0.049		0.049	ug/L		01/08/26 15:01	01/09/26 14:29	1
alpha-BHC	<0.098		0.098	ug/L		01/08/26 15:01	01/09/26 14:29	1
alpha-Chlordane	<0.049		0.049	ug/L		01/08/26 15:01	01/09/26 14:29	1
Anthracene	<0.020		0.020	ug/L		01/08/26 15:01	01/09/26 14:29	1
Atrazine	<0.049		0.049	ug/L		01/08/26 15:01	01/09/26 14:29	1
Benz(a)anthracene	<0.049		0.049	ug/L		01/08/26 15:01	01/09/26 14:29	1
Benzo[a]pyrene	<0.020		0.020	ug/L		01/08/26 15:01	01/09/26 14:29	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		01/08/26 15:01	01/09/26 14:29	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		01/08/26 15:01	01/09/26 14:29	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		01/08/26 15:01	01/09/26 14:29	1
beta-BHC	<0.098		0.098	ug/L		01/08/26 15:01	01/09/26 14:29	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		01/08/26 15:01	01/09/26 14:29	1
Bromacil	<0.098		0.098	ug/L		01/08/26 15:01	01/09/26 14:29	1
Butachlor	<0.049		0.049	ug/L		01/08/26 15:01	01/09/26 14:29	1
Butylbenzylphthalate	<0.49		0.49	ug/L		01/08/26 15:01	01/09/26 14:29	1
Chlorobenzilate	<0.098		0.098	ug/L		01/08/26 15:01	01/09/26 14:29	1
Chloroneb	<0.098		0.098	ug/L		01/08/26 15:01	01/09/26 14:29	1
Chlorothalonil (Draconil, Bravo)	<0.098		0.098	ug/L		01/08/26 15:01	01/09/26 14:29	1
Chlorpyrifos	<0.049		0.049	ug/L		01/08/26 15:01	01/09/26 14:29	1
Chrysene	<0.020		0.020	ug/L		01/08/26 15:01	01/09/26 14:29	1
delta-BHC	<0.098		0.098	ug/L		01/08/26 15:01	01/09/26 14:29	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		01/08/26 15:01	01/09/26 14:29	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		01/08/26 15:01	01/09/26 14:29	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		01/08/26 15:01	01/09/26 14:29	1
Dieldrin	<0.0098		0.0098	ug/L		01/08/26 15:01	01/09/26 14:29	1
Diethylphthalate	<0.49		0.49	ug/L		01/08/26 15:01	01/09/26 14:29	1
Dimethylphthalate	<0.49		0.49	ug/L		01/08/26 15:01	01/09/26 14:29	1
Di-n-butyl phthalate	<0.98		0.98	ug/L		01/08/26 15:01	01/09/26 14:29	1
Di-n-octyl phthalate	<0.098		0.098	ug/L		01/08/26 15:01	01/09/26 14:29	1
Endosulfan I (Alpha)	<0.098		0.098	ug/L		01/08/26 15:01	01/09/26 14:29	1
Endosulfan II (Beta)	<0.098		0.098	ug/L		01/08/26 15:01	01/09/26 14:29	1
Endosulfan sulfate	<0.098		0.098	ug/L		01/08/26 15:01	01/09/26 14:29	1
Endrin	<0.0098		0.0098	ug/L		01/08/26 15:01	01/09/26 14:29	1
Endrin aldehyde	<0.098		0.098	ug/L		01/08/26 15:01	01/09/26 14:29	1
EPTC	<0.098		0.098	ug/L		01/08/26 15:01	01/09/26 14:29	1
Fluoranthene	<0.098		0.098	ug/L		01/08/26 15:01	01/09/26 14:29	1

Eurofins Pomona

Client Sample Results

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

Job ID: 380-191262-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: Halawa Shaft Viewing Pool

Lab Sample ID: 380-191262-1

Date Collected: 01/06/26 09:25

Matrix: Water

Date Received: 01/08/26 09:25

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	<0.049		0.049	ug/L		01/08/26 15:01	01/09/26 14:29	1
gamma-Chlordane	<0.049		0.049	ug/L		01/08/26 15:01	01/09/26 14:29	1
Heptachlor	<0.0098		0.0098	ug/L		01/08/26 15:01	01/09/26 14:29	1
Heptachlor epoxide (isomer B)	<0.0098		0.0098	ug/L		01/08/26 15:01	01/09/26 14:29	1
Hexachlorobenzene	<0.049		0.049	ug/L		01/08/26 15:01	01/09/26 14:29	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		01/08/26 15:01	01/09/26 14:29	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		01/08/26 15:01	01/09/26 14:29	1
Isophorone	<0.098		0.098	ug/L		01/08/26 15:01	01/09/26 14:29	1
Lindane	<0.0098		0.0098	ug/L		01/08/26 15:01	01/09/26 14:29	1
Malathion	<0.098		0.098	ug/L		01/08/26 15:01	01/09/26 14:29	1
Methoxychlor	<0.049		0.049	ug/L		01/08/26 15:01	01/09/26 14:29	1
Metolachlor	<0.049		0.049	ug/L		01/08/26 15:01	01/09/26 14:29	1
Molinate	<0.098		0.098	ug/L		01/08/26 15:01	01/09/26 14:29	1
Naphthalene	<0.098		0.098	ug/L		01/08/26 15:01	01/09/26 14:29	1
Parathion	<0.098		0.098	ug/L		01/08/26 15:01	01/09/26 14:29	1
Pendimethalin (Penoxaline)	<0.098		0.098	ug/L		01/08/26 15:01	01/09/26 14:29	1
Phenanthrene	<0.039		0.039	ug/L		01/08/26 15:01	01/09/26 14:29	1
Propachlor	<0.049		0.049	ug/L		01/08/26 15:01	01/09/26 14:29	1
Pyrene	<0.049		0.049	ug/L		01/08/26 15:01	01/09/26 14:29	1
Simazine	<0.049		0.049	ug/L		01/08/26 15:01	01/09/26 14:29	1
Terbacil	<0.098		0.098	ug/L		01/08/26 15:01	01/09/26 14:29	1
Terbutylazine	<0.098		0.098	ug/L		01/08/26 15:01	01/09/26 14:29	1
Thiobencarb	<0.098		0.098	ug/L		01/08/26 15:01	01/09/26 14:29	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		01/08/26 15:01	01/09/26 14:29	1
trans-Nonachlor	<0.049		0.049	ug/L		01/08/26 15:01	01/09/26 14:29	1
Trifluralin	<0.098		0.098	ug/L		01/08/26 15:01	01/09/26 14:29	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	01/08/26 15:01	01/09/26 14:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	96		70 - 130	01/08/26 15:01	01/09/26 14:29	1
Perylene-d12	87		70 - 130	01/08/26 15:01	01/09/26 14:29	1
Triphenylphosphate	102		70 - 130	01/08/26 15:01	01/09/26 14:29	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		01/09/26 08:24	01/13/26 17:31	1
2-Methylnaphthalene	<0.19		0.19	ug/L		01/09/26 08:24	01/13/26 17:31	1
Acenaphthene	<0.19		0.19	ug/L		01/09/26 08:24	01/13/26 17:31	1
Acenaphthylene	<0.19		0.19	ug/L		01/09/26 08:24	01/13/26 17:31	1
Anthracene	<0.19		0.19	ug/L		01/09/26 08:24	01/13/26 17:31	1
Benzo[a]anthracene	<0.19		0.19	ug/L		01/09/26 08:24	01/13/26 17:31	1
Benzo[a]pyrene	<0.19		0.19	ug/L		01/09/26 08:24	01/13/26 17:31	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		01/09/26 08:24	01/13/26 17:31	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		01/09/26 08:24	01/13/26 17:31	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		01/09/26 08:24	01/13/26 17:31	1
Chrysene	<0.19		0.19	ug/L		01/09/26 08:24	01/13/26 17:31	1
Dibenz(a,h)anthracene	<0.19		0.19	ug/L		01/09/26 08:24	01/13/26 17:31	1
Fluoranthene	<0.19		0.19	ug/L		01/09/26 08:24	01/13/26 17:31	1

Eurofins Pomona

Client Sample Results

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

Job ID: 380-191262-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: Halawa Shaft Viewing Pool

Lab Sample ID: 380-191262-1

Date Collected: 01/06/26 09:25

Matrix: Water

Date Received: 01/08/26 09:25

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		01/09/26 08:24	01/13/26 17:31	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		01/09/26 08:24	01/13/26 17:31	1
Naphthalene	<0.19		0.19	ug/L		01/09/26 08:24	01/13/26 17:31	1
Phenanthrene	<0.19		0.19	ug/L		01/09/26 08:24	01/13/26 17:31	1
Pyrene	<0.19		0.19	ug/L		01/09/26 08:24	01/13/26 17:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	62		28 - 127	01/09/26 08:24	01/13/26 17:31	1
2-Fluorobiphenyl (Surr)	63		31 - 120	01/09/26 08:24	01/13/26 17:31	1
2-Fluorophenol (Surr)	39		17 - 120	01/09/26 08:24	01/13/26 17:31	1
Nitrobenzene-d5 (Surr)	64		27 - 120	01/09/26 08:24	01/13/26 17:31	1
Phenol-d6 (Surr)	24		10 - 120	01/09/26 08:24	01/13/26 17:31	1
p-Terphenyl-d14 (Surr)	67		45 - 120	01/09/26 08:24	01/13/26 17:31	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	01/09/26 08:24	01/13/26 17:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	44		33 - 139	01/09/26 08:24	01/13/26 17:04	1
2-Fluorobiphenyl (Surr)	62		33 - 126	01/09/26 08:24	01/13/26 17:04	1
2-Fluorophenol (Surr)	37		12 - 120	01/09/26 08:24	01/13/26 17:04	1
Nitrobenzene-d5 (Surr)	66		36 - 120	01/09/26 08:24	01/13/26 17:04	1
Phenol-d6 (Surr)	24		10 - 120	01/09/26 08:24	01/13/26 17:04	1
p-Terphenyl-d14 (Surr)	67		47 - 131	01/09/26 08:24	01/13/26 17:04	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	<10		10	ug/L			01/10/26 20:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		38 - 134		01/10/26 20:01	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		01/12/26 11:16	01/14/26 18:27	1
Motor Oil Range Organics [C24-C36]	<26		26	ug/L		01/12/26 11:16	01/14/26 18:27	1
C8-C18	<26		26	ug/L		01/12/26 11:16	01/14/26 18:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	92		60 - 130	01/12/26 11:16	01/14/26 18:27	1

Client Sample ID: TB: Halawa Shaft Viewing Pool

Lab Sample ID: 380-191262-2

Date Collected: 01/06/26 09:25

Matrix: Water

Date Received: 01/08/26 09:25

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	<10		10	ug/L			01/14/26 01:05	1

Eurofins Pomona

Client Sample Results

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

Job ID: 380-191262-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: TB: Halawa Shaft Viewing Pool
Date Collected: 01/06/26 09:25
Date Received: 01/08/26 09:25

Lab Sample ID: 380-191262-2
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		38 - 134		01/14/26 01:05	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: 380-191262-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: Halawa Shaft Viewing Pool

Lab Sample ID: 380-191262-1

Compliance Check

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

Analyte	Result	Qualifier	Unit	EPAMCL	RL	Method	Prep Type
				Limit			
Alachlor	<0.049		ug/L	2	0.049	525.2	Total/NA
Atrazine	<0.049		ug/L	3	0.049	525.2	Total/NA
Benzo[a]pyrene	<0.020		ug/L	0.2	0.020	525.2	Total/NA
Bis(2-ethylhexyl) phthalate	<0.59		ug/L	6	0.59	525.2	Total/NA
Di(2-ethylhexyl)adipate	<0.59		ug/L	400	0.59	525.2	Total/NA
Endrin	<0.0098		ug/L	2	0.0098	525.2	Total/NA
Heptachlor	<0.0098		ug/L	0.4	0.0098	525.2	Total/NA
Heptachlor epoxide (isomer B)	<0.0098		ug/L	0.2	0.0098	525.2	Total/NA
Hexachlorobenzene	<0.049		ug/L	1	0.049	525.2	Total/NA
Hexachlorocyclopentadiene	<0.049		ug/L	50	0.049	525.2	Total/NA
Lindane	<0.0098		ug/L	0.2	0.0098	525.2	Total/NA
Methoxychlor	<0.049		ug/L	40	0.049	525.2	Total/NA
Simazine	<0.049		ug/L	4	0.049	525.2	Total/NA
Benzo[a]pyrene	<0.19		ug/L	0.2	0.19	625.1 SIM	Total/NA

Surrogate Summary

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

Job ID: 380-191262-1
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)
380-190826-S-1-A MS	Matrix Spike	96	94	106
380-190881-Z-1-A DU	Duplicate	97	91	104
380-191262-1	Halawa Shaft Viewing Pool	96	87	102
LCS 380-196476/22-A	Lab Control Sample	95	94	102
MB 380-196476/20-A	Method Blank	95	85	101
MRL 380-196476/21-A	Lab Control Sample	94	89	100

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)
380-191262-1	Halawa Shaft Viewing Pool	44	62	37	66	24	67
MB 570-680289/1-A	Method Blank	71	86	59	105	38	100

Surrogate Legend

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

FBP = 2-Fluorobiphenyl (Surr)

2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

PHL6 = Phenol-d6 (Surr)

TPHd14 = p-Terphenyl-d14 (Surr)

Method: 625.1 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)
380-191262-1	Halawa Shaft Viewing Pool	62	63	39	64	24	67
LCS 570-680289/2-A	Lab Control Sample	85	82	64	83	43	92
LCSD 570-680289/3-A	Lab Control Sample Dup	98	88	65	89	42	99
MB 570-680289/1-A	Method Blank	99	81	56	85	36	87

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: 380-191262-1
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)
380-191262-1	Halawa Shaft Viewing Pool	98
380-191262-2	TB: Halawa Shaft Viewing Pool	81
570-262565-N-1 MS	Matrix Spike	98
570-262565-O-1 MSD	Matrix Spike Duplicate	97
LCS 570-680870/1010	Lab Control Sample	96
LCS 570-682005/4	Lab Control Sample	100
LCSD 570-680870/11	Lab Control Sample Dup	94
LCSD 570-682005/5	Lab Control Sample Dup	91
MB 570-680870/12	Method Blank	83
MB 570-682005/8	Method Blank	94
MRL 570-680870/13	Lab Control Sample	88
MRL 570-682005/3	Lab Control Sample	91

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)
380-191262-1	Halawa Shaft Viewing Pool	92
LCS 570-681284/2-A	Lab Control Sample	112
LCSD 570-681284/3-A	Lab Control Sample Dup	115
MB 570-681284/1-A	Method Blank	119
MRL 570-681284/4-A	Lab Control Sample	109

Surrogate Legend

OTCSN = n-Octacosane (Surr)

QC Sample Results

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

Job ID: 380-191262-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MB 380-196476/20-A

Matrix: Water

Analysis Batch: 196656

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 196476

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.098		0.098	ug/L		01/08/26 15:01	01/09/26 10:29	1
2,4'-DDD	<0.098		0.098	ug/L		01/08/26 15:01	01/09/26 10:29	1
2,4'-DDE	<0.098		0.098	ug/L		01/08/26 15:01	01/09/26 10:29	1
2,4'-DDT	<0.098		0.098	ug/L		01/08/26 15:01	01/09/26 10:29	1
2,4-Dinitrotoluene	<0.098		0.098	ug/L		01/08/26 15:01	01/09/26 10:29	1
2,6-Dinitrotoluene	<0.098		0.098	ug/L		01/08/26 15:01	01/09/26 10:29	1
2-Methylnaphthalene	<0.098		0.098	ug/L		01/08/26 15:01	01/09/26 10:29	1
4,4'-DDD	<0.098		0.098	ug/L		01/08/26 15:01	01/09/26 10:29	1
4,4'-DDE	<0.098		0.098	ug/L		01/08/26 15:01	01/09/26 10:29	1
4,4'-DDT	<0.098		0.098	ug/L		01/08/26 15:01	01/09/26 10:29	1
Acenaphthene	<0.098		0.098	ug/L		01/08/26 15:01	01/09/26 10:29	1
Acenaphthylene	<0.098		0.098	ug/L		01/08/26 15:01	01/09/26 10:29	1
Acetochlor	<0.098		0.098	ug/L		01/08/26 15:01	01/09/26 10:29	1
Alachlor	<0.049		0.049	ug/L		01/08/26 15:01	01/09/26 10:29	1
alpha-BHC	<0.098		0.098	ug/L		01/08/26 15:01	01/09/26 10:29	1
alpha-Chlordane	<0.049		0.049	ug/L		01/08/26 15:01	01/09/26 10:29	1
Anthracene	<0.020		0.020	ug/L		01/08/26 15:01	01/09/26 10:29	1
Atrazine	<0.049		0.049	ug/L		01/08/26 15:01	01/09/26 10:29	1
Benz(a)anthracene	<0.049		0.049	ug/L		01/08/26 15:01	01/09/26 10:29	1
Benzo[a]pyrene	<0.020		0.020	ug/L		01/08/26 15:01	01/09/26 10:29	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		01/08/26 15:01	01/09/26 10:29	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		01/08/26 15:01	01/09/26 10:29	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		01/08/26 15:01	01/09/26 10:29	1
beta-BHC	<0.098		0.098	ug/L		01/08/26 15:01	01/09/26 10:29	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		01/08/26 15:01	01/09/26 10:29	1
Bromacil	<0.098		0.098	ug/L		01/08/26 15:01	01/09/26 10:29	1
Butachlor	<0.049		0.049	ug/L		01/08/26 15:01	01/09/26 10:29	1
Butylbenzylphthalate	<0.49		0.49	ug/L		01/08/26 15:01	01/09/26 10:29	1
Chlorobenzilate	<0.098		0.098	ug/L		01/08/26 15:01	01/09/26 10:29	1
Chloroneb	<0.098		0.098	ug/L		01/08/26 15:01	01/09/26 10:29	1
Chlorothalonil (Draconil, Bravo)	<0.098		0.098	ug/L		01/08/26 15:01	01/09/26 10:29	1
Chlorpyrifos	<0.049		0.049	ug/L		01/08/26 15:01	01/09/26 10:29	1
Chrysene	<0.020		0.020	ug/L		01/08/26 15:01	01/09/26 10:29	1
delta-BHC	<0.098		0.098	ug/L		01/08/26 15:01	01/09/26 10:29	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		01/08/26 15:01	01/09/26 10:29	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		01/08/26 15:01	01/09/26 10:29	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		01/08/26 15:01	01/09/26 10:29	1
Dieldrin	<0.0098		0.0098	ug/L		01/08/26 15:01	01/09/26 10:29	1
Diethylphthalate	<0.49		0.49	ug/L		01/08/26 15:01	01/09/26 10:29	1
Dimethylphthalate	<0.49		0.49	ug/L		01/08/26 15:01	01/09/26 10:29	1
Di-n-butyl phthalate	<0.98		0.98	ug/L		01/08/26 15:01	01/09/26 10:29	1
Di-n-octyl phthalate	<0.098		0.098	ug/L		01/08/26 15:01	01/09/26 10:29	1
Endosulfan I (Alpha)	<0.098		0.098	ug/L		01/08/26 15:01	01/09/26 10:29	1
Endosulfan II (Beta)	<0.098		0.098	ug/L		01/08/26 15:01	01/09/26 10:29	1
Endosulfan sulfate	<0.098		0.098	ug/L		01/08/26 15:01	01/09/26 10:29	1
Endrin	<0.0098		0.0098	ug/L		01/08/26 15:01	01/09/26 10:29	1
Endrin aldehyde	<0.098		0.098	ug/L		01/08/26 15:01	01/09/26 10:29	1
EPTC	<0.098		0.098	ug/L		01/08/26 15:01	01/09/26 10:29	1

Eurofins Pomona

QC Sample Results

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

Job ID: 380-191262-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MB 380-196476/20-A

Matrix: Water

Analysis Batch: 196656

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 196476

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.098		0.098	ug/L		01/08/26 15:01	01/09/26 10:29	1
Fluorene	<0.049		0.049	ug/L		01/08/26 15:01	01/09/26 10:29	1
gamma-Chlordane	<0.049		0.049	ug/L		01/08/26 15:01	01/09/26 10:29	1
Heptachlor	<0.0098		0.0098	ug/L		01/08/26 15:01	01/09/26 10:29	1
Heptachlor epoxide (isomer B)	<0.0098		0.0098	ug/L		01/08/26 15:01	01/09/26 10:29	1
Hexachlorobenzene	<0.049		0.049	ug/L		01/08/26 15:01	01/09/26 10:29	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		01/08/26 15:01	01/09/26 10:29	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		01/08/26 15:01	01/09/26 10:29	1
Isophorone	<0.098		0.098	ug/L		01/08/26 15:01	01/09/26 10:29	1
Lindane	<0.0098		0.0098	ug/L		01/08/26 15:01	01/09/26 10:29	1
Malathion	<0.098		0.098	ug/L		01/08/26 15:01	01/09/26 10:29	1
Methoxychlor	<0.049		0.049	ug/L		01/08/26 15:01	01/09/26 10:29	1
Metolachlor	<0.049		0.049	ug/L		01/08/26 15:01	01/09/26 10:29	1
Molinate	<0.098		0.098	ug/L		01/08/26 15:01	01/09/26 10:29	1
Naphthalene	<0.098		0.098	ug/L		01/08/26 15:01	01/09/26 10:29	1
Parathion	<0.098		0.098	ug/L		01/08/26 15:01	01/09/26 10:29	1
Pendimethalin (Penoxaline)	<0.098		0.098	ug/L		01/08/26 15:01	01/09/26 10:29	1
Phenanthrene	<0.039		0.039	ug/L		01/08/26 15:01	01/09/26 10:29	1
Propachlor	<0.049		0.049	ug/L		01/08/26 15:01	01/09/26 10:29	1
Pyrene	<0.049		0.049	ug/L		01/08/26 15:01	01/09/26 10:29	1
Simazine	<0.049		0.049	ug/L		01/08/26 15:01	01/09/26 10:29	1
Terbacil	<0.098		0.098	ug/L		01/08/26 15:01	01/09/26 10:29	1
Terbutylazine	<0.098		0.098	ug/L		01/08/26 15:01	01/09/26 10:29	1
Thiobencarb	<0.098		0.098	ug/L		01/08/26 15:01	01/09/26 10:29	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		01/08/26 15:01	01/09/26 10:29	1
trans-Nonachlor	<0.049		0.049	ug/L		01/08/26 15:01	01/09/26 10:29	1
Trifluralin	<0.098		0.098	ug/L		01/08/26 15:01	01/09/26 10:29	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Cyclopentene, 1,2,3,4,5-pentamethyl-	0.815	T J N	ug/L		2.53	1000154-28-6	01/08/26 15:01	01/09/26 10:29	1
Cyclotetrasiloxane, octamethyl-	0.743	T J N	ug/L		2.76	556-67-2	01/08/26 15:01	01/09/26 10:29	1
Unknown	0.830	T J	ug/L		2.99	N/A	01/08/26 15:01	01/09/26 10:29	1
Undecane	2.81	T J N	ug/L		3.13	1120-21-4	01/08/26 15:01	01/09/26 10:29	1
Cyclopentasiloxane, decamethyl-	0.854	T J N	ug/L		3.26	541-02-6	01/08/26 15:01	01/09/26 10:29	1
Cyclohexasiloxane, dodecamethyl-	0.935	T J N	ug/L		3.88	540-97-6	01/08/26 15:01	01/09/26 10:29	1
Phenol, 4-(1,1-dimethylpropyl)-	0.626	T J N	ug/L		4.27	80-46-6	01/08/26 15:01	01/09/26 10:29	1
9-Octadecenamide, (Z)-	4.20	T J N	ug/L		7.94	301-02-0	01/08/26 15:01	01/09/26 10:29	1
13-Docosenamide, (Z)-	2.32	T J N	ug/L		10.50	112-84-5	01/08/26 15:01	01/09/26 10:29	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	95		70 - 130	01/08/26 15:01	01/09/26 10:29	1
Perylene-d12	85		70 - 130	01/08/26 15:01	01/09/26 10:29	1
Triphenylphosphate	101		70 - 130	01/08/26 15:01	01/09/26 10:29	1

Eurofins Pomona

QC Sample Results

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

Job ID: 380-191262-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCS 380-196476/22-A

Matrix: Water

Analysis Batch: 196656

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 196476

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	1.95	1.86		ug/L		95	70 - 130
2,4'-DDD	1.95	1.90		ug/L		98	70 - 130
2,4'-DDE	1.95	2.07		ug/L		107	70 - 130
2,4'-DDT	1.95	1.79		ug/L		92	70 - 130
2,4-Dinitrotoluene	1.95	1.76		ug/L		90	70 - 130
2,6-Dinitrotoluene	1.95	1.82		ug/L		93	70 - 130
2-Methylnaphthalene	1.95	1.84		ug/L		95	70 - 130
4,4'-DDD	1.95	1.82		ug/L		94	70 - 130
4,4'-DDE	1.95	2.23		ug/L		114	70 - 130
4,4'-DDT	1.95	1.80		ug/L		93	70 - 130
Acenaphthene	1.95	1.93		ug/L		99	70 - 130
Acenaphthylene	1.95	1.91		ug/L		98	70 - 130
Acetochlor	1.95	1.98		ug/L		101	70 - 130
Alachlor	1.95	2.24		ug/L		115	70 - 130
alpha-BHC	1.95	2.09		ug/L		107	70 - 130
alpha-Chlordane	1.95	1.83		ug/L		94	70 - 130
Anthracene	1.95	1.87		ug/L		96	70 - 130
Atrazine	1.95	2.04		ug/L		105	70 - 130
Benz(a)anthracene	1.95	1.83		ug/L		94	70 - 130
Benzo[a]pyrene	1.95	1.94		ug/L		100	70 - 130
Benzo[b]fluoranthene	1.95	2.04		ug/L		105	70 - 130
Benzo[g,h,i]perylene	1.95	1.88		ug/L		97	70 - 130
Benzo[k]fluoranthene	1.95	1.92		ug/L		98	70 - 130
beta-BHC	1.95	1.98		ug/L		102	70 - 130
Bis(2-ethylhexyl) phthalate	1.95	2.16		ug/L		111	70 - 130
Bromacil	1.95	1.80		ug/L		93	70 - 130
Butachlor	1.95	2.20		ug/L		113	70 - 130
Butylbenzylphthalate	1.95	2.10		ug/L		108	70 - 130
Chlorobenzilate	1.95	2.00		ug/L		103	70 - 130
Chloroneb	1.95	1.95		ug/L		100	70 - 130
Chlorothalonil (Draconil, Bravo)	1.95	1.91		ug/L		98	70 - 130
Chlorpyrifos	1.95	2.01		ug/L		103	70 - 130
Chrysene	1.95	1.84		ug/L		95	70 - 130
delta-BHC	1.95	2.09		ug/L		108	70 - 130
Di(2-ethylhexyl)adipate	1.95	2.22		ug/L		114	70 - 130
Dibenz(a,h)anthracene	1.95	1.85		ug/L		95	70 - 130
Diclorvos (DDVP)	1.95	2.21		ug/L		114	70 - 130
Dieldrin	1.95	2.05		ug/L		105	70 - 130
Diethylphthalate	1.95	2.14		ug/L		110	70 - 130
Dimethylphthalate	1.95	2.19		ug/L		113	70 - 130
Di-n-butyl phthalate	3.89	4.21		ug/L		108	70 - 130
Di-n-octyl phthalate	1.95	2.10		ug/L		108	70 - 130
Endosulfan I (Alpha)	1.95	1.89		ug/L		97	70 - 130
Endosulfan II (Beta)	1.95	1.98		ug/L		102	70 - 130
Endosulfan sulfate	1.95	1.86		ug/L		96	70 - 130
Endrin	1.95	2.10		ug/L		108	70 - 130
Endrin aldehyde	1.95	1.83		ug/L		94	60 - 130
EPTC	1.95	2.05		ug/L		105	70 - 130

Eurofins Pomona

QC Sample Results

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

Job ID: 380-191262-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCS 380-196476/22-A

Matrix: Water

Analysis Batch: 196656

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 196476

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoranthene	1.95	2.05		ug/L		106	70 - 130
Fluorene	1.95	2.13		ug/L		109	70 - 130
gamma-Chlordane	1.95	1.84		ug/L		95	70 - 130
Heptachlor	1.95	2.23		ug/L		115	70 - 130
Heptachlor epoxide (isomer B)	1.95	1.99		ug/L		102	70 - 130
Hexachlorobenzene	1.95	2.07		ug/L		106	70 - 130
Hexachlorocyclopentadiene	1.95	1.69		ug/L		87	70 - 130
Indeno[1,2,3-cd]pyrene	1.95	1.88		ug/L		96	70 - 130
Isophorone	1.95	1.87		ug/L		96	70 - 130
Lindane	1.95	2.01		ug/L		103	70 - 130
Malathion	1.95	2.04		ug/L		105	70 - 130
Methoxychlor	1.95	1.98		ug/L		101	70 - 130
Metolachlor	1.95	2.13		ug/L		109	70 - 130
Molinate	1.95	2.13		ug/L		109	70 - 130
Naphthalene	1.95	1.85		ug/L		95	70 - 130
Parathion	1.95	1.98		ug/L		102	70 - 130
Pendimethalin (Penoxaline)	1.95	1.71		ug/L		88	70 - 130
Phenanthrene	1.95	1.95		ug/L		100	70 - 130
Propachlor	1.95	2.25		ug/L		115	70 - 130
Pyrene	1.95	2.06		ug/L		106	70 - 130
Simazine	1.95	2.06		ug/L		106	70 - 130
Terbacil	1.95	1.98		ug/L		102	70 - 130
Terbutylazine	1.95	2.11		ug/L		108	70 - 130
Thiobencarb	1.95	2.11		ug/L		108	70 - 130
trans-Nonachlor	1.95	1.77		ug/L		91	70 - 130
Trifluralin	1.95	1.59		ug/L		82	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Nitro-m-xylene	95		70 - 130
Perylene-d12	94		70 - 130
Triphenylphosphate	102		70 - 130

Lab Sample ID: MRL 380-196476/21-A

Matrix: Water

Analysis Batch: 196656

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 196476

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	0.0986	0.104		ug/L		106	50 - 150
2,4'-DDD	0.0986	0.0815	J	ug/L		83	50 - 150
2,4'-DDE	0.0986	0.0882	J	ug/L		89	50 - 150
2,4'-DDT	0.0986	0.105		ug/L		106	50 - 150
2,4-Dinitrotoluene	0.0986	0.0991		ug/L		101	50 - 150
2,6-Dinitrotoluene	0.0986	0.130		ug/L		132	50 - 150
2-Methylnaphthalene	0.0986	0.0972	J	ug/L		99	50 - 150
4,4'-DDD	0.0986	0.0975	J	ug/L		99	50 - 150
4,4'-DDE	0.0986	0.0873	J	ug/L		89	50 - 150
4,4'-DDT	0.0986	0.101		ug/L		102	50 - 150
Acenaphthene	0.0986	0.0826	J	ug/L		84	50 - 150

Eurofins Pomona

QC Sample Results

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

Job ID: 380-191262-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MRL 380-196476/21-A

Matrix: Water

Analysis Batch: 196656

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 196476

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthylene	0.0986	0.0809	J	ug/L		82	50 - 150
Acetochlor	0.0986	0.109		ug/L		110	50 - 150
Alachlor	0.0493	0.0515		ug/L		105	50 - 150
alpha-BHC	0.0986	0.0928	J	ug/L		94	50 - 150
alpha-Chlordane	0.0246	<0.029		ug/L		107	50 - 150
Anthracene	0.0197	0.0232		ug/L		118	50 - 150
Atrazine	0.0493	0.0506		ug/L		103	50 - 150
Benz(a)anthracene	0.0493	0.0523		ug/L		106	50 - 150
Benzo[a]pyrene	0.0197	0.0226		ug/L		114	50 - 150
Benzo[b]fluoranthene	0.0197	0.0243		ug/L		123	50 - 150
Benzo[g,h,i]perylene	0.0493	0.0503		ug/L		102	50 - 150
Benzo[k]fluoranthene	0.0197	0.0252		ug/L		128	50 - 150
beta-BHC	0.0986	0.0974	J	ug/L		99	50 - 150
Bis(2-ethylhexyl) phthalate	0.591	0.623		ug/L		105	50 - 150
Bromacil	0.0986	0.112		ug/L		114	50 - 150
Butachlor	0.0493	0.0562		ug/L		114	50 - 150
Butylbenzylphthalate	0.493	0.503		ug/L		102	50 - 150
Chlorobenzilate	0.0986	0.0980	J	ug/L		99	50 - 150
Chloroneb	0.0986	0.104		ug/L		105	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0986	0.0961	J	ug/L		97	50 - 150
Chlorpyrifos	0.0493	0.0491		ug/L		100	50 - 150
Chrysene	0.0197	0.0211		ug/L		107	50 - 150
delta-BHC	0.0986	0.0851	J	ug/L		86	50 - 150
Di(2-ethylhexyl)adipate	0.591	0.648		ug/L		110	50 - 150
Dibenz(a,h)anthracene	0.0493	0.0661		ug/L		134	50 - 150
Diclorvos (DDVP)	0.0493	0.0509		ug/L		103	50 - 150
Dieldrin	0.00986	0.0104		ug/L		105	50 - 150
Diethylphthalate	0.493	0.503		ug/L		102	50 - 150
Dimethylphthalate	0.493	0.470	J	ug/L		95	50 - 150
Di-n-butyl phthalate	0.493	0.536	J	ug/L		109	49 - 243
Di-n-octyl phthalate	0.0986	0.109		ug/L		111	50 - 150
Endosulfan I (Alpha)	0.0986	0.0915	J	ug/L		93	50 - 150
Endosulfan II (Beta)	0.0986	0.104		ug/L		105	50 - 150
Endosulfan sulfate	0.0986	0.105		ug/L		106	50 - 150
Endrin	0.00986	0.00928	J	ug/L		94	50 - 150
Endrin aldehyde	0.0986	0.105		ug/L		107	50 - 150
EPTC	0.0986	0.103		ug/L		104	50 - 150
Fluoranthene	0.0986	0.0968	J	ug/L		98	50 - 150
Fluorene	0.0493	<0.049		ug/L		93	50 - 150
gamma-Chlordane	0.0246	0.0241	J	ug/L		98	50 - 150
Heptachlor	0.00986	0.00822	J	ug/L		83	50 - 150
Heptachlor epoxide (isomer B)	0.00986	0.00971	J	ug/L		99	50 - 150
Hexachlorobenzene	0.0493	0.0404	J	ug/L		82	50 - 150
Hexachlorocyclopentadiene	0.0493	0.0544		ug/L		110	50 - 150
Indeno[1,2,3-cd]pyrene	0.0493	0.0539		ug/L		109	50 - 150
Isophorone	0.0986	0.0992		ug/L		101	50 - 150
Lindane	0.00986	0.00861	J	ug/L		87	50 - 150
Malathion	0.0986	0.0984	J	ug/L		100	50 - 150
Methoxychlor	0.0493	0.0661		ug/L		134	50 - 150

Eurofins Pomona

QC Sample Results

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

Job ID: 380-191262-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MRL 380-196476/21-A

Matrix: Water

Analysis Batch: 196656

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 196476

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Metolachlor	0.0493	0.0491		ug/L		100	50 - 150
Molinate	0.0986	0.0929	J	ug/L		94	50 - 150
Naphthalene	0.0986	0.0883	J	ug/L		90	50 - 150
Parathion	0.0986	0.0916	J	ug/L		93	50 - 150
Pendimethalin (Penoxaline)	0.0986	0.0879	J	ug/L		89	50 - 150
Phenanthrene	0.0394	0.0411		ug/L		104	50 - 150
Propachlor	0.0493	0.0488	J	ug/L		99	50 - 150
Pyrene	0.0493	0.0504		ug/L		102	50 - 150
Simazine	0.0493	0.0471	J	ug/L		95	50 - 150
Terbacil	0.0986	0.0947	J	ug/L		96	50 - 150
Terbutylazine	0.0986	0.0987	J	ug/L		100	50 - 150
Thiobencarb	0.0986	0.0995		ug/L		101	50 - 150
trans-Nonachlor	0.0246	<0.026		ug/L		101	50 - 150
Trifluralin	0.0986	0.0924	J	ug/L		94	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
2-Nitro-m-xylene	94		70 - 130
Perylene-d12	89		70 - 130
Triphenylphosphate	100		70 - 130

Lab Sample ID: 380-190826-S-1-A MS

Matrix: Water

Analysis Batch: 196656

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 196476

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.10		2.00	1.92		ug/L		96	70 - 130
2,4'-DDD	<0.10		2.00	1.99		ug/L		100	70 - 130
2,4'-DDE	<0.10		2.00	2.19		ug/L		110	70 - 130
2,4'-DDT	<0.10		2.00	1.86		ug/L		93	70 - 130
2,4-Dinitrotoluene	<0.10		2.00	2.04		ug/L		102	70 - 130
2,6-Dinitrotoluene	<0.10		2.00	2.02		ug/L		101	70 - 130
2-Methylnaphthalene	<0.10		2.00	1.93		ug/L		96	70 - 130
4,4'-DDD	<0.10		2.00	1.91		ug/L		96	70 - 130
4,4'-DDE	<0.10		2.00	2.31		ug/L		116	70 - 130
4,4'-DDT	<0.10		2.00	1.86		ug/L		93	70 - 130
Acenaphthene	<0.10		2.00	1.99		ug/L		100	70 - 130
Acenaphthylene	<0.10		2.00	1.98		ug/L		99	70 - 130
Acetochlor	<0.10		2.00	2.07		ug/L		104	70 - 130
Alachlor	<0.051		2.00	2.33		ug/L		117	70 - 130
alpha-BHC	<0.10		2.00	2.13		ug/L		107	70 - 130
alpha-Chlordane	<0.051		2.00	1.92		ug/L		96	70 - 130
Anthracene	<0.020		2.00	1.49		ug/L		75	70 - 130
Atrazine	<0.051		2.00	2.10		ug/L		105	70 - 130
Benz(a)anthracene	<0.051		2.00	1.91		ug/L		96	70 - 130
Benzo[a]pyrene	<0.020		2.00	1.88		ug/L		94	70 - 130
Benzo[b]fluoranthene	<0.020		2.00	2.16		ug/L		108	70 - 130
Benzo[g,h,i]perylene	<0.051		2.00	2.02		ug/L		101	70 - 130
Benzo[k]fluoranthene	<0.020		2.00	2.01		ug/L		101	70 - 130

Eurofins Pomona

QC Sample Results

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

Job ID: 380-191262-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: 380-190826-S-1-A MS

Matrix: Water

Analysis Batch: 196656

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 196476

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
beta-BHC	<0.10		2.00	2.00		ug/L		100	70 - 130
Bis(2-ethylhexyl) phthalate	<0.61		2.00	2.10		ug/L		105	70 - 130
Bromacil	<0.10		2.00	2.01		ug/L		101	70 - 130
Butachlor	<0.051		2.00	2.28		ug/L		114	70 - 130
Butylbenzylphthalate	<0.51		2.00	2.26		ug/L		113	70 - 130
Chlorobenzilate	<0.10		2.00	2.05		ug/L		103	70 - 130
Chloroneb	<0.10		2.00	1.96		ug/L		98	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.10		2.00	1.97		ug/L		99	70 - 130
Chlorpyrifos	<0.051		2.00	2.01		ug/L		101	70 - 130
Chrysene	<0.020		2.00	1.91		ug/L		96	70 - 130
delta-BHC	<0.10		2.00	2.13		ug/L		107	70 - 130
Di(2-ethylhexyl)adipate	<0.61		2.00	2.22		ug/L		111	70 - 130
Dibenz(a,h)anthracene	<0.051		2.00	1.98		ug/L		99	70 - 130
Diclorvos (DDVP)	<0.051		2.00	2.29		ug/L		115	70 - 130
Dieldrin	<0.010		2.00	2.17		ug/L		109	70 - 130
Diethylphthalate	<0.51		2.00	2.19		ug/L		110	70 - 130
Dimethylphthalate	<0.51		2.00	2.24		ug/L		112	70 - 130
Di-n-butyl phthalate	<1.0		3.99	4.25		ug/L		106	70 - 130
Di-n-octyl phthalate	<0.10		2.00	2.04		ug/L		102	70 - 130
Endosulfan I (Alpha)	<0.10		2.00	2.00		ug/L		100	70 - 130
Endosulfan II (Beta)	<0.10		2.00	1.99		ug/L		100	70 - 130
Endosulfan sulfate	<0.10		2.00	1.93		ug/L		97	70 - 130
Endrin	<0.010		2.00	2.26		ug/L		113	70 - 130
Endrin aldehyde	<0.10		2.00	1.72		ug/L		86	60 - 130
EPTC	<0.10		2.00	2.11		ug/L		106	70 - 130
Fluoranthene	<0.10		2.00	2.12		ug/L		106	70 - 130
Fluorene	<0.051		2.00	2.18		ug/L		109	70 - 130
gamma-Chlordane	<0.051		2.00	1.99		ug/L		100	70 - 130
Heptachlor	<0.010		2.00	2.31		ug/L		116	70 - 130
Heptachlor epoxide (isomer B)	<0.010		2.00	2.08		ug/L		104	70 - 130
Hexachlorobenzene	<0.051		2.00	2.12		ug/L		106	70 - 130
Hexachlorocyclopentadiene	<0.051		2.00	1.73		ug/L		87	70 - 130
Indeno[1,2,3-cd]pyrene	<0.051		2.00	2.05		ug/L		103	70 - 130
Isophorone	<0.10		2.00	1.96		ug/L		98	70 - 130
Lindane	<0.010		2.00	2.02		ug/L		101	70 - 130
Malathion	<0.10		2.00	2.10		ug/L		105	70 - 130
Methoxychlor	<0.051		2.00	2.00		ug/L		100	70 - 130
Metolachlor	<0.051		2.00	2.20		ug/L		110	70 - 130
Molinate	<0.10		2.00	2.16		ug/L		108	70 - 130
Naphthalene	<0.10		2.00	1.91		ug/L		96	70 - 130
Parathion	<0.10		2.00	2.10		ug/L		105	70 - 130
Pendimethalin (Penoxaline)	<0.10		2.00	1.96		ug/L		98	70 - 130
Phenanthrene	<0.040		2.00	2.02		ug/L		101	70 - 130
Propachlor	<0.051		2.00	2.27		ug/L		114	70 - 130
Pyrene	<0.051		2.00	2.12		ug/L		107	70 - 130
Simazine	<0.051		2.00	2.16		ug/L		108	70 - 130
Terbacil	<0.10		2.00	2.06		ug/L		103	70 - 130
Terbutylazine	<0.10		2.00	2.14		ug/L		108	70 - 130
Thiobencarb	<0.10		2.00	2.17		ug/L		109	70 - 130

Eurofins Pomona

QC Sample Results

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

Job ID: 380-191262-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: 380-190826-S-1-A MS

Matrix: Water

Analysis Batch: 196656

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 196476

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
trans-Nonachlor	<0.051		2.00	1.88		ug/L		94	70 - 130
Trifluralin	<0.10		2.00	1.84		ug/L		92	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Nitro-m-xylene	96		70 - 130
Perylene-d12	94		70 - 130
Triphenylphosphate	106		70 - 130

Lab Sample ID: 380-190881-Z-1-A DU

Matrix: Water

Analysis Batch: 196656

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 196476

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
1-Methylnaphthalene	<0.099		<0.098		ug/L		NC	20
2,4'-DDD	<0.099		<0.098		ug/L		NC	20
2,4'-DDE	<0.099		<0.098		ug/L		NC	20
2,4'-DDT	<0.099		<0.098		ug/L		NC	20
2,4-Dinitrotoluene	<0.099		<0.098		ug/L		NC	20
2,6-Dinitrotoluene	<0.099		<0.098		ug/L		NC	20
2-Methylnaphthalene	<0.099		<0.098		ug/L		NC	20
4,4'-DDD	<0.099		<0.098		ug/L		NC	20
4,4'-DDE	<0.099		<0.098		ug/L		NC	20
4,4'-DDT	<0.099		<0.098		ug/L		NC	20
Acenaphthene	<0.099		<0.098		ug/L		NC	20
Acenaphthylene	<0.099		<0.098		ug/L		NC	20
Acetochlor	<0.099		<0.098		ug/L		NC	20
Alachlor	<0.050		<0.049		ug/L		NC	20
alpha-BHC	<0.099		<0.098		ug/L		NC	20
alpha-Chlordane	<0.050		<0.049		ug/L		NC	20
Anthracene	<0.020		<0.020		ug/L		NC	20
Atrazine	<0.050		<0.049		ug/L		NC	20
Benz(a)anthracene	<0.050		<0.049		ug/L		NC	20
Benzo[a]pyrene	<0.020		<0.020		ug/L		NC	20
Benzo[b]fluoranthene	<0.020		<0.020		ug/L		NC	20
Benzo[g,h,i]perylene	<0.050		<0.049		ug/L		NC	20
Benzo[k]fluoranthene	<0.020		<0.020		ug/L		NC	20
beta-BHC	<0.099		<0.098		ug/L		NC	20
Bis(2-ethylhexyl) phthalate	<0.60		<0.59		ug/L		NC	20
Bromacil	<0.099		<0.098		ug/L		NC	20
Butachlor	<0.050		<0.049		ug/L		NC	20
Butylbenzylphthalate	<0.50		<0.49		ug/L		NC	20
Chlorobenzilate	<0.099		<0.098		ug/L		NC	20
Chloroneb	<0.099		<0.098		ug/L		NC	20
Chlorothalonil (Draconil, Bravo)	<0.099		<0.098		ug/L		NC	20
Chlorpyrifos	<0.050		<0.049		ug/L		NC	20
Chrysene	<0.020		<0.020		ug/L		NC	20
delta-BHC	<0.099		<0.098		ug/L		NC	20
Di(2-ethylhexyl)adipate	<0.60		<0.59		ug/L		NC	20

Eurofins Pomona

QC Sample Results

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

Job ID: 380-191262-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: 380-190881-Z-1-A DU

Matrix: Water

Analysis Batch: 196656

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 196476

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Dibenz(a,h)anthracene	<0.050		<0.049		ug/L		NC	20
Diclorvos (DDVP)	<0.050		<0.049		ug/L		NC	20
Dieldrin	<0.0099		<0.0098		ug/L		NC	20
Diethylphthalate	<0.50		<0.49		ug/L		NC	20
Dimethylphthalate	<0.50		<0.49		ug/L		NC	20
Di-n-butyl phthalate	<0.99		<0.98		ug/L		NC	20
Di-n-octyl phthalate	<0.099		<0.098		ug/L		NC	20
Endosulfan I (Alpha)	<0.099		<0.098		ug/L		NC	20
Endosulfan II (Beta)	<0.099		<0.098		ug/L		NC	20
Endosulfan sulfate	<0.099		<0.098		ug/L		NC	20
Endrin	<0.0099		<0.0098		ug/L		NC	20
Endrin aldehyde	<0.099		<0.098		ug/L		NC	20
EPTC	<0.099		<0.098		ug/L		NC	20
Fluoranthene	<0.099		<0.098		ug/L		NC	20
Fluorene	<0.050		<0.049		ug/L		NC	20
gamma-Chlordane	<0.050		<0.049		ug/L		NC	20
Heptachlor	<0.0099		<0.0098		ug/L		NC	20
Heptachlor epoxide (isomer B)	<0.0099		<0.0098		ug/L		NC	20
Hexachlorobenzene	<0.050		<0.049		ug/L		NC	20
Hexachlorocyclopentadiene	<0.050		<0.049		ug/L		NC	20
Indeno[1,2,3-cd]pyrene	<0.050		<0.049		ug/L		NC	20
Isophorone	<0.099		<0.098		ug/L		NC	20
Lindane	<0.0099		<0.0098		ug/L		NC	20
Malathion	<0.099		<0.098		ug/L		NC	20
Methoxychlor	<0.050		<0.049		ug/L		NC	20
Metolachlor	<0.050		<0.049		ug/L		NC	20
Molinate	<0.099		<0.098		ug/L		NC	20
Naphthalene	<0.099		<0.098		ug/L		NC	20
Parathion	<0.099		<0.098		ug/L		NC	20
Pendimethalin (Penoxaline)	<0.099		<0.098		ug/L		NC	20
Phenanthrene	<0.040		<0.039		ug/L		NC	20
Propachlor	<0.050		<0.049		ug/L		NC	20
Pyrene	<0.050		<0.049		ug/L		NC	20
Simazine	<0.050		<0.049		ug/L		NC	20
Terbacil	<0.099		<0.098		ug/L		NC	20
Terbutylazine	<0.099		<0.098		ug/L		NC	20
Thiobencarb	<0.099		<0.098		ug/L		NC	20
Total Permethrin (mixed isomers)	<0.20		<0.20		ug/L		NC	20
trans-Nonachlor	<0.050		<0.049		ug/L		NC	20
Trifluralin	<0.099		<0.098		ug/L		NC	20

Surrogate	%Recovery	DU Qualifier	Limits
2-Nitro-m-xylene	97		70 - 130
Perylene-d12	91		70 - 130
Triphenylphosphate	104		70 - 130

QC Sample Results

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

Job ID: 380-191262-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MB 570-680289/1-A
Matrix: Water
Analysis Batch: 681700

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 680289

<i>Tentatively Identified Compound</i>	<i>Est. Result</i>	<i>MB MB</i> <i>Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>RT</i>	<i>CAS No.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Tentatively Identified Compound</i>	<i>None</i>		<i>ug/L</i>			<i>N/A</i>	<i>01/08/26 17:38</i>	<i>01/13/26 15:27</i>	<i>1</i>
<i>Surrogate</i>	<i>%Recovery</i>	<i>MB MB</i> <i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
2,4,6-Tribromophenol (Surr)	71		33 - 139				01/08/26 17:38	01/13/26 15:27	1
2-Fluorobiphenyl (Surr)	86		33 - 126				01/08/26 17:38	01/13/26 15:27	1
2-Fluorophenol (Surr)	59		12 - 120				01/08/26 17:38	01/13/26 15:27	1
Nitrobenzene-d5 (Surr)	105		36 - 120				01/08/26 17:38	01/13/26 15:27	1
Phenol-d6 (Surr)	38		10 - 120				01/08/26 17:38	01/13/26 15:27	1
p-Terphenyl-d14 (Surr)	100		47 - 131				01/08/26 17:38	01/13/26 15:27	1

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

Lab Sample ID: MB 570-680289/1-A
Matrix: Water
Analysis Batch: 681143

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 680289

<i>Analyte</i>	<i>Result</i>	<i>MB MB</i> <i>Qualifier</i>	<i>RL</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1-Methylnaphthalene	<0.20		0.20	ug/L		01/08/26 17:38	01/12/26 09:45	1
2-Methylnaphthalene	<0.20		0.20	ug/L		01/08/26 17:38	01/12/26 09:45	1
Acenaphthene	<0.20		0.20	ug/L		01/08/26 17:38	01/12/26 09:45	1
Acenaphthylene	<0.20		0.20	ug/L		01/08/26 17:38	01/12/26 09:45	1
Anthracene	<0.20		0.20	ug/L		01/08/26 17:38	01/12/26 09:45	1
Benzo[a]anthracene	<0.20		0.20	ug/L		01/08/26 17:38	01/12/26 09:45	1
Benzo[a]pyrene	<0.20		0.20	ug/L		01/08/26 17:38	01/12/26 09:45	1
Benzo[b]fluoranthene	<0.20		0.20	ug/L		01/08/26 17:38	01/12/26 09:45	1
Benzo[g,h,i]perylene	<0.20		0.20	ug/L		01/08/26 17:38	01/12/26 09:45	1
Benzo[k]fluoranthene	<0.20		0.20	ug/L		01/08/26 17:38	01/12/26 09:45	1
Chrysene	<0.20		0.20	ug/L		01/08/26 17:38	01/12/26 09:45	1
Dibenz(a,h)anthracene	<0.20		0.20	ug/L		01/08/26 17:38	01/12/26 09:45	1
Fluoranthene	<0.20		0.20	ug/L		01/08/26 17:38	01/12/26 09:45	1
Fluorene	<0.20		0.20	ug/L		01/08/26 17:38	01/12/26 09:45	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20	ug/L		01/08/26 17:38	01/12/26 09:45	1
Naphthalene	<0.20		0.20	ug/L		01/08/26 17:38	01/12/26 09:45	1
Phenanthrene	<0.20		0.20	ug/L		01/08/26 17:38	01/12/26 09:45	1
Pyrene	<0.20		0.20	ug/L		01/08/26 17:38	01/12/26 09:45	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>MB MB</i> <i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
2,4,6-Tribromophenol (Surr)	99		28 - 127			01/08/26 17:38	01/12/26 09:45	1
2-Fluorobiphenyl (Surr)	81		31 - 120			01/08/26 17:38	01/12/26 09:45	1
2-Fluorophenol (Surr)	56		17 - 120			01/08/26 17:38	01/12/26 09:45	1
Nitrobenzene-d5 (Surr)	85		27 - 120			01/08/26 17:38	01/12/26 09:45	1
Phenol-d6 (Surr)	36		10 - 120			01/08/26 17:38	01/12/26 09:45	1
p-Terphenyl-d14 (Surr)	87		45 - 120			01/08/26 17:38	01/12/26 09:45	1

Eurofins Pomona

QC Sample Results

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

Job ID: 380-191262-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCS 570-680289/2-A

Matrix: Water

Analysis Batch: 681143

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 680289

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	20.0	16.6		ug/L		83	47 - 120
2-Methylnaphthalene	20.0	15.8		ug/L		79	43 - 120
Acenaphthene	20.0	16.6		ug/L		83	60 - 132
Acenaphthylene	20.0	16.6		ug/L		83	54 - 126
Anthracene	20.0	16.3		ug/L		81	43 - 120
Benzo[a]anthracene	20.0	17.5		ug/L		88	42 - 133
Benzo[a]pyrene	20.0	17.4		ug/L		87	32 - 148
Benzo[b]fluoranthene	20.0	17.6		ug/L		88	42 - 140
Benzo[g,h,i]perylene	20.0	17.1		ug/L		85	1 - 195
Benzo[k]fluoranthene	20.0	16.5		ug/L		82	25 - 146
Chrysene	20.0	17.2		ug/L		86	44 - 140
Dibenz(a,h)anthracene	20.0	18.0		ug/L		90	1 - 200
Fluoranthene	20.0	16.6		ug/L		83	43 - 121
Fluorene	20.0	17.0		ug/L		85	70 - 120
Indeno[1,2,3-cd]pyrene	20.0	17.8		ug/L		89	1 - 151
Naphthalene	20.0	16.0		ug/L		80	36 - 120
Phenanthrene	20.0	16.7		ug/L		84	65 - 120
Pyrene	20.0	18.6		ug/L		93	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	85		28 - 127
2-Fluorobiphenyl (Surr)	82		31 - 120
2-Fluorophenol (Surr)	64		17 - 120
Nitrobenzene-d5 (Surr)	83		27 - 120
Phenol-d6 (Surr)	43		10 - 120
p-Terphenyl-d14 (Surr)	92		45 - 120

Lab Sample ID: LCSD 570-680289/3-A

Matrix: Water

Analysis Batch: 681143

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 680289

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	20.0	18.6		ug/L		93	47 - 120	12	20
2-Methylnaphthalene	20.0	18.0		ug/L		90	43 - 120	13	20
Acenaphthene	20.0	18.8		ug/L		94	60 - 132	12	29
Acenaphthylene	20.0	18.7		ug/L		93	54 - 126	12	45
Anthracene	20.0	18.6		ug/L		93	43 - 120	13	40
Benzo[a]anthracene	20.0	19.3		ug/L		97	42 - 133	10	32
Benzo[a]pyrene	20.0	18.8		ug/L		94	32 - 148	8	43
Benzo[b]fluoranthene	20.0	19.2		ug/L		96	42 - 140	9	43
Benzo[g,h,i]perylene	20.0	18.8		ug/L		94	1 - 195	10	61
Benzo[k]fluoranthene	20.0	18.0		ug/L		90	25 - 146	9	38
Chrysene	20.0	19.1		ug/L		96	44 - 140	11	53
Dibenz(a,h)anthracene	20.0	19.3		ug/L		97	1 - 200	7	75
Fluoranthene	20.0	18.8		ug/L		94	43 - 121	13	40
Fluorene	20.0	19.5		ug/L		98	70 - 120	14	23
Indeno[1,2,3-cd]pyrene	20.0	19.8		ug/L		99	1 - 151	10	60
Naphthalene	20.0	17.9		ug/L		90	36 - 120	11	39

Eurofins Pomona

QC Sample Results

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

Job ID: 380-191262-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCSD 570-680289/3-A

Matrix: Water

Analysis Batch: 681143

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 680289

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenanthrene	20.0	19.3		ug/L		96	65 - 120	14	24
Pyrene	20.0	20.5		ug/L		103	70 - 120	10	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	98		28 - 127
2-Fluorobiphenyl (Surr)	88		31 - 120
2-Fluorophenol (Surr)	65		17 - 120
Nitrobenzene-d5 (Surr)	89		27 - 120
Phenol-d6 (Surr)	42		10 - 120
p-Terphenyl-d14 (Surr)	99		45 - 120

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

Lab Sample ID: MB 570-680870/12

Matrix: Water

Analysis Batch: 680870

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			01/10/26 16:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		38 - 134		01/10/26 16:12	1

Lab Sample ID: LCS 570-680870/1010

Matrix: Water

Analysis Batch: 680870

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	382		ug/L		96	78 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		38 - 134

Lab Sample ID: LCSD 570-680870/11

Matrix: Water

Analysis Batch: 680870

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	384		ug/L		96	78 - 120	0	10

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		38 - 134

QC Sample Results

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

Job ID: 380-191262-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MRL 570-680870/13

Matrix: Water

Analysis Batch: 680870

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	13.1		ug/L		131	50 - 150		
Surrogate		MRL %Recovery	MRL Qualifier	Limits							
4-Bromofluorobenzene (Surr)		88		38 - 134							

Lab Sample ID: 570-262565-N-1 MS

Matrix: Water

Analysis Batch: 680870

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	360		ug/L		90	68 - 122
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	98		38 - 134						

Lab Sample ID: 570-262565-O-1 MSD

Matrix: Water

Analysis Batch: 680870

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	354		ug/L		89	68 - 122	2	18
<u>Surrogate</u>	<u>MSD %Recovery</u>	<u>MSD Qualifier</u>	<u>Limits</u>								
4-Bromofluorobenzene (Surr)	97		38 - 134								

Lab Sample ID: MB 570-682005/8

Matrix: Water

Analysis Batch: 682005

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			01/13/26 22:38	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		38 - 134				01/13/26 22:38	1

Lab Sample ID: LCS 570-682005/4

Matrix: Water

Analysis Batch: 682005

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

			Spike	LCS	LCS				%Rec		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	%Rec	Limits	
Gasoline Range Organics (C4-C13)			400	354		ug/L		89		78 - 120	
			LCS	LCS							
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	100		38 - 134								

Eurofins Pomona

QC Sample Results

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

Job ID: 380-191262-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCSD 570-682005/5

Matrix: Water

Analysis Batch: 682005

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	393		ug/L		98	78 - 120	10	10
Surrogate	%Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	91		38 - 134						

Lab Sample ID: MRL 570-682005/3

Matrix: Water

Analysis Batch: 682005

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

			Spike	MRL	MRL				%Rec		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (C4-C13)			10.0	11.9		ug/L		119	50 - 150		
Surrogate	MRL %Recovery	MRL Qualifier	Limits								
4-Bromofluorobenzene (Surr)	91		38 - 134								

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

Lab Sample ID: MB 570-681284/1-A

Matrix: Water

Analysis Batch: 682292

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 681284

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<25		25	ug/L		01/12/26 11:15	01/14/26 17:22	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		01/12/26 11:15	01/14/26 17:22	1
C8-C18	<25		25	ug/L		01/12/26 11:15	01/14/26 17:22	1
Surrogate	%Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac		
n-Octacosane (Surr)	119		60 - 130	01/12/26 11:15	01/14/26 17:22	1		

Lab Sample ID: LCS 570-681284/2-A

Matrix: Water

Analysis Batch: 682292

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 681284

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
C10-C28			1600	1500		ug/L		94	56 - 127		
Surrogate			LCS %Recovery	LCS Qualifier	Limits						
n-Octacosane (Surr)			112		60 - 130						

Lab Sample ID: LCSD 570-681284/3-A

Matrix: Water

Analysis Batch: 682292

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 681284

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28	1600	1530		ug/L		96	56 - 127	2	23

Eurofins Pomona

QC Sample Results

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

Job ID: 380-191262-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCSD 570-681284/3-A
Matrix: Water
Analysis Batch: 682292

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 681284

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
n-Octacosane (Surr)	115		60 - 130

Lab Sample ID: MRL 570-681284/4-A
Matrix: Water
Analysis Batch: 682292

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 681284

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits	
C10-C28			0.0200	0.0310	^3+	mg/L	-	155	50 - 150	
	MRL	MRL								
Surrogate	%Recovery	Qualifier	Limits							
n-Octacosane (Surr)	109		60 - 130							

QC Association Summary

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

Job ID: 380-191262-1
SDG: Weekly: Halawa Shaft Viewing Pool

GC/MS Semi VOA

Prep Batch: 196476

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-191262-1	Halawa Shaft Viewing Pool	Total/NA	Water	525.2	
MB 380-196476/20-A	Method Blank	Total/NA	Water	525.2	
LCS 380-196476/22-A	Lab Control Sample	Total/NA	Water	525.2	
MRL 380-196476/21-A	Lab Control Sample	Total/NA	Water	525.2	
380-190826-S-1-A MS	Matrix Spike	Total/NA	Water	525.2	
380-190881-Z-1-A DU	Duplicate	Total/NA	Water	525.2	

Analysis Batch: 196656

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-191262-1	Halawa Shaft Viewing Pool	Total/NA	Water	525.2	196476
MB 380-196476/20-A	Method Blank	Total/NA	Water	525.2	196476
LCS 380-196476/22-A	Lab Control Sample	Total/NA	Water	525.2	196476
MRL 380-196476/21-A	Lab Control Sample	Total/NA	Water	525.2	196476
380-190826-S-1-A MS	Matrix Spike	Total/NA	Water	525.2	196476
380-190881-Z-1-A DU	Duplicate	Total/NA	Water	525.2	196476

Prep Batch: 680289

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-191262-1	Halawa Shaft Viewing Pool	Total/NA	Water	625.1	
MB 570-680289/1-A	Method Blank	Total/NA	Water	625.1	
LCS 570-680289/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 570-680289/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	

Analysis Batch: 681143

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-680289/1-A	Method Blank	Total/NA	Water	625.1 SIM	680289
LCS 570-680289/2-A	Lab Control Sample	Total/NA	Water	625.1 SIM	680289
LCSD 570-680289/3-A	Lab Control Sample Dup	Total/NA	Water	625.1 SIM	680289

Analysis Batch: 681620

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-191262-1	Halawa Shaft Viewing Pool	Total/NA	Water	625.1 SIM	680289

Analysis Batch: 681700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-191262-1	Halawa Shaft Viewing Pool	Total/NA	Water	625.1	680289
MB 570-680289/1-A	Method Blank	Total/NA	Water	625.1	680289

GC VOA

Analysis Batch: 680870

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-191262-1	Halawa Shaft Viewing Pool	Total/NA	Water	8015B GRO LL	
MB 570-680870/12	Method Blank	Total/NA	Water	8015B GRO LL	
LCS 570-680870/1010	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-680870/11	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	
MRL 570-680870/13	Lab Control Sample	Total/NA	Water	8015B GRO LL	
570-262565-N-1 MS	Matrix Spike	Total/NA	Water	8015B GRO LL	
570-262565-O-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: 380-191262-1
SDG: Weekly: Halawa Shaft Viewing Pool

GC VOA

Analysis Batch: 682005

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-191262-2	TB: Halawa Shaft Viewing Pool	Total/NA	Water	8015B GRO LL	
MB 570-682005/8	Method Blank	Total/NA	Water	8015B GRO LL	
LCS 570-682005/4	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-682005/5	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	
MRL 570-682005/3	Lab Control Sample	Total/NA	Water	8015B GRO LL	

GC Semi VOA

Prep Batch: 681284

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-191262-1	Halawa Shaft Viewing Pool	Total/NA	Water	3510C	
MB 570-681284/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-681284/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-681284/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-681284/4-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 682292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-191262-1	Halawa Shaft Viewing Pool	Total/NA	Water	8015B	681284
MB 570-681284/1-A	Method Blank	Total/NA	Water	8015B	681284
LCS 570-681284/2-A	Lab Control Sample	Total/NA	Water	8015B	681284
LCSD 570-681284/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	681284
MRL 570-681284/4-A	Lab Control Sample	Total/NA	Water	8015B	681284

Lab Chronicle

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

Job ID: 380-191262-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: Halawa Shaft Viewing Pool

Lab Sample ID: 380-191262-1

Date Collected: 01/06/26 09:25

Matrix: Water

Date Received: 01/08/26 09:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			196476	IQ42	EA POM	01/08/26 15:01
Total/NA	Analysis	525.2		1	196656	UPAC	EA POM	01/09/26 14:29
Total/NA	Prep	625.1			680289	VAW2	EET CAL 4	01/09/26 08:24
Total/NA	Analysis	625.1		1	681700	PQS1	EET CAL 4	01/13/26 17:04
Total/NA	Prep	625.1			680289	VAW2	EET CAL 4	01/09/26 08:24
Total/NA	Analysis	625.1 SIM		1	681620	PQS1	EET CAL 4	01/13/26 17:31
Total/NA	Analysis	8015B GRO LL		1	680870	YD9V	EET CAL 4	01/10/26 20:01
Total/NA	Prep	3510C			681284	TVD6	EET CAL 4	01/12/26 11:16
Total/NA	Analysis	8015B		1	682292	TR8L	EET CAL 4	01/14/26 18:27

Client Sample ID: TB: Halawa Shaft Viewing Pool

Lab Sample ID: 380-191262-2

Date Collected: 01/06/26 09:25

Matrix: Water

Date Received: 01/08/26 09:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	682005	AJG4	EET CAL 4	01/14/26 01:05

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: 380-191262-1
SDG: Weekly: Halawa Shaft Viewing Pool

Laboratory: Eurofins Pomona

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Hawaii	State	CA00006	01-31-26
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
525.2	525.2	Water	1-Methylnaphthalene
525.2	525.2	Water	2,4'-DDD
525.2	525.2	Water	2,4'-DDE
525.2	525.2	Water	2,4'-DDT
525.2	525.2	Water	2,4-Dinitrotoluene
525.2	525.2	Water	2,6-Dinitrotoluene
525.2	525.2	Water	2-Methylnaphthalene
525.2	525.2	Water	4,4'-DDD
525.2	525.2	Water	4,4'-DDE
525.2	525.2	Water	4,4' DDT
525.2	525.2	Water	Acetochlor
525.2	525.2	Water	alpha-BHC
525.2	525.2	Water	alpha-Chlordane
525.2	525.2	Water	beta-BHC
525.2	525.2	Water	Chlorobenzilate
525.2	525.2	Water	Chloroneb
525.2	525.2	Water	Chlorothalonil (Draconil, Bravo)
525.2	525.2	Water	Chlorpyrifos
525.2	525.2	Water	delta-BHC
525.2	525.2	Water	Diclorvos (DDVP)
525.2	525.2	Water	Endosulfan I (Alpha)
525.2	525.2	Water	Endosulfan II (Beta)
525.2	525.2	Water	Endosulfan sulfate
525.2	525.2	Water	Endrin aldehyde
525.2	525.2	Water	EPTC
525.2	525.2	Water	gamma-Chlordane
525.2	525.2	Water	Isophorone
525.2	525.2	Water	Malathion
525.2	525.2	Water	Parathion
525.2	525.2	Water	Pendimethalin (Penoxaline)
525.2	525.2	Water	Terbacil
525.2	525.2	Water	Terbutylazine
525.2	525.2	Water	Total Permethrin (mixed isomers)
525.2	525.2	Water	trans-Nonachlor

Laboratory: Eurofins Calscience

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	7296.01	11-30-26
A2LA	ISO/IEC 17025	7296.01	11-30-26
Alaska (UST)	State	25-005	03-02-26
Arizona	State	AZ0830	11-17-26
California	Los Angeles County Sanitation Districts	9257304	07-31-26
California	SCAQMD LAP	17LA0919	11-30-26

Eurofins Pomona

Accreditation/Certification Summary

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

Job ID: 380-191262-1
SDG: Weekly: Halawa Shaft Viewing Pool

Laboratory: Eurofins Calscience (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	3082	07-31-26
Kansas	NELAP	E-10420	07-31-26
Nevada	State	CA00111	07-31-26
Oregon	NELAP	4175	02-02-26
USDA	US Federal Programs	525-23-159-97150	06-08-26
Utah	NELAP	CA00111	02-28-26
Washington	State	C916	10-11-26

Method Summary

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

Job ID: 380-191262-1
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: 380-191262-1
SDG: Weekly: Halawa Shaft Viewing Pool

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
380-191262-1	Halawa Shaft Viewing Pool	Water	01/06/26 09:25	01/08/26 09:25	Hawaii
380-191262-2	TB: Halawa Shaft Viewing Pool	Water	01/06/26 09:25	01/08/26 09:25	Hawaii

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

Ver- 04/07/2024

Ver: 10/10/2024
1/20/2026

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-191262-1

SDG Number: Weekly: Halawa Shaft Viewing Pool

Login Number: 191262

List Number: 1

Creator: Hernandez, Orlando

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: 380-191262-1

SDG Number: Weekly: Halawa Shaft Viewing Pool

Login Number: 191262

List Number: 2

Creator: Khana, Piyush

List Source: Eurofins Calscience

List Creation: 01/08/26 06:46 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.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	