

ANALYTICAL REPORT

PREPARED FOR

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JOB DESCRIPTION

RED-HILL
Weekly: Halawa Shaft Viewing Pool

JOB NUMBER

380-195000-1

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



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Definitions/Glossary

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

Job ID: 380-195000-1
SDG: Weekly: Halawa Shaft Viewing Pool

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA TICs

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

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: 380-195000-1

Job ID: 380-195000-1

Eurofins Pomona

Job Narrative 380-195000-1

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 1/29/2026 9:52 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 6 coolers at receipt time were 1.1°C, 1.5°C, 3.0°C, 3.7°C, 3.8°C and 5.0°C.

GC/MS Semi VOA

Method 625.1: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 570-689280. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch. 625 Sim

Method 625.1 SIM: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 570-689280. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch. 625 Sim

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

Gasoline Range Organics

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

Diesel Range Organics

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: 380-195000-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: HALAWA SHAFT VIEWING POOL

Lab Sample ID: 380-195000-1

No Detections.

Client Sample ID: TB: HALAWA SHAFT VIEWING POOL

Lab Sample ID: 380-195000-2

No Detections.

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This Detection Summary does not include radiochemical test results.

Client Sample Results

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

Job ID: 380-195000-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: HALAWA SHAFT VIEWING POOL

Lab Sample ID: 380-195000-1

Date Collected: 01/27/26 09:30

Matrix: Water

Date Received: 01/29/26 09:52

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		02/01/26 16:25	02/03/26 22:43	1
2,4'-DDD	<0.098		0.098	ug/L		02/01/26 16:25	02/03/26 22:43	1
2,4'-DDE	<0.098		0.098	ug/L		02/01/26 16:25	02/03/26 22:43	1
2,4'-DDT	<0.098		0.098	ug/L		02/01/26 16:25	02/03/26 22:43	1
2,4-Dinitrotoluene	<0.098		0.098	ug/L		02/01/26 16:25	02/03/26 22:43	1
2,6-Dinitrotoluene	<0.098		0.098	ug/L		02/01/26 16:25	02/03/26 22:43	1
2-Methylnaphthalene	<0.098		0.098	ug/L		02/01/26 16:25	02/03/26 22:43	1
4,4'-DDD	<0.098		0.098	ug/L		02/01/26 16:25	02/03/26 22:43	1
4,4'-DDE	<0.098		0.098	ug/L		02/01/26 16:25	02/03/26 22:43	1
4,4'-DDT	<0.098		0.098	ug/L		02/01/26 16:25	02/03/26 22:43	1
Acenaphthene	<0.098		0.098	ug/L		02/01/26 16:25	02/03/26 22:43	1
Acenaphthylene	<0.098		0.098	ug/L		02/01/26 16:25	02/03/26 22:43	1
Acetochlor	<0.098		0.098	ug/L		02/01/26 16:25	02/03/26 22:43	1
Alachlor	<0.049		0.049	ug/L		02/01/26 16:25	02/03/26 22:43	1
alpha-BHC	<0.098		0.098	ug/L		02/01/26 16:25	02/03/26 22:43	1
alpha-Chlordane	<0.049		0.049	ug/L		02/01/26 16:25	02/03/26 22:43	1
Anthracene	<0.020		0.020	ug/L		02/01/26 16:25	02/03/26 22:43	1
Atrazine	<0.049		0.049	ug/L		02/01/26 16:25	02/03/26 22:43	1
Benz(a)anthracene	<0.049		0.049	ug/L		02/01/26 16:25	02/03/26 22:43	1
Benzo[a]pyrene	<0.020		0.020	ug/L		02/01/26 16:25	02/03/26 22:43	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		02/01/26 16:25	02/03/26 22:43	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		02/01/26 16:25	02/03/26 22:43	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		02/01/26 16:25	02/03/26 22:43	1
beta-BHC	<0.098		0.098	ug/L		02/01/26 16:25	02/03/26 22:43	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		02/01/26 16:25	02/03/26 22:43	1
Bromacil	<0.098		0.098	ug/L		02/01/26 16:25	02/03/26 22:43	1
Butachlor	<0.049		0.049	ug/L		02/01/26 16:25	02/03/26 22:43	1
Butylbenzylphthalate	<0.49		0.49	ug/L		02/01/26 16:25	02/03/26 22:43	1
Chlorobenzilate	<0.098		0.098	ug/L		02/01/26 16:25	02/03/26 22:43	1
Chloroneb	<0.098		0.098	ug/L		02/01/26 16:25	02/03/26 22:43	1
Chlorothalonil (Draconil, Bravo)	<0.098		0.098	ug/L		02/01/26 16:25	02/03/26 22:43	1
Chlorpyrifos	<0.049		0.049	ug/L		02/01/26 16:25	02/03/26 22:43	1
Chrysene	<0.020		0.020	ug/L		02/01/26 16:25	02/03/26 22:43	1
delta-BHC	<0.098		0.098	ug/L		02/01/26 16:25	02/03/26 22:43	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		02/01/26 16:25	02/03/26 22:43	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		02/01/26 16:25	02/03/26 22:43	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		02/01/26 16:25	02/03/26 22:43	1
Dieldrin	<0.0098		0.0098	ug/L		02/01/26 16:25	02/03/26 22:43	1
Diethylphthalate	<0.49		0.49	ug/L		02/01/26 16:25	02/03/26 22:43	1
Dimethylphthalate	<0.49		0.49	ug/L		02/01/26 16:25	02/03/26 22:43	1
Di-n-butyl phthalate	<0.98		0.98	ug/L		02/01/26 16:25	02/03/26 22:43	1
Di-n-octyl phthalate	<0.098		0.098	ug/L		02/01/26 16:25	02/03/26 22:43	1
Endosulfan I (Alpha)	<0.098		0.098	ug/L		02/01/26 16:25	02/03/26 22:43	1
Endosulfan II (Beta)	<0.098		0.098	ug/L		02/01/26 16:25	02/03/26 22:43	1
Endosulfan sulfate	<0.098		0.098	ug/L		02/01/26 16:25	02/03/26 22:43	1
Endrin	<0.0098		0.0098	ug/L		02/01/26 16:25	02/03/26 22:43	1
Endrin aldehyde	<0.098		0.098	ug/L		02/01/26 16:25	02/03/26 22:43	1
EPTC	<0.098		0.098	ug/L		02/01/26 16:25	02/03/26 22:43	1
Fluoranthene	<0.098		0.098	ug/L		02/01/26 16:25	02/03/26 22:43	1

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Client Sample Results

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

Job ID: 380-195000-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: HALAWA SHAFT VIEWING POOL

Lab Sample ID: 380-195000-1

Date Collected: 01/27/26 09:30

Matrix: Water

Date Received: 01/29/26 09:52

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		02/01/26 16:25	02/03/26 22:43	1
gamma-Chlordane	<0.049		0.049	ug/L		02/01/26 16:25	02/03/26 22:43	1
Heptachlor	<0.0098		0.0098	ug/L		02/01/26 16:25	02/03/26 22:43	1
Heptachlor epoxide (isomer B)	<0.0098		0.0098	ug/L		02/01/26 16:25	02/03/26 22:43	1
Hexachlorobenzene	<0.049		0.049	ug/L		02/01/26 16:25	02/03/26 22:43	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		02/01/26 16:25	02/03/26 22:43	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		02/01/26 16:25	02/03/26 22:43	1
Isophorone	<0.098		0.098	ug/L		02/01/26 16:25	02/03/26 22:43	1
Lindane	<0.0098		0.0098	ug/L		02/01/26 16:25	02/03/26 22:43	1
Malathion	<0.098		0.098	ug/L		02/01/26 16:25	02/03/26 22:43	1
Methoxychlor	<0.049		0.049	ug/L		02/01/26 16:25	02/03/26 22:43	1
Metolachlor	<0.049		0.049	ug/L		02/01/26 16:25	02/03/26 22:43	1
Molinate	<0.098		0.098	ug/L		02/01/26 16:25	02/03/26 22:43	1
Naphthalene	<0.098		0.098	ug/L		02/01/26 16:25	02/03/26 22:43	1
Parathion	<0.098		0.098	ug/L		02/01/26 16:25	02/03/26 22:43	1
Pendimethalin (Penoxaline)	<0.098		0.098	ug/L		02/01/26 16:25	02/03/26 22:43	1
Phenanthrene	<0.039		0.039	ug/L		02/01/26 16:25	02/03/26 22:43	1
Propachlor	<0.049		0.049	ug/L		02/01/26 16:25	02/03/26 22:43	1
Pyrene	<0.049		0.049	ug/L		02/01/26 16:25	02/03/26 22:43	1
Simazine	<0.049		0.049	ug/L		02/01/26 16:25	02/03/26 22:43	1
Terbacil	<0.098		0.098	ug/L		02/01/26 16:25	02/03/26 22:43	1
Terbutylazine	<0.098		0.098	ug/L		02/01/26 16:25	02/03/26 22:43	1
Thiobencarb	<0.098		0.098	ug/L		02/01/26 16:25	02/03/26 22:43	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		02/01/26 16:25	02/03/26 22:43	1
trans-Nonachlor	<0.049		0.049	ug/L		02/01/26 16:25	02/03/26 22:43	1
Trifluralin	<0.098		0.098	ug/L		02/01/26 16:25	02/03/26 22:43	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	02/01/26 16:25	02/03/26 22:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	99		70 - 130	02/01/26 16:25	02/03/26 22:43	1
Perylene-d12	100		70 - 130	02/01/26 16:25	02/03/26 22:43	1
Triphenylphosphate	104		70 - 130	02/01/26 16:25	02/03/26 22:43	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.20		0.20	ug/L		01/30/26 12:01	02/04/26 14:08	1
2-Methylnaphthalene	<0.20		0.20	ug/L		01/30/26 12:01	02/04/26 14:08	1
Acenaphthene	<0.20		0.20	ug/L		01/30/26 12:01	02/04/26 14:08	1
Acenaphthylene	<0.20		0.20	ug/L		01/30/26 12:01	02/04/26 14:08	1
Anthracene	<0.20		0.20	ug/L		01/30/26 12:01	02/04/26 14:08	1
Benzo[a]anthracene	<0.20		0.20	ug/L		01/30/26 12:01	02/04/26 14:08	1
Benzo[a]pyrene	<0.20		0.20	ug/L		01/30/26 12:01	02/04/26 14:08	1
Benzo[b]fluoranthene	<0.20		0.20	ug/L		01/30/26 12:01	02/04/26 14:08	1
Benzo[g,h,i]perylene	<0.20		0.20	ug/L		01/30/26 12:01	02/04/26 14:08	1
Benzo[k]fluoranthene	<0.20		0.20	ug/L		01/30/26 12:01	02/04/26 14:08	1
Chrysene	<0.20		0.20	ug/L		01/30/26 12:01	02/04/26 14:08	1
Dibenz(a,h)anthracene	<0.20		0.20	ug/L		01/30/26 12:01	02/04/26 14:08	1
Fluoranthene	<0.20		0.20	ug/L		01/30/26 12:01	02/04/26 14:08	1

Eurofins Pomona

Client Sample Results

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

Job ID: 380-195000-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: HALAWA SHAFT VIEWING POOL

Lab Sample ID: 380-195000-1

Date Collected: 01/27/26 09:30

Matrix: Water

Date Received: 01/29/26 09:52

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	<0.20		0.20	ug/L		01/30/26 12:01	02/04/26 14:08	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20	ug/L		01/30/26 12:01	02/04/26 14:08	1
Naphthalene	<0.20		0.20	ug/L		01/30/26 12:01	02/04/26 14:08	1
Phenanthrene	<0.20		0.20	ug/L		01/30/26 12:01	02/04/26 14:08	1
Pyrene	<0.20		0.20	ug/L		01/30/26 12:01	02/04/26 14:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	89		28 - 127	01/30/26 12:01	02/04/26 14:08	1
2-Fluorobiphenyl (Surr)	82		31 - 120	01/30/26 12:01	02/04/26 14:08	1
2-Fluorophenol (Surr)	49		17 - 120	01/30/26 12:01	02/04/26 14:08	1
Nitrobenzene-d5 (Surr)	81		27 - 120	01/30/26 12:01	02/04/26 14:08	1
Phenol-d6 (Surr)	32		10 - 120	01/30/26 12:01	02/04/26 14:08	1
p-Terphenyl-d14 (Surr)	78		45 - 120	01/30/26 12:01	02/04/26 14:08	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	01/30/26 12:01	02/05/26 09:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	83		33 - 139	01/30/26 12:01	02/05/26 09:23	1
2-Fluorobiphenyl (Surr)	86		33 - 126	01/30/26 12:01	02/05/26 09:23	1
2-Fluorophenol (Surr)	62		12 - 120	01/30/26 12:01	02/05/26 09:23	1
Nitrobenzene-d5 (Surr)	79		36 - 120	01/30/26 12:01	02/05/26 09:23	1
Phenol-d6 (Surr)	32		10 - 120	01/30/26 12:01	02/05/26 09:23	1
p-Terphenyl-d14 (Surr)	92		47 - 131	01/30/26 12:01	02/05/26 09:23	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			02/04/26 14:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		38 - 134		02/04/26 14:23	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		02/03/26 09:03	02/06/26 22:34	1
Motor Oil Range Organics [C24-C36]	<26		26	ug/L		02/03/26 09:03	02/06/26 22:34	1
C8-C18	<26		26	ug/L		02/03/26 09:03	02/06/26 22:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	89		60 - 130	02/03/26 09:03	02/06/26 22:34	1

Client Sample ID: TB: HALAWA SHAFT VIEWING POOL

Lab Sample ID: 380-195000-2

Date Collected: 01/27/26 09:30

Matrix: Water

Date Received: 01/29/26 09:52

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			02/04/26 19:03	1

Client Sample Results

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

Job ID: 380-195000-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: TB: HALAWA SHAFT VIEWING POOL

Lab Sample ID: 380-195000-2

Date Collected: 01/27/26 09:30

Matrix: Water

Date Received: 01/29/26 09:52

<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)	94		38 - 134		02/04/26 19:03	1

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Action Limit Summary

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

Job ID: 380-195000-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: HALAWA SHAFT VIEWING POOL

Lab Sample ID: 380-195000-1

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	<0.20		ug/L	0.2	0.20	625.1 SIM	Total/NA

Surrogate Summary

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

Job ID: 380-195000-1
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)
380-194072-M-1-A DU	Duplicate	100	93	104
380-194122-AT-1-A MS	Matrix Spike	100	100	107
380-195000-1	HALAWA SHAFT VIEWING POOL	99	100	104
LCS 380-202558/23-A	Lab Control Sample	100	101	105
MB 380-202558/21-A	Method Blank	99	96	104
MRL 380-202558/22-A	Lab Control Sample	99	95	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)
380-195000-1	HALAWA SHAFT VIEWING POOL	83	86	62	79	32	92
MB 570-689280/1-A	Method Blank	75	78	58	72	30	84

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)
380-195000-1	HALAWA SHAFT VIEWING POOL	89	82	49	81	32	78
LCS 570-689280/2-A	Lab Control Sample	98	87	63	91	44	94
LCSD 570-689280/3-A	Lab Control Sample Dup	81	76	57	80	39	84
MB 570-689280/1-A	Method Blank	85	73	48	77	32	74

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: 380-195000-1
 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)	
380-195000-1	HALAWA SHAFT VIEWING POOL	91	
380-195000-2	TB: HALAWA SHAFT VIEWING POOL	94	
380-195023-B-1 MS	Matrix Spike	94	
380-195023-C-1 MSD	Matrix Spike Duplicate	93	
LCS 570-691227/4	Lab Control Sample	77	
LCSD 570 691227/5	Lab Control Sample Dup	83	
MB 570-691227/6	Method Blank	84	
MRL 570-691227/7	Lab Control Sample	80	
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)	
380-194998-C-1-A MS	Matrix Spike	111	
380-194998-D-1-A MSD	Matrix Spike Duplicate	97	
380-195000-1	HALAWA SHAFT VIEWING POOL	89	
380-195023-B-1-A MSD	Matrix Spike Duplicate	95	
380-195023-C-1-A MS	Matrix Spike	102	
380-195033-B-1-B MS	Matrix Spike	103	
380-195033-B-1-C MSD	Matrix Spike Duplicate	105	
LCS 570-689963/2-A	Lab Control Sample	99	
LCSD 570-689963/3-A	Lab Control Sample Dup	105	
MB 570-689963/1-A	Method Blank	105	
MRL 570-689963/4-A	Lab Control Sample	94	
Surrogate Legend			
OTCSN = n-Octacosane (Surr)			

QC Sample Results

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

Job ID: 380-195000-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MB 380-202558/21-A
Matrix: Water
Analysis Batch: 203086

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202558

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1-Methylnaphthalene	<0.098		0.098	ug/L		02/01/26 16:25	02/03/26 14:59	1
2,4'-DDD	<0.098		0.098	ug/L		02/01/26 16:25	02/03/26 14:59	1
2,4'-DDE	<0.098		0.098	ug/L		02/01/26 16:25	02/03/26 14:59	1
2,4'-DDT	<0.098		0.098	ug/L		02/01/26 16:25	02/03/26 14:59	1
2,4-Dinitrotoluene	<0.098		0.098	ug/L		02/01/26 16:25	02/03/26 14:59	1
2,6-Dinitrotoluene	<0.098		0.098	ug/L		02/01/26 16:25	02/03/26 14:59	1
2-Methylnaphthalene	<0.098		0.098	ug/L		02/01/26 16:25	02/03/26 14:59	1
4,4'-DDD	<0.098		0.098	ug/L		02/01/26 16:25	02/03/26 14:59	1
4,4'-DDE	<0.098		0.098	ug/L		02/01/26 16:25	02/03/26 14:59	1
4,4'-DDT	<0.098		0.098	ug/L		02/01/26 16:25	02/03/26 14:59	1
Acenaphthene	<0.098		0.098	ug/L		02/01/26 16:25	02/03/26 14:59	1
Acenaphthylene	<0.098		0.098	ug/L		02/01/26 16:25	02/03/26 14:59	1
Acetochlor	<0.098		0.098	ug/L		02/01/26 16:25	02/03/26 14:59	1
Alachlor	<0.049		0.049	ug/L		02/01/26 16:25	02/03/26 14:59	1
alpha-BHC	<0.098		0.098	ug/L		02/01/26 16:25	02/03/26 14:59	1
alpha-Chlordane	<0.049		0.049	ug/L		02/01/26 16:25	02/03/26 14:59	1
Anthracene	<0.020		0.020	ug/L		02/01/26 16:25	02/03/26 14:59	1
Atrazine	<0.049		0.049	ug/L		02/01/26 16:25	02/03/26 14:59	1
Benz(a)anthracene	<0.049		0.049	ug/L		02/01/26 16:25	02/03/26 14:59	1
Benzo[a]pyrene	<0.020		0.020	ug/L		02/01/26 16:25	02/03/26 14:59	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		02/01/26 16:25	02/03/26 14:59	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		02/01/26 16:25	02/03/26 14:59	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		02/01/26 16:25	02/03/26 14:59	1
beta-BHC	<0.098		0.098	ug/L		02/01/26 16:25	02/03/26 14:59	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		02/01/26 16:25	02/03/26 14:59	1
Bromacil	<0.098		0.098	ug/L		02/01/26 16:25	02/03/26 14:59	1
Butachlor	<0.049		0.049	ug/L		02/01/26 16:25	02/03/26 14:59	1
Butylbenzylphthalate	<0.49		0.49	ug/L		02/01/26 16:25	02/03/26 14:59	1
Chlorobenzilate	<0.098		0.098	ug/L		02/01/26 16:25	02/03/26 14:59	1
Chloroneb	<0.098		0.098	ug/L		02/01/26 16:25	02/03/26 14:59	1
Chlorothalonil (Draconil, Bravo)	<0.098		0.098	ug/L		02/01/26 16:25	02/03/26 14:59	1
Chlorpyrifos	<0.049		0.049	ug/L		02/01/26 16:25	02/03/26 14:59	1
Chrysene	<0.020		0.020	ug/L		02/01/26 16:25	02/03/26 14:59	1
delta-BHC	<0.098		0.098	ug/L		02/01/26 16:25	02/03/26 14:59	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		02/01/26 16:25	02/03/26 14:59	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		02/01/26 16:25	02/03/26 14:59	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		02/01/26 16:25	02/03/26 14:59	1
Dieldrin	<0.0098		0.0098	ug/L		02/01/26 16:25	02/03/26 14:59	1
Diethylphthalate	<0.49		0.49	ug/L		02/01/26 16:25	02/03/26 14:59	1
Dimethylphthalate	<0.49		0.49	ug/L		02/01/26 16:25	02/03/26 14:59	1
Di-n-butyl phthalate	<0.98		0.98	ug/L		02/01/26 16:25	02/03/26 14:59	1
Di-n-octyl phthalate	<0.098		0.098	ug/L		02/01/26 16:25	02/03/26 14:59	1
Endosulfan I (Alpha)	<0.098		0.098	ug/L		02/01/26 16:25	02/03/26 14:59	1
Endosulfan II (Beta)	<0.098		0.098	ug/L		02/01/26 16:25	02/03/26 14:59	1
Endosulfan sulfate	<0.098		0.098	ug/L		02/01/26 16:25	02/03/26 14:59	1
Endrin	<0.0098		0.0098	ug/L		02/01/26 16:25	02/03/26 14:59	1
Endrin aldehyde	<0.098		0.098	ug/L		02/01/26 16:25	02/03/26 14:59	1
EPTC	<0.098		0.098	ug/L		02/01/26 16:25	02/03/26 14:59	1

QC Sample Results

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

Job ID: 380-195000-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MB 380-202558/21-A
Matrix: Water
Analysis Batch: 203086

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202558

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Fluoranthene	<0.098		0.098	ug/L		02/01/26 16:25	02/03/26 14:59	1
Fluorene	<0.049		0.049	ug/L		02/01/26 16:25	02/03/26 14:59	1
gamma-Chlordane	<0.049		0.049	ug/L		02/01/26 16:25	02/03/26 14:59	1
Heptachlor	<0.0098		0.0098	ug/L		02/01/26 16:25	02/03/26 14:59	1
Heptachlor epoxide (isomer B)	<0.0098		0.0098	ug/L		02/01/26 16:25	02/03/26 14:59	1
Hexachlorobenzene	<0.049		0.049	ug/L		02/01/26 16:25	02/03/26 14:59	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		02/01/26 16:25	02/03/26 14:59	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		02/01/26 16:25	02/03/26 14:59	1
Isophorone	<0.098		0.098	ug/L		02/01/26 16:25	02/03/26 14:59	1
Lindane	<0.0098		0.0098	ug/L		02/01/26 16:25	02/03/26 14:59	1
Malathion	<0.098		0.098	ug/L		02/01/26 16:25	02/03/26 14:59	1
Methoxychlor	<0.049		0.049	ug/L		02/01/26 16:25	02/03/26 14:59	1
Metolachlor	<0.049		0.049	ug/L		02/01/26 16:25	02/03/26 14:59	1
Molinate	<0.098		0.098	ug/L		02/01/26 16:25	02/03/26 14:59	1
Naphthalene	<0.098		0.098	ug/L		02/01/26 16:25	02/03/26 14:59	1
Parathion	<0.098		0.098	ug/L		02/01/26 16:25	02/03/26 14:59	1
Pendimethalin (Penoxaline)	<0.098		0.098	ug/L		02/01/26 16:25	02/03/26 14:59	1
Phenanthrene	<0.039		0.039	ug/L		02/01/26 16:25	02/03/26 14:59	1
Propachlor	<0.049		0.049	ug/L		02/01/26 16:25	02/03/26 14:59	1
Pyrene	<0.049		0.049	ug/L		02/01/26 16:25	02/03/26 14:59	1
Simazine	<0.049		0.049	ug/L		02/01/26 16:25	02/03/26 14:59	1
Terbacil	<0.098		0.098	ug/L		02/01/26 16:25	02/03/26 14:59	1
Terbutylazine	<0.098		0.098	ug/L		02/01/26 16:25	02/03/26 14:59	1
Thiobencarb	<0.098		0.098	ug/L		02/01/26 16:25	02/03/26 14:59	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		02/01/26 16:25	02/03/26 14:59	1
trans-Nonachlor	<0.049		0.049	ug/L		02/01/26 16:25	02/03/26 14:59	1
Trifluralin	<0.098		0.098	ug/L		02/01/26 16:25	02/03/26 14:59	1

Tentatively Identified Compound	MB	MB	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
	Est. Result	Qualifier							
Undecane	3.24	T J N	ug/L		3.20	1120-21-4	02/01/26 16:25	02/03/26 14:59	1
Tridecane, 6-propyl-	0.526	T J N	ug/L		3.86	55045-10-8	02/01/26 16:25	02/03/26 14:59	1
Unknown	0.587	T J	ug/L		4.02	N/A	02/01/26 16:25	02/03/26 14:59	1
n-Hexadecanoic acid	0.567	T J N	ug/L		6.28	57-10-3	02/01/26 16:25	02/03/26 14:59	1
9-Octadecenamamide, (Z)-	1.05	T J N	ug/L		8.03	301-02-0	02/01/26 16:25	02/03/26 14:59	1
Unknown	0.918	T J	ug/L		15.14	N/A	02/01/26 16:25	02/03/26 14:59	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Nitro-m-xylene	99		70 - 130	02/01/26 16:25	02/03/26 14:59	1
Perylene-d12	96		70 - 130	02/01/26 16:25	02/03/26 14:59	1
Triphenylphosphate	104		70 - 130	02/01/26 16:25	02/03/26 14:59	1

Lab Sample ID: LCS 380-202558/23-A
Matrix: Water
Analysis Batch: 203086

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202558

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
1-Methylnaphthalene	1.97	2.05		ug/L		104	70 - 130
2,4'-DDD	1.97	2.18		ug/L		110	70 - 130

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QC Sample Results

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

Job ID: 380-195000-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCS 380-202558/23-A

Matrix: Water

Analysis Batch: 203086

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 202558

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec Limits
	Added	Result	Qualifier				
2,4'-DDE	1.97	2.32		ug/L		118	70 - 130
2,4'-DDT	1.97	2.20		ug/L		112	70 - 130
2,4-Dinitrotoluene	1.97	2.03		ug/L		103	70 - 130
2,6-Dinitrotoluene	1.97	2.05		ug/L		104	70 - 130
2-Methylnaphthalene	1.97	2.03		ug/L		103	70 - 130
4,4'-DDD	1.97	2.35		ug/L		120	70 - 130
4,4'-DDE	1.97	2.03		ug/L		103	70 - 130
4,4'-DDT	1.97	2.25		ug/L		114	70 - 130
Acenaphthene	1.97	2.04		ug/L		104	70 - 130
Acenaphthylene	1.97	2.09		ug/L		106	70 - 130
Acetochlor	1.97	2.28		ug/L		116	70 - 130
Alachlor	1.97	2.24		ug/L		114	70 - 130
alpha-BHC	1.97	2.01		ug/L		102	70 - 130
alpha-Chlordane	1.97	2.24		ug/L		114	70 - 130
Anthracene	1.97	1.89		ug/L		96	70 - 130
Atrazine	1.97	2.22		ug/L		113	70 - 130
Benz(a)anthracene	1.97	2.06		ug/L		104	70 - 130
Benzo[a]pyrene	1.97	2.22		ug/L		113	70 - 130
Benzo[b]fluoranthene	1.97	2.17		ug/L		110	70 - 130
Benzo[g,h,i]perylene	1.97	2.32		ug/L		118	70 - 130
Benzo[k]fluoranthene	1.97	2.26		ug/L		115	70 - 130
beta-BHC	1.97	2.03		ug/L		103	70 - 130
Bis(2-ethylhexyl) phthalate	1.97	2.48		ug/L		126	70 - 130
Bromacil	1.97	2.05		ug/L		104	70 - 130
Butachlor	1.97	2.37		ug/L		120	70 - 130
Butylbenzylphthalate	1.97	2.21		ug/L		112	70 - 130
Chlorobenzilate	1.97	2.36		ug/L		120	70 - 130
Chloroneb	1.97	2.11		ug/L		107	70 - 130
Chlorothalonil (Draconil, Bravo)	1.97	2.16		ug/L		110	70 - 130
Chlorpyrifos	1.97	2.15		ug/L		109	70 - 130
Chrysene	1.97	2.05		ug/L		104	70 - 130
delta-BHC	1.97	2.00		ug/L		102	70 - 130
Di(2-ethylhexyl)adipate	1.97	2.30		ug/L		117	70 - 130
Dibenz(a,h)anthracene	1.97	2.12		ug/L		108	70 - 130
Diclorvos (DDVP)	1.97	2.10		ug/L		107	70 - 130
Dieldrin	1.97	2.36		ug/L		120	70 - 130
Diethylphthalate	1.97	2.26		ug/L		115	70 - 130
Dimethylphthalate	1.97	2.13		ug/L		108	70 - 130
Di-n-butyl phthalate	3.94	4.65		ug/L		118	70 - 130
Di-n-octyl phthalate	1.97	2.23		ug/L		113	70 - 130
Endosulfan I (Alpha)	1.97	2.11		ug/L		107	70 - 130
Endosulfan II (Beta)	1.97	2.04		ug/L		103	70 - 130
Endosulfan sulfate	1.97	2.41		ug/L		122	70 - 130
Endrin	1.97	2.42		ug/L		123	70 - 130
Endrin aldehyde	1.97	2.10		ug/L		107	60 - 130
EPTC	1.97	2.15		ug/L		109	70 - 130
Fluoranthene	1.97	2.08		ug/L		106	70 - 130
Fluorene	1.97	1.96		ug/L		100	70 - 130
gamma-Chlordane	1.97	2.25		ug/L		114	70 - 130

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QC Sample Results

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

Job ID: 380-195000-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCS 380-202558/23-A

Matrix: Water

Analysis Batch: 203086

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 202558

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Heptachlor	1.97	2.20		ug/L		112	70 - 130
Heptachlor epoxide (isomer B)	1.97	2.03		ug/L		103	70 - 130
Hexachlorobenzene	1.97	1.94		ug/L		98	70 - 130
Hexachlorocyclopentadiene	1.97	2.08		ug/L		105	70 - 130
Indeno[1,2,3-cd]pyrene	1.97	2.21		ug/L		112	70 - 130
Isophorone	1.97	2.00		ug/L		102	70 - 130
Lindane	1.97	2.17		ug/L		110	70 - 130
Malathion	1.97	2.30		ug/L		117	70 - 130
Methoxychlor	1.97	2.20		ug/L		111	70 - 130
Metolachlor	1.97	2.26		ug/L		115	70 - 130
Molinate	1.97	2.16		ug/L		110	70 - 130
Naphthalene	1.97	2.04		ug/L		103	70 - 130
Parathion	1.97	2.22		ug/L		113	70 - 130
Pendimethalin (Penoxaline)	1.97	2.19		ug/L		111	70 - 130
Phenanthrene	1.97	2.05		ug/L		104	70 - 130
Propachlor	1.97	2.22		ug/L		113	70 - 130
Pyrene	1.97	2.10		ug/L		107	70 - 130
Simazine	1.97	2.08		ug/L		106	70 - 130
Terbacil	1.97	2.08		ug/L		106	70 - 130
Terbutylazine	1.97	2.27		ug/L		115	70 - 130
Thiobencarb	1.97	2.24		ug/L		114	70 - 130
trans-Nonachlor	1.97	2.24		ug/L		114	70 - 130
Trifluralin	1.97	2.08		ug/L		105	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	100		70 - 130
Perylene-d12	101		70 - 130
Triphenylphosphate	105		70 - 130

Lab Sample ID: MRL 380-202558/22-A

Matrix: Water

Analysis Batch: 203086

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 202558

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	0.0980	0.104		ug/L		106	50 - 150
2,4'-DDD	0.0980	0.0889	J	ug/L		91	50 - 150
2,4'-DDE	0.0980	0.0923	J	ug/L		94	50 - 150
2,4'-DDT	0.0980	0.101		ug/L		103	50 - 150
2,4-Dinitrotoluene	0.0980	0.0913	J	ug/L		93	50 - 150
2,6-Dinitrotoluene	0.0980	0.106		ug/L		108	50 - 150
2-Methylnaphthalene	0.0980	0.0953	J	ug/L		97	50 - 150
4,4'-DDD	0.0980	0.0877	J	ug/L		89	50 - 150
4,4'-DDE	0.0980	0.0893	J	ug/L		91	50 - 150
4,4'-DDT	0.0980	0.108		ug/L		110	50 - 150
Acenaphthene	0.0980	0.0856	J	ug/L		87	50 - 150
Acenaphthylene	0.0980	0.0880	J	ug/L		90	50 - 150
Acetochlor	0.0980	0.109		ug/L		111	50 - 150
Alachlor	0.0490	0.0500		ug/L		102	50 - 150

QC Sample Results

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

Job ID: 380-195000-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MRL 380-202558/22-A
Matrix: Water
Analysis Batch: 203086

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202558

Analyte	Spike	MRL	MRL	Unit	D	%Rec	%Rec Limits
	Added	Result	Qualifier				
alpha-BHC	0.0980	0.104		ug/L		106	50 - 150
alpha-Chlordane	0.0245	<0.028		ug/L		96	50 - 150
Anthracene	0.0196	<0.019		ug/L		95	50 - 150
Atrazine	0.0490	<0.047		ug/L		96	50 - 150
Benz(a)anthracene	0.0490	0.0471	J	ug/L		96	50 - 150
Benzo[a]pyrene	0.0196	0.0209		ug/L		106	50 - 150
Benzo[b]fluoranthene	0.0196	0.0228		ug/L		117	50 - 150
Benzo[g,h,i]perylene	0.0490	0.0417	J	ug/L		85	50 - 150
Benzo[k]fluoranthene	0.0196	0.0235		ug/L		120	50 - 150
beta-BHC	0.0980	0.110		ug/L		112	50 - 150
Bis(2-ethylhexyl) phthalate	0.588	0.623		ug/L		106	50 - 150
Bromacil	0.0980	0.112		ug/L		114	50 - 150
Butachlor	0.0490	0.0588		ug/L		120	50 - 150
Butylbenzylphthalate	0.490	0.477	J	ug/L		97	50 - 150
Chlorobenzilate	0.0980	0.0863	J	ug/L		88	50 - 150
Chloroneb	0.0980	0.0876	J	ug/L		89	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0980	0.0992		ug/L		101	50 - 150
Chlorpyrifos	0.0490	0.0480	J	ug/L		98	50 - 150
Chrysene	0.0196	0.0199	J	ug/L		101	50 - 150
delta-BHC	0.0980	0.0944	J	ug/L		96	50 - 150
Di(2-ethylhexyl)adipate	0.588	0.568	J	ug/L		97	50 - 150
Dibenz(a,h)anthracene	0.0490	0.0467	J	ug/L		95	50 - 150
Diclorvos (DDVP)	0.0490	0.0503		ug/L		103	50 - 150
Dieldrin	0.00980	0.0114		ug/L		116	50 - 150
Diethylphthalate	0.490	0.523		ug/L		107	50 - 150
Dimethylphthalate	0.490	0.494		ug/L		101	50 - 150
Di-n-butyl phthalate	0.490	0.482	J	ug/L		98	49 - 243
Di-n-octyl phthalate	0.0980	0.0916	J	ug/L		93	50 - 150
Endosulfan I (Alpha)	0.0980	0.0832	J	ug/L		85	50 - 150
Endosulfan II (Beta)	0.0980	0.101		ug/L		104	50 - 150
Endosulfan sulfate	0.0980	0.0947	J	ug/L		97	50 - 150
Endrin	0.00980	0.00751	J	ug/L		77	50 - 150
Endrin aldehyde	0.0980	0.0931	J	ug/L		95	50 - 150
EPTC	0.0980	0.0935	J	ug/L		95	50 - 150
Fluoranthene	0.0980	0.0874	J	ug/L		89	50 - 150
Fluorene	0.0490	<0.049		ug/L		97	50 - 150
gamma-Chlordane	0.0245	0.0223	J	ug/L		91	50 - 150
Heptachlor	0.00980	0.00828	J	ug/L		84	50 - 150
Heptachlor epoxide (isomer B)	0.00980	0.00999		ug/L		102	50 - 150
Hexachlorobenzene	0.0490	0.0458	J	ug/L		93	50 - 150
Hexachlorocyclopentadiene	0.0490	0.0517		ug/L		105	50 - 150
Indeno[1,2,3-cd]pyrene	0.0490	0.0463	J	ug/L		95	50 - 150
Isophorone	0.0980	0.102		ug/L		104	50 - 150
Lindane	0.00980	0.00895	J	ug/L		91	50 - 150
Malathion	0.0980	0.0906	J	ug/L		92	50 - 150
Methoxychlor	0.0490	0.0468	J	ug/L		96	50 - 150
Metolachlor	0.0490	0.0543		ug/L		111	50 - 150
Molinate	0.0980	0.0968	J	ug/L		99	50 - 150
Naphthalene	0.0980	0.108		ug/L		110	50 - 150

Eurofins Pomona

QC Sample Results

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

Job ID: 380-195000-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MRL 380-202558/22-A

Matrix: Water

Analysis Batch: 203086

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 202558

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Parathion	0.0980	0.0895	J	ug/L		91	50 - 150
Pendimethalin (Penoxaline)	0.0980	0.0978	J	ug/L		100	50 - 150
Phenanthrene	0.0392	0.0345	J	ug/L		88	50 - 150
Propachlor	0.0490	0.0493		ug/L		101	50 - 150
Pyrene	0.0490	0.0437	J	ug/L		89	50 - 150
Simazine	0.0490	0.0510		ug/L		104	50 - 150
Terbacil	0.0980	0.103		ug/L		105	50 - 150
Terbutylazine	0.0980	0.0905	J	ug/L		92	50 - 150
Thiobencarb	0.0980	0.0924	J	ug/L		94	50 - 150
trans-Nonachlor	0.0245	<0.025		ug/L		85	50 - 150
Trifluralin	0.0980	0.0945	J	ug/L		96	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	MRL Limits
2-Nitro-m-xylene	99		70 - 130
Perylene-d12	95		70 - 130
Triphenylphosphate	100		70 - 130

Lab Sample ID: 380-194122-AT-1-A MS

Matrix: Water

Analysis Batch: 203086

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 202558

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene			1.98	2.06		ug/L			-
2,4'-DDD	<0.099		1.98	2.14		ug/L		108	70 - 130
2,4'-DDE	<0.099		1.98	2.15		ug/L		108	70 - 130
2,4'-DDT	<0.099		1.98	1.97		ug/L		99	70 - 130
2,4-Dinitrotoluene	<0.099		1.98	2.10		ug/L		106	70 - 130
2,6-Dinitrotoluene	<0.099		1.98	2.11		ug/L		106	70 - 130
2-Methylnaphthalene			1.98	2.04		ug/L			-
4,4'-DDD	<0.099		1.98	2.24		ug/L		113	70 - 130
4,4'-DDE	<0.099		1.98	1.77		ug/L		89	70 - 130
4,4'-DDT	<0.099		1.98	1.93		ug/L		97	70 - 130
Acenaphthene	<0.099		1.98	2.06		ug/L		104	70 - 130
Acenaphthylene	<0.099		1.98	2.11		ug/L		106	70 - 130
Acetochlor	<0.099		1.98	2.24		ug/L		113	70 - 130
Alachlor	<0.049		1.98	2.26		ug/L		114	70 - 130
alpha-BHC	<0.099		1.98	2.01		ug/L		102	70 - 130
alpha-Chlordane	<0.049		1.98	2.21		ug/L		112	70 - 130
Anthracene	<0.020		1.98	1.43		ug/L		72	70 - 130
Atrazine	<0.049		1.98	2.25		ug/L		113	70 - 130
Benz(a)anthracene	<0.049		1.98	1.82		ug/L		92	70 - 130
Benzo[a]pyrene	<0.020		1.98	2.02		ug/L		102	70 - 130
Benzo[b]fluoranthene	<0.020		1.98	2.30		ug/L		116	70 - 130
Benzo[g,h,i]perylene	<0.049		1.98	2.09		ug/L		105	70 - 130
Benzo[k]fluoranthene	<0.020		1.98	2.25		ug/L		114	70 - 130
beta-BHC	<0.099		1.98	2.05		ug/L		103	70 - 130
Bis(2-ethylhexyl) phthalate	<0.59		1.98	2.11		ug/L		106	70 - 130
Bromacil	<0.099		1.98	2.19		ug/L		110	70 - 130

QC Sample Results

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

Job ID: 380-195000-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: 380-194122-AT-1-A MS

Client Sample ID: Matrix Spike

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 203086

Prep Batch: 202558

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
Butachlor	<0.049		1.98	2.37		ug/L		120	70 - 130
Butylbenzylphthalate	<0.49		1.98	2.21		ug/L		112	70 - 130
Chlorobenzilate	<0.099		1.98	2.39		ug/L		120	70 - 130
Chloroneb	<0.099		1.98	2.10		ug/L		106	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.099		1.98	2.06		ug/L		104	70 - 130
Chlorpyrifos	<0.049		1.98	2.22		ug/L		112	70 - 130
Chrysene	<0.020		1.98	2.12		ug/L		107	70 - 130
delta-BHC	<0.099		1.98	2.03		ug/L		102	70 - 130
Di(2-ethylhexyl)adipate	<0.59		1.98	1.64		ug/L		83	70 - 130
Dibenz(a,h)anthracene	<0.049		1.98	2.00		ug/L		101	70 - 130
Diclorvos (DDVP)	<0.049		1.98	2.14		ug/L		108	70 - 130
Dieldrin	<0.0099		1.98	2.33		ug/L		118	70 - 130
Diethylphthalate	<0.49		1.98	2.26		ug/L		114	70 - 130
Dimethylphthalate	<0.49		1.98	2.13		ug/L		107	70 - 130
Di-n-butyl phthalate	<0.99		3.96	4.74		ug/L		120	70 - 130
Di-n-octyl phthalate	<0.099		1.98	1.84		ug/L		93	70 - 130
Endosulfan I (Alpha)	<0.099		1.98	2.06		ug/L		104	70 - 130
Endosulfan II (Beta)	<0.099		1.98	2.00		ug/L		101	70 - 130
Endosulfan sulfate	<0.099		1.98	2.42		ug/L		122	70 - 130
Endrin	<0.0099		1.98	2.39		ug/L		121	70 - 130
Endrin aldehyde	<0.099		1.98	1.66		ug/L		84	60 - 130
EPTC	<0.099		1.98	2.16		ug/L		109	70 - 130
Fluoranthene	<0.099		1.98	2.09		ug/L		106	70 - 130
Fluorene	<0.049		1.98	1.97		ug/L		100	70 - 130
gamma-Chlordane	<0.049		1.98	2.19		ug/L		110	70 - 130
Heptachlor	<0.0099		1.98	2.19		ug/L		111	70 - 130
Heptachlor epoxide (isomer B)	<0.0099		1.98	2.05		ug/L		103	70 - 130
Hexachlorobenzene	<0.049		1.98	1.93		ug/L		97	70 - 130
Hexachlorocyclopentadiene	<0.049		1.98	2.11		ug/L		107	70 - 130
Indeno[1,2,3-cd]pyrene	<0.049		1.98	2.06		ug/L		104	70 - 130
Isophorone	<0.099		1.98	2.02		ug/L		102	70 - 130
Lindane	<0.0099		1.98	2.19		ug/L		110	70 - 130
Malathion	<0.099		1.98	2.31		ug/L		116	70 - 130
Methoxychlor	<0.049	F1	1.98	2.69	F1	ug/L		136	70 - 130
Metolachlor	<0.049		1.98	2.27		ug/L		115	70 - 130
Molinate	<0.099		1.98	2.16		ug/L		109	70 - 130
Naphthalene	<0.099		1.98	2.04		ug/L		103	70 - 130
Parathion	<0.099		1.98	2.23		ug/L		112	70 - 130
Pendimethalin (Penoxaline)	<0.099		1.98	2.24		ug/L		113	70 - 130
Phenanthrene	<0.040		1.98	2.05		ug/L		103	70 - 130
Propachlor	<0.049		1.98	2.21		ug/L		112	70 - 130
Pyrene	<0.049		1.98	2.11		ug/L		106	70 - 130
Simazine	<0.049		1.98	2.09		ug/L		105	70 - 130
Terbacil	<0.099		1.98	2.09		ug/L		106	70 - 130
Terbutylazine	<0.099		1.98	2.30		ug/L		116	70 - 130
Thiobencarb	<0.099		1.98	2.26		ug/L		114	70 - 130
trans-Nonachlor	<0.049		1.98	2.11		ug/L		106	70 - 130
Trifluralin	<0.099		1.98	2.07		ug/L		104	70 - 130

QC Sample Results

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

Job ID: 380-195000-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: 380-194122-AT-1-A MS
Matrix: Water
Analysis Batch: 203086

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 202558

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	100		70 - 130
Perylene-d12	100		70 - 130
Triphenylphosphate	107		70 - 130

Lab Sample ID: 380-194072-M-1-A DU
Matrix: Water
Analysis Batch: 203086

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 202558

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

QC Sample Results

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

Job ID: 380-195000-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: 380-194072-M-1-A DU

Matrix: Water

Analysis Batch: 203086

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 202558

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

Surrogate	DU	DU	Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	100		70 - 130
Perylene-d12	93		70 - 130
Triphenylphosphate	104		70 - 130

QC Sample Results

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

Job ID: 380-195000-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MB 570-689280/1-A
Matrix: Water
Analysis Batch: 691696

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 689280

<i>Tentatively Identified Compound</i>	<i>Est. Result</i>	<i>Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>RT</i>	<i>CAS No.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Tentatively Identified Compound</i>	<i>None</i>		<i>ug/L</i>			<i>N/A</i>	<i>01/30/26 12:01</i>	<i>02/05/26 08:34</i>	<i>1</i>

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>2,4,6-Tribromophenol (Surr)</i>	75		33 - 139	<i>01/30/26 12:01</i>	<i>02/05/26 08:34</i>	<i>1</i>
<i>2-Fluorobiphenyl (Surr)</i>	78		33 - 126	<i>01/30/26 12:01</i>	<i>02/05/26 08:34</i>	<i>1</i>
<i>2-Fluorophenol (Surr)</i>	58		12 - 120	<i>01/30/26 12:01</i>	<i>02/05/26 08:34</i>	<i>1</i>
<i>Nitrobenzene-d5 (Surr)</i>	72		36 - 120	<i>01/30/26 12:01</i>	<i>02/05/26 08:34</i>	<i>1</i>
<i>Phenol-d6 (Surr)</i>	30		10 - 120	<i>01/30/26 12:01</i>	<i>02/05/26 08:34</i>	<i>1</i>
<i>p-Terphenyl-d14 (Surr)</i>	84		47 - 131	<i>01/30/26 12:01</i>	<i>02/05/26 08:34</i>	<i>1</i>

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

Lab Sample ID: MB 570-689280/1-A
Matrix: Water
Analysis Batch: 691132

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 689280

<i>Analyte</i>	<i>Result</i>	<i>Qualifier</i>	<i>RL</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1-Methylnaphthalene	<0.20		0.20	ug/L		<i>01/30/26 12:01</i>	<i>02/04/26 07:57</i>	<i>1</i>
2-Methylnaphthalene	<0.20		0.20	ug/L		<i>01/30/26 12:01</i>	<i>02/04/26 07:57</i>	<i>1</i>
Acenaphthene	<0.20		0.20	ug/L		<i>01/30/26 12:01</i>	<i>02/04/26 07:57</i>	<i>1</i>
Acenaphthylene	<0.20		0.20	ug/L		<i>01/30/26 12:01</i>	<i>02/04/26 07:57</i>	<i>1</i>
Anthracene	<0.20		0.20	ug/L		<i>01/30/26 12:01</i>	<i>02/04/26 07:57</i>	<i>1</i>
Benzo[a]anthracene	<0.20		0.20	ug/L		<i>01/30/26 12:01</i>	<i>02/04/26 07:57</i>	<i>1</i>
Benzo[a]pyrene	<0.20		0.20	ug/L		<i>01/30/26 12:01</i>	<i>02/04/26 07:57</i>	<i>1</i>
Benzo[b]fluoranthene	<0.20		0.20	ug/L		<i>01/30/26 12:01</i>	<i>02/04/26 07:57</i>	<i>1</i>
Benzo[g,h,i]perylene	<0.20		0.20	ug/L		<i>01/30/26 12:01</i>	<i>02/04/26 07:57</i>	<i>1</i>
Benzo[k]fluoranthene	<0.20		0.20	ug/L		<i>01/30/26 12:01</i>	<i>02/04/26 07:57</i>	<i>1</i>
Chrysene	<0.20		0.20	ug/L		<i>01/30/26 12:01</i>	<i>02/04/26 07:57</i>	<i>1</i>
Dibenz(a,h)anthracene	<0.20		0.20	ug/L		<i>01/30/26 12:01</i>	<i>02/04/26 07:57</i>	<i>1</i>
Fluoranthene	<0.20		0.20	ug/L		<i>01/30/26 12:01</i>	<i>02/04/26 07:57</i>	<i>1</i>
Fluorene	<0.20		0.20	ug/L		<i>01/30/26 12:01</i>	<i>02/04/26 07:57</i>	<i>1</i>
Indeno[1,2,3-cd]pyrene	<0.20		0.20	ug/L		<i>01/30/26 12:01</i>	<i>02/04/26 07:57</i>	<i>1</i>
Naphthalene	<0.20		0.20	ug/L		<i>01/30/26 12:01</i>	<i>02/04/26 07:57</i>	<i>1</i>
Phenanthrene	<0.20		0.20	ug/L		<i>01/30/26 12:01</i>	<i>02/04/26 07:57</i>	<i>1</i>
Pyrene	<0.20		0.20	ug/L		<i>01/30/26 12:01</i>	<i>02/04/26 07:57</i>	<i>1</i>

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>2,4,6-Tribromophenol (Surr)</i>	85		28 - 127	<i>01/30/26 12:01</i>	<i>02/04/26 07:57</i>	<i>1</i>
<i>2-Fluorobiphenyl (Surr)</i>	73		31 - 120	<i>01/30/26 12:01</i>	<i>02/04/26 07:57</i>	<i>1</i>
<i>2-Fluorophenol (Surr)</i>	48		17 - 120	<i>01/30/26 12:01</i>	<i>02/04/26 07:57</i>	<i>1</i>
<i>Nitrobenzene-d5 (Surr)</i>	77		27 - 120	<i>01/30/26 12:01</i>	<i>02/04/26 07:57</i>	<i>1</i>
<i>Phenol-d6 (Surr)</i>	32		10 - 120	<i>01/30/26 12:01</i>	<i>02/04/26 07:57</i>	<i>1</i>
<i>p-Terphenyl-d14 (Surr)</i>	74		45 - 120	<i>01/30/26 12:01</i>	<i>02/04/26 07:57</i>	<i>1</i>

QC Sample Results

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

Job ID: 380-195000-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCS 570-689280/2-A

Matrix: Water

Analysis Batch: 691132

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 689280

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
1-Methylnaphthalene	20.0	18.7		ug/L		93	47 - 120	
2-Methylnaphthalene	20.0	18.0		ug/L		90	43 - 120	
Acenaphthene	20.0	18.1		ug/L		91	60 - 132	
Acenaphthylene	20.0	18.5		ug/L		93	54 - 126	
Anthracene	20.0	18.0		ug/L		90	43 - 120	
Benzo[a]anthracene	20.0	18.8		ug/L		94	42 - 133	
Benzo[a]pyrene	20.0	19.2		ug/L		96	32 - 148	
Benzo[b]fluoranthene	20.0	19.0		ug/L		95	42 - 140	
Benzo[g,h,i]perylene	20.0	17.3		ug/L		87	1 - 195	
Benzo[k]fluoranthene	20.0	18.2		ug/L		91	25 - 146	
Chrysene	20.0	18.2		ug/L		91	44 - 140	
Dibenz(a,h)anthracene	20.0	18.2		ug/L		91	1 - 200	
Fluoranthene	20.0	18.6		ug/L		93	43 - 121	
Fluorene	20.0	18.3		ug/L		92	70 - 120	
Indeno[1,2,3-cd]pyrene	20.0	18.2		ug/L		91	1 - 151	
Naphthalene	20.0	18.0		ug/L		90	36 - 120	
Phenanthrene	20.0	17.9		ug/L		89	65 - 120	
Pyrene	20.0	19.5		ug/L		98	70 - 120	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	98		28 - 127
2-Fluorobiphenyl (Surr)	87		31 - 120
2-Fluorophenol (Surr)	63		17 - 120
Nitrobenzene-d5 (Surr)	91		27 - 120
Phenol-d6 (Surr)	44		10 - 120
p-Terphenyl-d14 (Surr)	94		45 - 120

Lab Sample ID: LCSD 570-689280/3-A

Matrix: Water

Analysis Batch: 691132

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 689280

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	
							Limits		RPD	Limit
1-Methylnaphthalene	20.0	16.7		ug/L		83	47 - 120	11	20	
2-Methylnaphthalene	20.0	16.5		ug/L		83	43 - 120	8	20	
Acenaphthene	20.0	16.0		ug/L		80	60 - 132	12	29	
Acenaphthylene	20.0	16.5		ug/L		83	54 - 126	11	45	
Anthracene	20.0	16.3		ug/L		81	43 - 120	10	40	
Benzo[a]anthracene	20.0	16.9		ug/L		85	42 - 133	10	32	
Benzo[a]pyrene	20.0	17.0		ug/L		85	32 - 148	12	43	
Benzo[b]fluoranthene	20.0	16.7		ug/L		84	42 - 140	13	43	
Benzo[g,h,i]perylene	20.0	15.7		ug/L		79	1 - 195	9	61	
Benzo[k]fluoranthene	20.0	16.8		ug/L		84	25 - 146	8	38	
Chrysene	20.0	16.7		ug/L		83	44 - 140	9	53	
Dibenz(a,h)anthracene	20.0	16.7		ug/L		83	1 - 200	9	75	
Fluoranthene	20.0	16.8		ug/L		84	43 - 121	10	40	
Fluorene	20.0	16.4		ug/L		82	70 - 120	11	23	
Indeno[1,2,3-cd]pyrene	20.0	16.5		ug/L		83	1 - 151	10	60	
Naphthalene	20.0	16.1		ug/L		80	36 - 120	11	39	

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QC Sample Results

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

Job ID: 380-195000-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCSD 570-689280/3-A
Matrix: Water
Analysis Batch: 691132

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 689280

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenanthrene	20.0	16.1		ug/L		80	65 - 120	10	24
Pyrene	20.0	17.7		ug/L		89	70 - 120	10	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
2,4,6-Tribromophenol (Surr)	81		28 - 127
2-Fluorobiphenyl (Surr)	76		31 - 120
2-Fluorophenol (Surr)	57		17 - 120
Nitrobenzene-d5 (Surr)	80		27 - 120
Phenol-d6 (Surr)	39		10 - 120
p-Terphenyl-d14 (Surr)	84		45 - 120

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

Lab Sample ID: MB 570-691227/6
Matrix: Water
Analysis Batch: 691227

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			02/04/26 12:30	1

Surrogate	MB %Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		38 - 134		02/04/26 12:30	1

Lab Sample ID: LCS 570-691227/4
Matrix: Water
Analysis Batch: 691227

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	350		ug/L		87	78 - 120

Surrogate	LCS %Recovery	LCS Qualifier	LCS Limits
4-Bromofluorobenzene (Surr)	77		38 - 134

Lab Sample ID: LCSD 570-691227/5
Matrix: Water
Analysis Batch: 691227

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	362		ug/L		91	78 - 120	3	10

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	83		38 - 134

QC Sample Results

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

Job ID: 380-195000-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MRL 570-691227/7

Matrix: Water

Analysis Batch: 691227

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (C4-C13)	10.0	<7.9		ug/L		66	50 - 150
Surrogate		MRL %Recovery	MRL Qualifier				Limits
4-Bromofluorobenzene (Surr)		80					38 - 134

Lab Sample ID: 380-195023-B-1 MS

Matrix: Water

Analysis Batch: 691227

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	410		ug/L		103	68 - 122
Surrogate		MS %Recovery		MS Qualifier					Limits
4-Bromofluorobenzene (Surr)		94							38 - 134

Lab Sample ID: 380-195023-C-1 MSD

Matrix: Water

Analysis Batch: 691227

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	426		ug/L		107	68 - 122	4	18
Surrogate		MSD %Recovery		MSD Qualifier					Limits		
4-Bromofluorobenzene (Surr)		93							38 - 134		

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

Lab Sample ID: MB 570-689963/1-A

Matrix: Water

Analysis Batch: 692930

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 689963

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<25		25	ug/L		02/02/26 09:35	02/06/26 14:57	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		02/02/26 09:35	02/06/26 14:57	1
C8-C18	<25		25	ug/L		02/02/26 09:35	02/06/26 14:57	1
Surrogate		MB %Recovery				Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)		105				02/02/26 09:35	02/06/26 14:57	1

Lab Sample ID: LCS 570-689963/2-A

Matrix: Water

Analysis Batch: 692930

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 689963

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
C10-C28	1600	1400		ug/L		88	56 - 127

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QC Sample Results

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

Job ID: 380-195000-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCS 570-689963/2-A
Matrix: Water
Analysis Batch: 692930

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 689963

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

Lab Sample ID: LCSD 570-689963/3-A
Matrix: Water
Analysis Batch: 692930

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 689963

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
C10-C28	1600	1470		ug/L		92	56 - 127	5	23	

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
<i>n-Octacosane (Surr)</i>	105		60 - 130

Lab Sample ID: MRL 570-689963/4-A
Matrix: Water
Analysis Batch: 692930

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 689963

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
C10-C28	0.0200	<0.020		mg/L		96	50 - 150			

	MRL	MRL	
Surrogate	%Recovery	Qualifier	Limits
<i>n-Octacosane (Surr)</i>	94		60 - 130

Lab Sample ID: 380-194998-C-1-A MS
Matrix: Water
Analysis Batch: 692930

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 689963

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
									Limits	RPD		
C10-C28	<26		1640	1720		ug/L		105	70 - 130			

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
<i>n-Octacosane (Surr)</i>	111		60 - 130

Lab Sample ID: 380-194998-D-1-A MSD
Matrix: Water
Analysis Batch: 692930

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 689963

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
									Limits	RPD		
C10-C28	<26		1650	1530		ug/L		93	70 - 130	12	20	

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
<i>n-Octacosane (Surr)</i>	97		60 - 130

QC Sample Results

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

Job ID: 380-195000-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: 380-195023-B-1-A MSD

Matrix: Water

Analysis Batch: 692930

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 689963

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
C10-C28	<26		1640	1500		ug/L		92	70 - 130	4	20
Surrogate	%Recovery	MSD Qualifier	MSD Limits								
<i>n-Octacosane (Surr)</i>	95		60 - 130								

Lab Sample ID: 380-195023-C-1-A MS

Matrix: Water

Analysis Batch: 692930

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 689963

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
C10-C28	<26		1610	1570		ug/L		98	70 - 130		
Surrogate	%Recovery	MS Qualifier	MS Limits								
<i>n-Octacosane (Surr)</i>	102		60 - 130								

Lab Sample ID: 380-195033-B-1-B MS

Matrix: Water

Analysis Batch: 692930

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 689963

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
C10-C28	<26		1670	1630		ug/L		97	70 - 130		
Surrogate	%Recovery	MS Qualifier	MS Limits								
<i>n-Octacosane (Surr)</i>	103		60 - 130								

Lab Sample ID: 380-195033-B-1-C MSD

Matrix: Water

Analysis Batch: 692930

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 689963

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
C10-C28	<26		1650	1620		ug/L		98	70 - 130	0	20
Surrogate	%Recovery	MSD Qualifier	MSD Limits								
<i>n-Octacosane (Surr)</i>	105		60 - 130								

QC Association Summary

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

Job ID: 380-195000-1
 SDG: Weekly: Halawa Shaft Viewing Pool

GC/MS Semi VOA

Prep Batch: 202558

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-195000-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	525.2	
MB 380-202558/21-A	Method Blank	Total/NA	Water	525.2	
LCS 380-202558/23-A	Lab Control Sample	Total/NA	Water	525.2	
MRL 380-202558/22-A	Lab Control Sample	Total/NA	Water	525.2	
380-194122-AT-1-A MS	Matrix Spike	Total/NA	Water	525.2	
380-194072-M-1-A DU	Duplicate	Total/NA	Water	525.2	

Analysis Batch: 203086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-195000-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	525.2	202558
MB 380-202558/21-A	Method Blank	Total/NA	Water	525.2	202558
LCS 380-202558/23-A	Lab Control Sample	Total/NA	Water	525.2	202558
MRL 380-202558/22-A	Lab Control Sample	Total/NA	Water	525.2	202558
380-194122-AT-1-A MS	Matrix Spike	Total/NA	Water	525.2	202558
380-194072-M-1-A DU	Duplicate	Total/NA	Water	525.2	202558

Prep Batch: 689280

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-195000-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	625.1	
MB 570-689280/1-A	Method Blank	Total/NA	Water	625.1	
LCS 570-689280/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 570-689280/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	

Analysis Batch: 691132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-195000-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	625.1 SIM	689280
MB 570-689280/1-A	Method Blank	Total/NA	Water	625.1 SIM	689280
LCS 570-689280/2-A	Lab Control Sample	Total/NA	Water	625.1 SIM	689280
LCSD 570-689280/3-A	Lab Control Sample Dup	Total/NA	Water	625.1 SIM	689280

Analysis Batch: 691696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-195000-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	625.1	689280
MB 570-689280/1-A	Method Blank	Total/NA	Water	625.1	689280

GC VOA

Analysis Batch: 691227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-195000-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	8015B GRO LL	
380-195000-2	TB: HALAWA SHAFT VIEWING POOL	Total/NA	Water	8015B GRO LL	
MB 570-691227/6	Method Blank	Total/NA	Water	8015B GRO LL	
LCS 570-691227/4	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-691227/5	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	
MRL 570-691227/7	Lab Control Sample	Total/NA	Water	8015B GRO LL	
380-195023-B-1 MS	Matrix Spike	Total/NA	Water	8015B GRO LL	
380-195023-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8015B GRO LL	

QC Association Summary

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

Job ID: 380-195000-1
 SDG: Weekly: Halawa Shaft Viewing Pool

GC Semi VOA

Prep Batch: 689963

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-195000-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	3510C	
MB 570-689963/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-689963/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-689963/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-689963/4-A	Lab Control Sample	Total/NA	Water	3510C	
380-194998-C-1-A MS	Matrix Spike	Total/NA	Water	3510C	
380-194998-D-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	
380-195023-B-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	
380-195023-C-1-A MS	Matrix Spike	Total/NA	Water	3510C	
380-195033-B-1-B MS	Matrix Spike	Total/NA	Water	3510C	
380-195033-B-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

Analysis Batch: 692930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-195000-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	8015B	689963
MB 570-689963/1-A	Method Blank	Total/NA	Water	8015B	689963
LCS 570-689963/2-A	Lab Control Sample	Total/NA	Water	8015B	689963
LCSD 570-689963/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	689963
MRL 570-689963/4-A	Lab Control Sample	Total/NA	Water	8015B	689963
380-194998-C-1-A MS	Matrix Spike	Total/NA	Water	8015B	689963
380-194998-D-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	8015B	689963
380-195023-B-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	8015B	689963
380-195023-C-1-A MS	Matrix Spike	Total/NA	Water	8015B	689963
380-195033-B-1-B MS	Matrix Spike	Total/NA	Water	8015B	689963
380-195033-B-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	8015B	689963

Lab Chronicle

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

Job ID: 380-195000-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: HALAWA SHAFT VIEWING POOL

Lab Sample ID: 380-195000-1

Date Collected: 01/27/26 09:30

Matrix: Water

Date Received: 01/29/26 09:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			202558	IQ42	EA POM	02/01/26 16:25
Total/NA	Analysis	525.2		1	203086	Q8LA	EA POM	02/03/26 22:43
Total/NA	Prep	625.1			689280	OAJ3	EET CAL 4	01/30/26 12:01
Total/NA	Analysis	625.1		1	691696	PQS1	EET CAL 4	02/05/26 09:23
Total/NA	Prep	625.1			689280	OAJ3	EET CAL 4	01/30/26 12:01
Total/NA	Analysis	625.1 SIM		1	691132	PQS1	EET CAL 4	02/04/26 14:08
Total/NA	Analysis	8015B GRO LL		1	691227	A9VE	EET CAL 4	02/04/26 14:23
Total/NA	Prep	3510C			689963	TVD6	EET CAL 4	02/03/26 09:03
Total/NA	Analysis	8015B		1	692930	H6FE	EET CAL 4	02/06/26 22:34

Client Sample ID: TB: HALAWA SHAFT VIEWING POOL

Lab Sample ID: 380-195000-2

Date Collected: 01/27/26 09:30

Matrix: Water

Date Received: 01/29/26 09:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	691227	A9VE	EET CAL 4	02/04/26 19:03

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: 380-195000-1
 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

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

Accreditation/Certification Summary

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

Job ID: 380-195000-1
SDG: Weekly: Halawa Shaft Viewing Pool

Laboratory: Eurofins Calscience (Continued)

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

Authority	Program	Identification Number	Expiration Date
California	State	3082	07-31-26
Kansas	NELAP	E-10420	07-31-26
Nevada	State	CA00111	07-31-26
Oregon	NELAP	4175	02-02-27
USDA	US Federal Programs	525-23-159-97150	06-08-26
Utah	NELAP	CA00111	02-28-26
Washington	State	C916	10-11-26

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Method Summary

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

Job ID: 380-195000-1
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: 380-195000-1
SDG: Weekly: Halawa Shaft Viewing Pool

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
380-195000-1	HALAWA SHAFT VIEWING POOL	Water	01/27/26 09:30	01/29/26 09:52	Hawaii
380-195000-2	TB: HALAWA SHAFT VIEWING POOL	Water	01/27/26 09:30	01/29/26 09:52	Hawaii

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ORIGIN ID: HIKA (808) 748-5940
BWS CHEM LAB
HONOLULU BOARD OF WATER SUPPLY
630 S. BERETANIA ST
CHEMICAL LABORATORY
HONOLULU, HI 96843
UNITED STATES US

SHIP DATE: 27JAN26
ACTWGHT: 62.00 LB
CAD: 25805652INET4535

BILL RECIPIENT

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

POMONA CA 91768

(626) 386-1100 REF:

DEPT:



WED - 28 JAN 10:30A
PRIORITY OVERNIGHT

3 of 3

MPS# **8882 4657 2570**

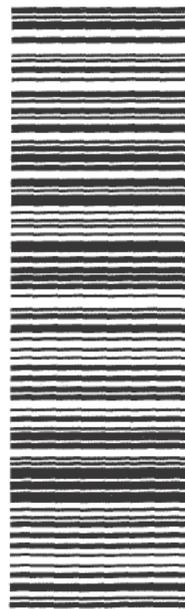
0263

Mstr# 8882 4657 2559

WM ONTA

91768

CA-US ONT



*Smith Prabek 1/19/26 9:52
401A) 1.7-0.2 = 1.5 gal Thawed*

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

SHIP DATE: 27 JAN 26
ACTWGT 58.00 LB
CAD 258050552/INET/4535

BILL RECEIPT

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

58KJ4747B/4848

POMONA CA 91768

(626) 386-1100 REF

PO. INV. DEPT.



WED - 28 JAN 10:30A
PRIORITY OVERNIGHT

3 of 3

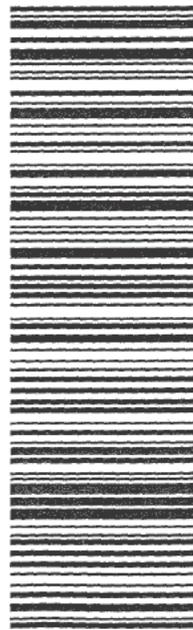
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0263 Mstr# 8882 4967 8250

WM ONTA

91768

CA-US ONT



751X 3.8/3.8 9e1 frozen
/ANK 1/24/26 952

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

SHIP DATE: 27 JAN 26
ACTWGT 62.00 LB
CAD: 25805652INET4535

BILL RECIPIENT

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

58KJA77B/484B

POMONA CA 91768

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PO:

DEPT:



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WED - 28 JAN 10:30A

2 of 3

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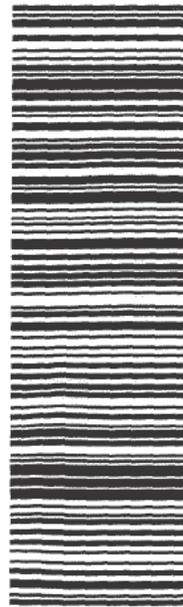
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Mstr# 8882 4657 2559

WM ONTA

91768

CA-US ONT



*FSIA 5.0/5.0 # 9c1 Frozen
/ WCA 1/29/26 952*

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

SHIP DATE 27JAN26
ACTWGT 56.00 LB
CAD-258050552/INET14535
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EUROFINS DRINKING WATER TESTING
941 CORPORATE CENTER DR

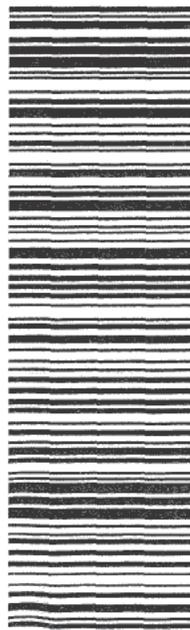
58KJ4747B/484B

POMONA CA 91768 REF
(626) 386-1100 INV

PO: DEPT.



2 of 3 WED - 28 JAN 10:30A
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0263
Mst# 8882 4967 8250
WM ONTA 91768
CA-US ONT



751A 3.713A 9e1 Frezca
/ANK 1/29/26 952

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ORIGIN ID HIKA (808) 746-5840
BWS CHEMLAB
HONOLULU BOARD OF WATER SUPPLY
630 S. BERETANIA ST.
CHEMICAL LABORATORY
HONOLULU HI 96843
UNITED STATES US

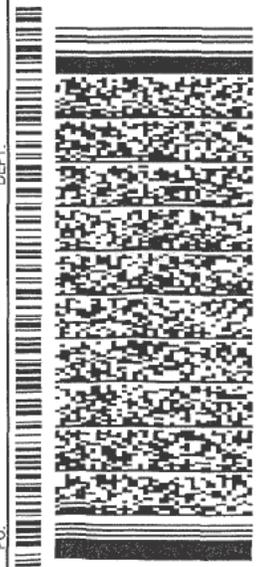
SHIP DATE: 28JAN26
ACTWGT 58.00 LB
CAD: 258050552JINET4535
BILL RECIPIENT

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

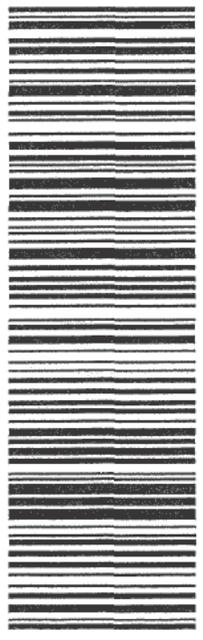
58KJ4/747B/484B

POMONA CA 91768 REF:
(626) 386-1100

DEPT.



MPS# 8882 8512 6784
0263
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2 of 2
THU - 29 JAN 10:30A
PRIORITY OVERNIGHT
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CA-US ONT



*751x 30/30 gel frozen
/bank. E FAP 1/20/26 952*

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Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-195000-1
SDG Number: Weekly: Halawa Shaft Viewing Pool

Login Number: 195000

List Number: 1

Creator: Edrosa, Rey

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").	True	
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: 380-195000-1
SDG Number: Weekly: Halawa Shaft Viewing Pool

Login Number: 195000

List Number: 2

Creator: Khana, Piyush

List Source: Eurofins Calscience

List Creation: 01/29/26 07:43 PM

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.7
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	