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ANALYTICAL REPORT

PREPARED FOR

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City & County of Honolulu
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Honolulu, Hawaii 96843

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JOB DESCRIPTION

RED-HILL
Weekly: Halawa Shaft Viewing Pool

JOB NUMBER

380-192688-1

Eurofins Pomona

Job Notes

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The test results in this report relate only to the samples as received by the laboratory and meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Drinking Water and Wastewater West, LLC Project Manager.

Compliance Statement

1. Laboratory is accredited in accordance with TNI 2016 Standards and ISO/IEC 17025:2017.
2. Laboratory certifies that the test results meet all TNI 2016 and ISO/IEC 17025:2017 requirements unless noted under the individual analysis
3. Test results relate only to the sample(s) tested.
4. This report shall not be reproduced except in full, without the written approval of the laboratory.
5. Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below. (DW, Water matrices)

Authorization



Authorized for release by
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Definitions/Glossary

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

Job ID: 380-192688-1
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 VOA

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

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control 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: 380-192688-1

Job ID: 380-192688-1

Eurofins Pomona

Job Narrative 380-192688-1

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 1/15/2026 9:38 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 4.0°C.

GC/MS Semi VOA

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

Gasoline Range Organics

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

Diesel Range Organics

Method 8015B: Surrogate recovery was outside acceptance limits for the following matrix spike/matrix spike duplicate (MS/MSD) sample: (380-192922-A-1-B MSD). The parent sample's surrogate recovery was within limits. The MS/MSD sample has been qualified and reported.

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

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Detection Summary

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

Job ID: 380-192688-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: Halawa Shaft Viewing Pool

Lab Sample ID: 380-192688-1

No Detections.

Client Sample ID: TB:Halawa Shaft Viewing Pool

Lab Sample ID: 380-192688-2

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: 380-192688-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: Halawa Shaft Viewing Pool

Lab Sample ID: 380-192688-1

Date Collected: 01/13/26 09:30

Matrix: Water

Date Received: 01/15/26 09:38

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.097		0.097	ug/L		01/18/26 13:23	01/19/26 15:46	1
2,4'-DDD	<0.097		0.097	ug/L		01/18/26 13:23	01/19/26 15:46	1
2,4'-DDE	<0.097		0.097	ug/L		01/18/26 13:23	01/19/26 15:46	1
2,4'-DDT	<0.097		0.097	ug/L		01/18/26 13:23	01/19/26 15:46	1
2,4-Dinitrotoluene	<0.097		0.097	ug/L		01/18/26 13:23	01/19/26 15:46	1
2,6-Dinitrotoluene	<0.097		0.097	ug/L		01/18/26 13:23	01/19/26 15:46	1
2-Methylnaphthalene	<0.097		0.097	ug/L		01/18/26 13:23	01/19/26 15:46	1
4,4'-DDD	<0.097		0.097	ug/L		01/18/26 13:23	01/19/26 15:46	1
4,4'-DDE	<0.097		0.097	ug/L		01/18/26 13:23	01/19/26 15:46	1
4,4'-DDT	<0.097		0.097	ug/L		01/18/26 13:23	01/19/26 15:46	1
Acenaphthene	<0.097		0.097	ug/L		01/18/26 13:23	01/19/26 15:46	1
Acenaphthylene	<0.097		0.097	ug/L		01/18/26 13:23	01/19/26 15:46	1
Acetochlor	<0.097		0.097	ug/L		01/18/26 13:23	01/19/26 15:46	1
Alachlor	<0.049		0.049	ug/L		01/18/26 13:23	01/19/26 15:46	1
alpha-BHC	<0.097		0.097	ug/L		01/18/26 13:23	01/19/26 15:46	1
alpha-Chlordane	<0.049		0.049	ug/L		01/18/26 13:23	01/19/26 15:46	1
Anthracene	<0.019		0.019	ug/L		01/18/26 13:23	01/19/26 15:46	1
Atrazine	<0.049		0.049	ug/L		01/18/26 13:23	01/19/26 15:46	1
Benz(a)anthracene	<0.049		0.049	ug/L		01/18/26 13:23	01/19/26 15:46	1
Benzo[a]pyrene	<0.019		0.019	ug/L		01/18/26 13:23	01/19/26 15:46	1
Benzo[b]fluoranthene	<0.019		0.019	ug/L		01/18/26 13:23	01/19/26 15:46	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		01/18/26 13:23	01/19/26 15:46	1
Benzo[k]fluoranthene	<0.019		0.019	ug/L		01/18/26 13:23	01/19/26 15:46	1
beta-BHC	<0.097		0.097	ug/L		01/18/26 13:23	01/19/26 15:46	1
Bis(2-ethylhexyl) phthalate	<0.58		0.58	ug/L		01/18/26 13:23	01/19/26 15:46	1
Bromacil	<0.097		0.097	ug/L		01/18/26 13:23	01/19/26 15:46	1
Butachlor	<0.049		0.049	ug/L		01/18/26 13:23	01/19/26 15:46	1
Butylbenzylphthalate	<0.49		0.49	ug/L		01/18/26 13:23	01/19/26 15:46	1
Chlorobenzilate	<0.097		0.097	ug/L		01/18/26 13:23	01/19/26 15:46	1
Chloroneb	<0.097		0.097	ug/L		01/18/26 13:23	01/19/26 15:46	1
Chlorothalonil (Draconil, Bravo)	<0.097		0.097	ug/L		01/18/26 13:23	01/19/26 15:46	1
Chlorpyrifos	<0.049		0.049	ug/L		01/18/26 13:23	01/19/26 15:46	1
Chrysene	<0.019		0.019	ug/L		01/18/26 13:23	01/19/26 15:46	1
delta-BHC	<0.097		0.097	ug/L		01/18/26 13:23	01/19/26 15:46	1
Di(2-ethylhexyl)adipate	<0.58		0.58	ug/L		01/18/26 13:23	01/19/26 15:46	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		01/18/26 13:23	01/19/26 15:46	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		01/18/26 13:23	01/19/26 15:46	1
Dieldrin	<0.0097		0.0097	ug/L		01/18/26 13:23	01/19/26 15:46	1
Diethylphthalate	<0.49		0.49	ug/L		01/18/26 13:23	01/19/26 15:46	1
Dimethylphthalate	<0.49		0.49	ug/L		01/18/26 13:23	01/19/26 15:46	1
Di-n-butyl phthalate	<0.97		0.97	ug/L		01/18/26 13:23	01/19/26 15:46	1
Di-n-octyl phthalate	<0.097		0.097	ug/L		01/18/26 13:23	01/19/26 15:46	1
Endosulfan I (Alpha)	<0.097		0.097	ug/L		01/18/26 13:23	01/19/26 15:46	1
Endosulfan II (Beta)	<0.097		0.097	ug/L		01/18/26 13:23	01/19/26 15:46	1
Endosulfan sulfate	<0.097		0.097	ug/L		01/18/26 13:23	01/19/26 15:46	1
Endrin	<0.0097		0.0097	ug/L		01/18/26 13:23	01/19/26 15:46	1
Endrin aldehyde	<0.097		0.097	ug/L		01/18/26 13:23	01/19/26 15:46	1
EPTC	<0.097		0.097	ug/L		01/18/26 13:23	01/19/26 15:46	1
Fluoranthene	<0.097		0.097	ug/L		01/18/26 13:23	01/19/26 15:46	1

Client Sample Results

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

Job ID: 380-192688-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: Halawa Shaft Viewing Pool

Lab Sample ID: 380-192688-1

Date Collected: 01/13/26 09:30

Matrix: Water

Date Received: 01/15/26 09:38

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		01/18/26 13:23	01/19/26 15:46	1
gamma-Chlordane	<0.049		0.049	ug/L		01/18/26 13:23	01/19/26 15:46	1
Heptachlor	<0.0097		0.0097	ug/L		01/18/26 13:23	01/19/26 15:46	1
Heptachlor epoxide (isomer B)	<0.0097		0.0097	ug/L		01/18/26 13:23	01/19/26 15:46	1
Hexachlorobenzene	<0.049		0.049	ug/L		01/18/26 13:23	01/19/26 15:46	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		01/18/26 13:23	01/19/26 15:46	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		01/18/26 13:23	01/19/26 15:46	1
Isophorone	<0.097		0.097	ug/L		01/18/26 13:23	01/19/26 15:46	1
Lindane	<0.0097		0.0097	ug/L		01/18/26 13:23	01/19/26 15:46	1
Malathion	<0.097		0.097	ug/L		01/18/26 13:23	01/19/26 15:46	1
Methoxychlor	<0.049		0.049	ug/L		01/18/26 13:23	01/19/26 15:46	1
Metolachlor	<0.049		0.049	ug/L		01/18/26 13:23	01/19/26 15:46	1
Molinate	<0.097		0.097	ug/L		01/18/26 13:23	01/19/26 15:46	1
Naphthalene	<0.097		0.097	ug/L		01/18/26 13:23	01/19/26 15:46	1
Parathion	<0.097		0.097	ug/L		01/18/26 13:23	01/19/26 15:46	1
Pendimethalin (Penoxaline)	<0.097		0.097	ug/L		01/18/26 13:23	01/19/26 15:46	1
Phenanthrene	<0.039		0.039	ug/L		01/18/26 13:23	01/19/26 15:46	1
Propachlor	<0.049		0.049	ug/L		01/18/26 13:23	01/19/26 15:46	1
Pyrene	<0.049		0.049	ug/L		01/18/26 13:23	01/19/26 15:46	1
Simazine	<0.049		0.049	ug/L		01/18/26 13:23	01/19/26 15:46	1
Terbacil	<0.097		0.097	ug/L		01/18/26 13:23	01/19/26 15:46	1
Terbutylazine	<0.097		0.097	ug/L		01/18/26 13:23	01/19/26 15:46	1
Thiobencarb	<0.097		0.097	ug/L		01/18/26 13:23	01/19/26 15:46	1
Total Permethrin (mixed isomers)	<0.19		0.19	ug/L		01/18/26 13:23	01/19/26 15:46	1
trans-Nonachlor	<0.049		0.049	ug/L		01/18/26 13:23	01/19/26 15:46	1
Trifluralin	<0.097		0.097	ug/L		01/18/26 13:23	01/19/26 15:46	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	01/18/26 13:23	01/19/26 15:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	103		70 - 130	01/18/26 13:23	01/19/26 15:46	1
Perylene-d12	96		70 - 130	01/18/26 13:23	01/19/26 15:46	1
Triphenylphosphate	97		70 - 130	01/18/26 13:23	01/19/26 15:46	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		01/20/26 06:00	01/28/26 15:12	1
2-Methylnaphthalene	<0.20		0.20	ug/L		01/20/26 06:00	01/28/26 15:12	1
Acenaphthene	<0.20		0.20	ug/L		01/20/26 06:00	01/28/26 15:12	1
Acenaphthylene	<0.20		0.20	ug/L		01/20/26 06:00	01/28/26 15:12	1
Anthracene	<0.20		0.20	ug/L		01/20/26 06:00	01/28/26 15:12	1
Benzo[a]anthracene	<0.20		0.20	ug/L		01/20/26 06:00	01/28/26 15:12	1
Benzo[a]pyrene	<0.20		0.20	ug/L		01/20/26 06:00	01/28/26 15:12	1
Benzo[b]fluoranthene	<0.20		0.20	ug/L		01/20/26 06:00	01/28/26 15:12	1
Benzo[g,h,i]perylene	<0.20		0.20	ug/L		01/20/26 06:00	01/28/26 15:12	1
Benzo[k]fluoranthene	<0.20		0.20	ug/L		01/20/26 06:00	01/28/26 15:12	1
Chrysene	<0.20		0.20	ug/L		01/20/26 06:00	01/28/26 15:12	1
Dibenz(a,h)anthracene	<0.20		0.20	ug/L		01/20/26 06:00	01/28/26 15:12	1
Fluoranthene	<0.20		0.20	ug/L		01/20/26 06:00	01/28/26 15:12	1

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Client Sample Results

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

Job ID: 380-192688-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: Halawa Shaft Viewing Pool

Lab Sample ID: 380-192688-1

Date Collected: 01/13/26 09:30

Matrix: Water

Date Received: 01/15/26 09:38

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		01/20/26 06:00	01/28/26 15:12	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20	ug/L		01/20/26 06:00	01/28/26 15:12	1
Naphthalene	<0.20		0.20	ug/L		01/20/26 06:00	01/28/26 15:12	1
Phenanthrene	<0.20		0.20	ug/L		01/20/26 06:00	01/28/26 15:12	1
Pyrene	<0.20		0.20	ug/L		01/20/26 06:00	01/28/26 15:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	88		28 - 127	01/20/26 06:00	01/28/26 15:12	1
2-Fluorobiphenyl (Surr)	81		31 - 120	01/20/26 06:00	01/28/26 15:12	1
2-Fluorophenol (Surr)	49		17 - 120	01/20/26 06:00	01/28/26 15:12	1
Nitrobenzene-d5 (Surr)	79		27 - 120	01/20/26 06:00	01/28/26 15:12	1
Phenol-d6 (Surr)	32		10 - 120	01/20/26 06:00	01/28/26 15:12	1
p-Terphenyl-d14 (Surr)	74		45 - 120	01/20/26 06:00	01/28/26 15:12	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	01/20/26 06:00	01/29/26 18:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	83		33 - 139	01/20/26 06:00	01/29/26 18:32	1
2-Fluorobiphenyl (Surr)	80		33 - 126	01/20/26 06:00	01/29/26 18:32	1
2-Fluorophenol (Surr)	61		12 - 120	01/20/26 06:00	01/29/26 18:32	1
Nitrobenzene-d5 (Surr)	96		36 - 120	01/20/26 06:00	01/29/26 18:32	1
Phenol-d6 (Surr)	39		10 - 120	01/20/26 06:00	01/29/26 18:32	1
p-Terphenyl-d14 (Surr)	88		47 - 131	01/20/26 06:00	01/29/26 18:32	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			01/17/26 15:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		38 - 134		01/17/26 15:36	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		01/19/26 10:30	01/25/26 00:42	1
Motor Oil Range Organics [C24-C36]	<26		26	ug/L		01/19/26 10:30	01/25/26 00:42	1
C8-C18	<26		26	ug/L		01/19/26 10:30	01/25/26 00:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	107		60 - 130	01/19/26 10:30	01/25/26 00:42	1

Client Sample ID: TB:Halawa Shaft Viewing Pool

Lab Sample ID: 380-192688-2

Date Collected: 01/13/26 09:30

Matrix: Water

Date Received: 01/15/26 09:38

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			01/17/26 18:42	1

Client Sample Results

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

Job ID: 380-192688-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: TB:Halawa Shaft Viewing Pool

Lab Sample ID: 380-192688-2

Date Collected: 01/13/26 09:30

Matrix: Water

Date Received: 01/15/26 09:38

<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)	96		38 - 134		01/17/26 18:42	1

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- 15
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Action Limit Summary

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

Job ID: 380-192688-1
 SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: Halawa Shaft Viewing Pool

Lab Sample ID: 380-192688-1

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	<0.019		ug/L	0.2	0.019	525.2	Total/NA
Bis(2-ethylhexyl) phthalate	<0.58		ug/L	6	0.58	525.2	Total/NA
Di(2-ethylhexyl)adipate	<0.58		ug/L	400	0.58	525.2	Total/NA
Endrin	<0.0097		ug/L	2	0.0097	525.2	Total/NA
Heptachlor	<0.0097		ug/L	0.4	0.0097	525.2	Total/NA
Heptachlor epoxide (isomer B)	<0.0097		ug/L	0.2	0.0097	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	<0.0097		ug/L	0.2	0.0097	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: 380-192688-1
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)
380-192326-AT-1-A MS	Matrix Spike	100	99	101
380-192688-1	Halawa Shaft Viewing Pool	103	96	97
380-192688-1 DU	Halawa Shaft Viewing Pool	102	94	106
LCS 380-198749/23-A	Lab Control Sample	100	99	99
LCS 380-198749/24-A	Lab Control Sample Dup	102	98	106
MB 380-198749/21-A	Method Blank	100	92	90
MRL 380-198749/22-A	Lab Control Sample	103	94	91

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)
380-192688-1	Halawa Shaft Viewing Pool	83	80	61	96	39	88

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)
380-192688-1	Halawa Shaft Viewing Pool	88	81	49	79	32	74
380-192972-A-1-A MS	Matrix Spike	80	75	51	74	34	76
380-192972-A-1-B MSD	Matrix Spike Duplicate	86	80	54	80	36	82
LCS 570-684318/2-A	Lab Control Sample	91	85	59	87	40	92
LCS 570-684318/3-A	Lab Control Sample Dup	93	89	63	90	43	92
MB 570-684318/1-A	Method Blank	102	87	57	89	37	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)

Surrogate Summary

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

Job ID: 380-192688-1
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)
380-192688-1	Halawa Shaft Viewing Pool	98
380-192688-2	TB:Halawa Shaft Viewing Pool	96
380-192922-C-1 MS	Matrix Spike	92
380-192922-C-1 MSD	Matrix Spike Duplicate	96
LCS 570-683659/3	Lab Control Sample	87
LCSD 570-683659/4	Lab Control Sample Dup	98
MB 570-683659/5	Method Blank	93
MRL 570-683659/6	Lab Control Sample	87

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)
380-192688-1	Halawa Shaft Viewing Pool	107
380-192922-A-1-A MS	Matrix Spike	120
380-192922-A-1-B MSD	Matrix Spike Duplicate	133 S1+
LCS 570-684016/2-A	Lab Control Sample	124
LCSD 570-684016/3-A	Lab Control Sample Dup	130
MB 570-684016/1-A	Method Blank	123
MRL 570-684016/4-A	Lab Control Sample	122

Surrogate Legend

OTCSN = n-Octacosane (Surr)

QC Sample Results

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

Job ID: 380-192688-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MB 380-198749/21-A
Matrix: Water
Analysis Batch: 199024

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 198749

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1-Methylnaphthalene	<0.097		0.097	ug/L		01/18/26 13:23	01/19/26 13:44	1
2,4'-DDD	<0.097		0.097	ug/L		01/18/26 13:23	01/19/26 13:44	1
2,4'-DDE	<0.097		0.097	ug/L		01/18/26 13:23	01/19/26 13:44	1
2,4'-DDT	<0.097		0.097	ug/L		01/18/26 13:23	01/19/26 13:44	1
2,4-Dinitrotoluene	<0.097		0.097	ug/L		01/18/26 13:23	01/19/26 13:44	1
2,6-Dinitrotoluene	<0.097		0.097	ug/L		01/18/26 13:23	01/19/26 13:44	1
2-Methylnaphthalene	<0.097		0.097	ug/L		01/18/26 13:23	01/19/26 13:44	1
4,4'-DDD	<0.097		0.097	ug/L		01/18/26 13:23	01/19/26 13:44	1
4,4'-DDE	<0.097		0.097	ug/L		01/18/26 13:23	01/19/26 13:44	1
4,4'-DDT	<0.097		0.097	ug/L		01/18/26 13:23	01/19/26 13:44	1
Acenaphthene	<0.097		0.097	ug/L		01/18/26 13:23	01/19/26 13:44	1
Acenaphthylene	<0.097		0.097	ug/L		01/18/26 13:23	01/19/26 13:44	1
Acetochlor	<0.097		0.097	ug/L		01/18/26 13:23	01/19/26 13:44	1
Alachlor	<0.049		0.049	ug/L		01/18/26 13:23	01/19/26 13:44	1
alpha-BHC	<0.097		0.097	ug/L		01/18/26 13:23	01/19/26 13:44	1
alpha-Chlordane	<0.049		0.049	ug/L		01/18/26 13:23	01/19/26 13:44	1
Anthracene	<0.019		0.019	ug/L		01/18/26 13:23	01/19/26 13:44	1
Atrazine	<0.049		0.049	ug/L		01/18/26 13:23	01/19/26 13:44	1
Benz(a)anthracene	<0.049		0.049	ug/L		01/18/26 13:23	01/19/26 13:44	1
Benzo[a]pyrene	<0.019		0.019	ug/L		01/18/26 13:23	01/19/26 13:44	1
Benzo[b]fluoranthene	<0.019		0.019	ug/L		01/18/26 13:23	01/19/26 13:44	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		01/18/26 13:23	01/19/26 13:44	1
Benzo[k]fluoranthene	<0.019		0.019	ug/L		01/18/26 13:23	01/19/26 13:44	1
beta-BHC	<0.097		0.097	ug/L		01/18/26 13:23	01/19/26 13:44	1
Bis(2-ethylhexyl) phthalate	<0.58		0.58	ug/L		01/18/26 13:23	01/19/26 13:44	1
Bromacil	<0.097		0.097	ug/L		01/18/26 13:23	01/19/26 13:44	1
Butachlor	<0.049		0.049	ug/L		01/18/26 13:23	01/19/26 13:44	1
Butylbenzylphthalate	<0.49		0.49	ug/L		01/18/26 13:23	01/19/26 13:44	1
Chlorobenzilate	<0.097		0.097	ug/L		01/18/26 13:23	01/19/26 13:44	1
Chloroneb	<0.097		0.097	ug/L		01/18/26 13:23	01/19/26 13:44	1
Chlorothalonil (Draconil, Bravo)	<0.097		0.097	ug/L		01/18/26 13:23	01/19/26 13:44	1
Chlorpyrifos	<0.049		0.049	ug/L		01/18/26 13:23	01/19/26 13:44	1
Chrysene	<0.019		0.019	ug/L		01/18/26 13:23	01/19/26 13:44	1
delta-BHC	<0.097		0.097	ug/L		01/18/26 13:23	01/19/26 13:44	1
Di(2-ethylhexyl)adipate	<0.58		0.58	ug/L		01/18/26 13:23	01/19/26 13:44	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		01/18/26 13:23	01/19/26 13:44	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		01/18/26 13:23	01/19/26 13:44	1
Dieldrin	<0.0097		0.0097	ug/L		01/18/26 13:23	01/19/26 13:44	1
Diethylphthalate	<0.49		0.49	ug/L		01/18/26 13:23	01/19/26 13:44	1
Dimethylphthalate	<0.49		0.49	ug/L		01/18/26 13:23	01/19/26 13:44	1
Di-n-butyl phthalate	<0.97		0.97	ug/L		01/18/26 13:23	01/19/26 13:44	1
Di-n-octyl phthalate	<0.097		0.097	ug/L		01/18/26 13:23	01/19/26 13:44	1
Endosulfan I (Alpha)	<0.097		0.097	ug/L		01/18/26 13:23	01/19/26 13:44	1
Endosulfan II (Beta)	<0.097		0.097	ug/L		01/18/26 13:23	01/19/26 13:44	1
Endosulfan sulfate	<0.097		0.097	ug/L		01/18/26 13:23	01/19/26 13:44	1
Endrin	<0.0097		0.0097	ug/L		01/18/26 13:23	01/19/26 13:44	1
Endrin aldehyde	<0.097		0.097	ug/L		01/18/26 13:23	01/19/26 13:44	1
EPTC	<0.097		0.097	ug/L		01/18/26 13:23	01/19/26 13:44	1

Eurofins Pomona

QC Sample Results

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

Job ID: 380-192688-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MB 380-198749/21-A

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 199024

Prep Batch: 198749

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Fluoranthene	<0.097		0.097	ug/L		01/18/26 13:23	01/19/26 13:44	1
Fluorene	<0.049		0.049	ug/L		01/18/26 13:23	01/19/26 13:44	1
gamma-Chlordane	<0.049		0.049	ug/L		01/18/26 13:23	01/19/26 13:44	1
Heptachlor	<0.0097		0.0097	ug/L		01/18/26 13:23	01/19/26 13:44	1
Heptachlor epoxide (isomer B)	<0.0097		0.0097	ug/L		01/18/26 13:23	01/19/26 13:44	1
Hexachlorobenzene	<0.049		0.049	ug/L		01/18/26 13:23	01/19/26 13:44	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		01/18/26 13:23	01/19/26 13:44	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		01/18/26 13:23	01/19/26 13:44	1
Isophorone	<0.097		0.097	ug/L		01/18/26 13:23	01/19/26 13:44	1
Lindane	<0.0097		0.0097	ug/L		01/18/26 13:23	01/19/26 13:44	1
Malathion	<0.097		0.097	ug/L		01/18/26 13:23	01/19/26 13:44	1
Methoxychlor	<0.049		0.049	ug/L		01/18/26 13:23	01/19/26 13:44	1
Metolachlor	<0.049		0.049	ug/L		01/18/26 13:23	01/19/26 13:44	1
Molinate	<0.097		0.097	ug/L		01/18/26 13:23	01/19/26 13:44	1
Naphthalene	<0.097		0.097	ug/L		01/18/26 13:23	01/19/26 13:44	1
Parathion	<0.097		0.097	ug/L		01/18/26 13:23	01/19/26 13:44	1
Pendimethalin (Penoxaline)	<0.097		0.097	ug/L		01/18/26 13:23	01/19/26 13:44	1
Phenanthrene	<0.039		0.039	ug/L		01/18/26 13:23	01/19/26 13:44	1
Propachlor	<0.049		0.049	ug/L		01/18/26 13:23	01/19/26 13:44	1
Pyrene	<0.049		0.049	ug/L		01/18/26 13:23	01/19/26 13:44	1
Simazine	<0.049		0.049	ug/L		01/18/26 13:23	01/19/26 13:44	1
Terbacil	<0.097		0.097	ug/L		01/18/26 13:23	01/19/26 13:44	1
Terbutylazine	<0.097		0.097	ug/L		01/18/26 13:23	01/19/26 13:44	1
Thiobencarb	<0.097		0.097	ug/L		01/18/26 13:23	01/19/26 13:44	1
Total Permethrin (mixed isomers)	<0.19		0.19	ug/L		01/18/26 13:23	01/19/26 13:44	1
trans-Nonachlor	<0.049		0.049	ug/L		01/18/26 13:23	01/19/26 13:44	1
Trifluralin	<0.097		0.097	ug/L		01/18/26 13:23	01/19/26 13:44	1

Tentatively Identified Compound	MB	MB	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
	Est. Result	Qualifier							
Cyclopentene, 1,2,3,4,5-pentamethyl-	1.03	T J N	ug/L		2.56	1000154-28-6	01/18/26 13:23	01/19/26 13:44	1
Cyclopentene, 1,2,3,4,5-pentamethyl-	2.64	T J N	ug/L		2.64	1000154-28-6	01/18/26 13:23	01/19/26 13:44	1
Cyclotetrasiloxane, octamethyl-	0.580	T J N	ug/L		2.83	556-67-2	01/18/26 13:23	01/19/26 13:44	1
Disulfide, di-tert-dodecyl	1.65	T J N	ug/L		3.09	27458-90-8	01/18/26 13:23	01/19/26 13:44	1
Undecane	2.96	T J N	ug/L		3.23	1120-21-4	01/18/26 13:23	01/19/26 13:44	1
Cyclopentasiloxane, decamethyl-	0.488	T J N	ug/L		3.36	541-02-6	01/18/26 13:23	01/19/26 13:44	1
Tridecane, 1-iodo-	0.719	T J N	ug/L		3.88	35599-77-0	01/18/26 13:23	01/19/26 13:44	1
Unknown	0.648	T J	ug/L		4.63	N/A	01/18/26 13:23	01/19/26 13:44	1
Unknown	0.641	T J	ug/L		15.30	N/A	01/18/26 13:23	01/19/26 13:44	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Nitro-m-xylene	100		70 - 130	01/18/26 13:23	01/19/26 13:44	1
Perylene-d12	92		70 - 130	01/18/26 13:23	01/19/26 13:44	1
Triphenylphosphate	90		70 - 130	01/18/26 13:23	01/19/26 13:44	1

QC Sample Results

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

Job ID: 380-192688-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCS 380-198749/23-A
Matrix: Water
Analysis Batch: 199024

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 198749

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	1.95	1.97		ug/L		101	70 - 130
2,4'-DDD	1.95	1.96		ug/L		100	70 - 130
2,4'-DDE	1.95	1.92		ug/L		99	70 - 130
2,4'-DDT	1.95	1.99		ug/L		102	70 - 130
2,4-Dinitrotoluene	1.95	1.86		ug/L		95	70 - 130
2,6-Dinitrotoluene	1.95	1.80		ug/L		92	70 - 130
2-Methylnaphthalene	1.95	1.99		ug/L		102	70 - 130
4,4'-DDD	1.95	2.04		ug/L		105	70 - 130
4,4'-DDE	1.95	1.76		ug/L		90	70 - 130
4,4'-DDT	1.95	1.94		ug/L		100	70 - 130
Acenaphthene	1.95	1.94		ug/L		99	70 - 130
Acenaphthylene	1.95	1.77		ug/L		91	70 - 130
Acetochlor	1.95	1.94		ug/L		99	70 - 130
Alachlor	1.95	1.92		ug/L		98	70 - 130
alpha-BHC	1.95	1.91		ug/L		98	70 - 130
alpha-Chlordane	1.95	1.88		ug/L		97	70 - 130
Anthracene	1.95	2.14		ug/L		110	70 - 130
Atrazine	1.95	2.05		ug/L		105	70 - 130
Benz(a)anthracene	1.95	1.91		ug/L		98	70 - 130
Benzo[a]pyrene	1.95	2.18		ug/L		112	70 - 130
Benzo[b]fluoranthene	1.95	2.01		ug/L		103	70 - 130
Benzo[g,h,i]perylene	1.95	2.09		ug/L		107	70 - 130
Benzo[k]fluoranthene	1.95	2.04		ug/L		105	70 - 130
beta-BHC	1.95	1.97		ug/L		101	70 - 130
Bis(2-ethylhexyl) phthalate	1.95	2.00		ug/L		102	70 - 130
Bromacil	1.95	1.80		ug/L		92	70 - 130
Butachlor	1.95	2.07		ug/L		106	70 - 130
Butylbenzylphthalate	1.95	2.04		ug/L		104	70 - 130
Chlorobenzilate	1.95	2.14		ug/L		110	70 - 130
Chloroneb	1.95	1.90		ug/L		98	70 - 130
Chlorothalonil (Draconil, Bravo)	1.95	2.01		ug/L		103	70 - 130
Chlorpyrifos	1.95	1.97		ug/L		101	70 - 130
Chrysene	1.95	1.85		ug/L		95	70 - 130
delta-BHC	1.95	1.90		ug/L		97	70 - 130
Di(2-ethylhexyl)adipate	1.95	2.28		ug/L		117	70 - 130
Dibenz(a,h)anthracene	1.95	2.21		ug/L		113	70 - 130
Diclorvos (DDVP)	1.95	2.09		ug/L		107	70 - 130
Dieldrin	1.95	1.97		ug/L		101	70 - 130
Diethylphthalate	1.95	1.95		ug/L		100	70 - 130
Dimethylphthalate	1.95	1.86		ug/L		95	70 - 130
Di-n-butyl phthalate	3.90	3.95		ug/L		101	70 - 130
Di-n-octyl phthalate	1.95	2.03		ug/L		104	70 - 130
Endosulfan I (Alpha)	1.95	1.98		ug/L		101	70 - 130
Endosulfan II (Beta)	1.95	2.00		ug/L		102	70 - 130
Endosulfan sulfate	1.95	2.05		ug/L		105	70 - 130
Endrin	1.95	2.09		ug/L		107	70 - 130
Endrin aldehyde	1.95	1.70		ug/L		87	60 - 130
EPTC	1.95	1.95		ug/L		100	70 - 130

QC Sample Results

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

Job ID: 380-192688-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCS 380-198749/23-A

Matrix: Water

Analysis Batch: 199024

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 198749

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
Fluoranthene	1.95	2.15		ug/L		110	70 - 130	
Fluorene	1.95	1.85		ug/L		95	70 - 130	
gamma-Chlordane	1.95	1.83		ug/L		94	70 - 130	
Heptachlor	1.95	1.79		ug/L		92	70 - 130	
Heptachlor epoxide (isomer B)	1.95	1.63		ug/L		84	70 - 130	
Hexachlorobenzene	1.95	1.74		ug/L		89	70 - 130	
Hexachlorocyclopentadiene	1.95	1.80		ug/L		92	70 - 130	
Indeno[1,2,3-cd]pyrene	1.95	2.26		ug/L		116	70 - 130	
Isophorone	1.95	1.97		ug/L		101	70 - 130	
Lindane	1.95	2.01		ug/L		103	70 - 130	
Malathion	1.95	2.08		ug/L		106	70 - 130	
Methoxychlor	1.95	2.00		ug/L		103	70 - 130	
Metolachlor	1.95	1.93		ug/L		99	70 - 130	
Molinate	1.95	2.04		ug/L		105	70 - 130	
Naphthalene	1.95	1.78		ug/L		91	70 - 130	
Parathion	1.95	2.22		ug/L		114	70 - 130	
Pendimethalin (Penoxaline)	1.95	1.94		ug/L		99	70 - 130	
Phenanthrene	1.95	1.89		ug/L		97	70 - 130	
Propachlor	1.95	2.15		ug/L		110	70 - 130	
Pyrene	1.95	2.23		ug/L		114	70 - 130	
Simazine	1.95	2.15		ug/L		110	70 - 130	
Terbacil	1.95	1.81		ug/L		93	70 - 130	
Terbutylazine	1.95	2.10		ug/L		108	70 - 130	
Thiobencarb	1.95	2.13		ug/L		109	70 - 130	
trans-Nonachlor	1.95	1.91		ug/L		98	70 - 130	
Trifluralin	1.95	1.85		ug/L		95	70 - 130	

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

Lab Sample ID: LCSD 380-198749/24-A

Matrix: Water

Analysis Batch: 199024

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 198749

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	
							Limits		RPD	Limit
1-Methylnaphthalene	1.95	1.97		ug/L		101	70 - 130	0	20	
2,4'-DDD	1.95	2.04		ug/L		105	70 - 130	4	20	
2,4'-DDE	1.95	1.96		ug/L		101	70 - 130	2	20	
2,4'-DDT	1.95	2.10		ug/L		108	70 - 130	6	20	
2,4-Dinitrotoluene	1.95	1.92		ug/L		99	70 - 130	3	20	
2,6-Dinitrotoluene	1.95	1.83		ug/L		94	70 - 130	2	20	
2-Methylnaphthalene	1.95	1.99		ug/L		102	70 - 130	0	20	
4,4'-DDD	1.95	2.14		ug/L		110	70 - 130	4	20	
4,4'-DDE	1.95	1.81		ug/L		93	70 - 130	3	20	
4,4'-DDT	1.95	2.04		ug/L		105	70 - 130	5	20	
Acenaphthene	1.95	1.96		ug/L		101	70 - 130	1	20	

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QC Sample Results

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

Job ID: 380-192688-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCSD 380-198749/24-A

Matrix: Water

Analysis Batch: 199024

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 198749

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	RPD
	Added	Result	Qualifier				Limits		Limit
Acenaphthylene	1.95	1.80		ug/L		93	70 - 130	2	20
Acetochlor	1.95	2.01		ug/L		103	70 - 130	4	20
Alachlor	1.95	1.99		ug/L		102	70 - 130	4	20
alpha-BHC	1.95	1.93		ug/L		99	70 - 130	1	20
alpha-Chlordane	1.95	2.00		ug/L		102	70 - 130	6	20
Anthracene	1.95	2.14		ug/L		110	70 - 130	0	20
Atrazine	1.95	2.14		ug/L		110	70 - 130	4	20
Benz(a)anthracene	1.95	2.01		ug/L		103	70 - 130	5	20
Benzo[a]pyrene	1.95	2.24		ug/L		115	70 - 130	3	20
Benzo[b]fluoranthene	1.95	2.04		ug/L		105	70 - 130	1	20
Benzo[g,h,i]perylene	1.95	2.15		ug/L		111	70 - 130	3	20
Benzo[k]fluoranthene	1.95	2.05		ug/L		105	70 - 130	0	20
beta-BHC	1.95	2.00		ug/L		102	70 - 130	1	20
Bis(2-ethylhexyl) phthalate	1.95	1.97		ug/L		101	70 - 130	1	20
Bromacil	1.95	1.85		ug/L		95	70 - 130	3	20
Butachlor	1.95	2.16		ug/L		111	70 - 130	5	20
Butylbenzylphthalate	1.95	2.16		ug/L		111	70 - 130	6	20
Chlorobenzilate	1.95	2.22		ug/L		114	70 - 130	4	20
Chloroneb	1.95	1.95		ug/L		100	70 - 130	3	20
Chlorothalonil (Draconil, Bravo)	1.95	2.09		ug/L		107	70 - 130	4	20
Chlorpyrifos	1.95	2.11		ug/L		108	70 - 130	7	20
Chrysene	1.95	1.88		ug/L		97	70 - 130	2	20
delta-BHC	1.95	1.98		ug/L		102	70 - 130	4	20
Di(2-ethylhexyl)adipate	1.95	2.35		ug/L		121	70 - 130	3	20
Dibenz(a,h)anthracene	1.95	2.25		ug/L		116	70 - 130	2	20
Diclorvos (DDVP)	1.95	2.10		ug/L		108	70 - 130	0	20
Dieldrin	1.95	2.07		ug/L		106	70 - 130	5	20
Diethylphthalate	1.95	1.98		ug/L		102	70 - 130	1	20
Dimethylphthalate	1.95	1.88		ug/L		97	70 - 130	1	20
Di-n-butyl phthalate	3.89	3.96		ug/L		102	70 - 130	0	20
Di-n-octyl phthalate	1.95	1.98		ug/L		102	70 - 130	2	20
Endosulfan I (Alpha)	1.95	2.07		ug/L		106	70 - 130	5	20
Endosulfan II (Beta)	1.95	2.08		ug/L		107	70 - 130	4	20
Endosulfan sulfate	1.95	2.14		ug/L		110	70 - 130	4	20
Endrin	1.95	2.21		ug/L		114	70 - 130	6	20
Endrin aldehyde	1.95	1.77		ug/L		91	60 - 130	4	20
EPTC	1.95	1.96		ug/L		101	70 - 130	1	20
Fluoranthene	1.95	2.21		ug/L		113	70 - 130	3	20
Fluorene	1.95	1.85		ug/L		95	70 - 130	0	20
gamma-Chlordane	1.95	1.93		ug/L		99	70 - 130	5	20
Heptachlor	1.95	1.87		ug/L		96	70 - 130	4	20
Heptachlor epoxide (isomer B)	1.95	1.67		ug/L		86	70 - 130	2	20
Hexachlorobenzene	1.95	1.75		ug/L		90	70 - 130	1	20
Hexachlorocyclopentadiene	1.95	1.82		ug/L		94	70 - 130	1	20
Indeno[1,2,3-cd]pyrene	1.95	2.29		ug/L		118	70 - 130	1	20
Isophorone	1.95	2.00		ug/L		103	70 - 130	1	20
Lindane	1.95	2.03		ug/L		104	70 - 130	1	20
Malathion	1.95	2.23		ug/L		114	70 - 130	7	20
Methoxychlor	1.95	2.05		ug/L		105	70 - 130	2	20

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QC Sample Results

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

Job ID: 380-192688-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCSD 380-198749/24-A

Matrix: Water

Analysis Batch: 199024

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 198749

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Metolachlor	1.95	2.04		ug/L		105	70 - 130	6	20	
Molinate	1.95	2.07		ug/L		107	70 - 130	2	20	
Naphthalene	1.95	1.80		ug/L		92	70 - 130	1	20	
Parathion	1.95	2.32		ug/L		119	70 - 130	5	20	
Pendimethalin (Penoxaline)	1.95	2.05		ug/L		105	70 - 130	6	20	
Phenanthrene	1.95	1.89		ug/L		97	70 - 130	0	20	
Propachlor	1.95	2.16		ug/L		111	70 - 130	1	20	
Pyrene	1.95	2.32		ug/L		119	70 - 130	4	20	
Simazine	1.95	2.17		ug/L		112	70 - 130	1	20	
Terbacil	1.95	1.83		ug/L		94	70 - 130	1	20	
Terbutylazine	1.95	2.18		ug/L		112	70 - 130	4	20	
Thiobencarb	1.95	2.23		ug/L		115	70 - 130	5	20	
trans-Nonachlor	1.95	2.00		ug/L		103	70 - 130	5	20	
Trifluralin	1.95	1.91		ug/L		98	70 - 130	3	20	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	102		70 - 130
Perylene-d 12	98		70 - 130
Triphenylphosphate	106		70 - 130

Lab Sample ID: MRL 380-198749/22-A

Matrix: Water

Analysis Batch: 199024

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 198749

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec	
							Limits	RPD
1-Methylnaphthalene	0.0976	0.112		ug/L		115	50 - 150	
2,4'-DDD	0.0976	0.0847	J	ug/L		87	50 - 150	
2,4'-DDE	0.0976	0.0989		ug/L		101	50 - 150	
2,4'-DDT	0.0976	0.0915	J	ug/L		94	50 - 150	
2,4-Dinitrotoluene	0.0976	0.106		ug/L		108	50 - 150	
2,6-Dinitrotoluene	0.0976	0.128		ug/L		131	50 - 150	
2-Methylnaphthalene	0.0976	0.108		ug/L		111	50 - 150	
4,4'-DDD	0.0976	0.0960	J	ug/L		98	50 - 150	
4,4'-DDE	0.0976	0.0905	J	ug/L		93	50 - 150	
4,4'-DDT	0.0976	0.111		ug/L		114	50 - 150	
Acenaphthene	0.0976	0.0918	J	ug/L		94	50 - 150	
Acenaphthylene	0.0976	0.0944	J	ug/L		97	50 - 150	
Acetochlor	0.0976	0.130		ug/L		133	50 - 150	
Alachlor	0.0488	0.0585		ug/L		120	50 - 150	
alpha-BHC	0.0976	0.0997		ug/L		102	50 - 150	
alpha-Chlordane	0.0244	<0.028		ug/L		92	50 - 150	
Anthracene	0.0195	0.0237		ug/L		122	50 - 150	
Atrazine	0.0488	0.0519		ug/L		106	50 - 150	
Benz(a)anthracene	0.0488	0.0612		ug/L		125	50 - 150	
Benzo[a]pyrene	0.0195	0.0234		ug/L		120	50 - 150	
Benzo[b]fluoranthene	0.0195	0.0224		ug/L		115	50 - 150	
Benzo[g,h,i]perylene	0.0488	0.0516		ug/L		106	50 - 150	
Benzo[k]fluoranthene	0.0195	0.0236		ug/L		121	50 - 150	

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QC Sample Results

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

Job ID: 380-192688-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MRL 380-198749/22-A
Matrix: Water
Analysis Batch: 199024

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 198749

Analyte	Spike	MRL	MRL	Unit	D	%Rec	%Rec Limits
	Added	Result	Qualifier				
beta-BHC	0.0976	0.108		ug/L		111	50 - 150
Bis(2-ethylhexyl) phthalate	0.585	0.704		ug/L		120	50 - 150
Bromacil	0.0976	0.102		ug/L		105	50 - 150
Butachlor	0.0488	0.0596		ug/L		122	50 - 150
Butylbenzylphthalate	0.488	0.595		ug/L		122	50 - 150
Chlorobenzilate	0.0976	0.101		ug/L		104	50 - 150
Chloroneb	0.0976	0.102		ug/L		104	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0976	0.0876	J	ug/L		90	50 - 150
Chlorpyrifos	0.0488	0.0521		ug/L		107	50 - 150
Chrysene	0.0195	0.0232		ug/L		119	50 - 150
delta-BHC	0.0976	0.108		ug/L		110	50 - 150
Di(2-ethylhexyl)adipate	0.585	0.720		ug/L		123	50 - 150
Dibenz(a,h)anthracene	0.0488	0.0463	J	ug/L		95	50 - 150
Diclorvos (DDVP)	0.0488	0.0664		ug/L		136	50 - 150
Dieldrin	0.00976	0.0112		ug/L		115	50 - 150
Diethylphthalate	0.488	0.568		ug/L		116	50 - 150
Dimethylphthalate	0.488	0.514		ug/L		105	50 - 150
Di-n-butyl phthalate	0.488	0.549	J	ug/L		113	49 - 243
Di-n-octyl phthalate	0.0976	0.0998		ug/L		102	50 - 150
Endosulfan I (Alpha)	0.0976	0.0808	J	ug/L		83	50 - 150
Endosulfan II (Beta)	0.0976	0.0931	J	ug/L		95	50 - 150
Endosulfan sulfate	0.0976	0.0865	J	ug/L		89	50 - 150
Endrin	0.00976	0.0106		ug/L		109	50 - 150
Endrin aldehyde	0.0976	0.108		ug/L		110	50 - 150
EPTC	0.0976	0.108		ug/L		110	50 - 150
Fluoranthene	0.0976	0.0941	J	ug/L		96	50 - 150
Fluorene	0.0488	0.0560		ug/L		115	50 - 150
gamma-Chlordane	0.0244	0.0229	J	ug/L		94	50 - 150
Heptachlor	0.00976	0.0140		ug/L		143	50 - 150
Heptachlor epoxide (isomer B)	0.00976	0.0105		ug/L		108	50 - 150
Hexachlorobenzene	0.0488	0.0429	J	ug/L		88	50 - 150
Hexachlorocyclopentadiene	0.0488	0.0456	J	ug/L		93	50 - 150
Indeno[1,2,3-cd]pyrene	0.0488	0.0495		ug/L		101	50 - 150
Isophorone	0.0976	0.132		ug/L		136	50 - 150
Lindane	0.00976	0.0110		ug/L		113	50 - 150
Malathion	0.0976	0.0965	J	ug/L		99	50 - 150
Methoxychlor	0.0488	0.0562		ug/L		115	50 - 150
Metolachlor	0.0488	0.0608		ug/L		125	50 - 150
Molinate	0.0976	0.106		ug/L		109	50 - 150
Naphthalene	0.0976	0.114		ug/L		117	50 - 150
Parathion	0.0976	0.101		ug/L		103	50 - 150
Pendimethalin (Penoxaline)	0.0976	0.0924	J	ug/L		95	50 - 150
Phenanthrene	0.0390	0.0445		ug/L		114	50 - 150
Propachlor	0.0488	0.0568		ug/L		116	50 - 150
Pyrene	0.0488	0.0479	J	ug/L		98	50 - 150
Simazine	0.0488	0.0431	J	ug/L		88	50 - 150
Terbacil	0.0976	0.106		ug/L		109	50 - 150
Terbuthylazine	0.0976	0.100		ug/L		103	50 - 150
Thiobencarb	0.0976	0.114		ug/L		117	50 - 150

QC Sample Results

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

Job ID: 380-192688-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MRL 380-198749/22-A

Matrix: Water

Analysis Batch: 199024

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 198749

Analyte	Spike	MRL	MRL	Unit	D	%Rec	%Rec Limits
	Added	Result	Qualifier				
trans-Nonachlor	0.0244	<0.025		ug/L		92	50 - 150
Trifluralin	0.0976	0.0880	J	ug/L		90	50 - 150

Surrogate	MRL	MRL	Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	103		70 - 130
Perylene-d12	94		70 - 130
Triphenylphosphate	91		70 - 130

Lab Sample ID: 380-192326-AT-1-A MS

Matrix: Water

Analysis Batch: 199024

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 198749

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
1-Methylnaphthalene	<0.097		1.92	1.94		ug/L		101	70 - 130
2,4'-DDD	<0.097		1.92	2.00		ug/L		104	70 - 130
2,4'-DDE	<0.097		1.92	1.94		ug/L		101	70 - 130
2,4'-DDT	<0.097		1.92	2.06		ug/L		107	70 - 130
2,4-Dinitrotoluene	<0.097		1.92	1.99		ug/L		103	70 - 130
2,6-Dinitrotoluene	<0.097		1.92	1.90		ug/L		99	70 - 130
2-Methylnaphthalene	<0.097		1.92	1.96		ug/L		102	70 - 130
4,4'-DDD	<0.097		1.92	2.11		ug/L		110	70 - 130
4,4'-DDE	<0.097		1.92	1.72		ug/L		90	70 - 130
4,4'-DDT	<0.097		1.92	1.97		ug/L		103	70 - 130
Acenaphthene	<0.097		1.92	1.90		ug/L		99	70 - 130
Acenaphthylene	<0.097		1.92	1.84		ug/L		96	70 - 130
Acetochlor	<0.097		1.92	1.96		ug/L		102	70 - 130
Alachlor	<0.048		1.92	1.92		ug/L		100	70 - 130
alpha-BHC	<0.097		1.92	1.90		ug/L		99	70 - 130
alpha-Chlordane	<0.048		1.92	1.92		ug/L		100	70 - 130
Anthracene	<0.019		1.92	2.04		ug/L		106	70 - 130
Atrazine	<0.048		1.92	2.03		ug/L		104	70 - 130
Benz(a)anthracene	<0.048		1.92	1.99		ug/L		104	70 - 130
Benzo[a]pyrene	<0.019		1.92	2.22		ug/L		116	70 - 130
Benzo[b]fluoranthene	<0.019		1.92	1.99		ug/L		104	70 - 130
Benzo[g,h,i]perylene	<0.048		1.92	2.04		ug/L		106	70 - 130
Benzo[k]fluoranthene	<0.019		1.92	1.97		ug/L		103	70 - 130
beta-BHC	<0.097		1.92	1.96		ug/L		102	70 - 130
Bis(2-ethylhexyl) phthalate	<0.58		1.92	1.90		ug/L		99	70 - 130
Bromacil	<0.097		1.92	1.97		ug/L		102	70 - 130
Butachlor	<0.048		1.92	2.13		ug/L		111	70 - 130
Butylbenzylphthalate	<0.48		1.92	2.07		ug/L		108	70 - 130
Chlorobenzilate	<0.097		1.92	2.26		ug/L		117	70 - 130
Chloroneb	<0.097		1.92	1.89		ug/L		98	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.097		1.92	2.05		ug/L		107	70 - 130
Chlorpyrifos	<0.048		1.92	2.01		ug/L		105	70 - 130
Chrysene	<0.019		1.92	1.86		ug/L		97	70 - 130
delta-BHC	<0.097		1.92	1.90		ug/L		99	70 - 130
Di(2-ethylhexyl)adipate	<0.58		1.92	2.24		ug/L		116	70 - 130

QC Sample Results

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

Job ID: 380-192688-1
 SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: 380-192326-AT-1-A MS

Client Sample ID: Matrix Spike

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 199024

Prep Batch: 198749

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
Dibenz(a,h)anthracene	<0.048		1.92	2.19		ug/L		114	70 - 130
Diclorvos (DDVP)	<0.048		1.92	2.06		ug/L		107	70 - 130
Dieldrin	<0.0097		1.92	1.97		ug/L		103	70 - 130
Diethylphthalate	<0.48		1.92	1.96		ug/L		102	70 - 130
Dimethylphthalate	<0.48		1.92	1.85		ug/L		96	70 - 130
Di-n-butyl phthalate	<0.97		3.85	4.13		ug/L		99	70 - 130
Di-n-octyl phthalate	<0.097		1.92	1.94		ug/L		101	70 - 130
Endosulfan I (Alpha)	<0.097		1.92	2.00		ug/L		104	70 - 130
Endosulfan II (Beta)	<0.097		1.92	2.04		ug/L		106	70 - 130
Endosulfan sulfate	<0.097		1.92	2.12		ug/L		110	70 - 130
Endrin	<0.0097		1.92	2.04		ug/L		106	70 - 130
Endrin aldehyde	<0.097		1.92	1.30		ug/L		68	60 - 130
EPTC	<0.097		1.92	1.96		ug/L		102	70 - 130
Fluoranthene	<0.097		1.92	2.20		ug/L		114	70 - 130
Fluorene	<0.048		1.92	1.85		ug/L		96	70 - 130
gamma-Chlordane	<0.048		1.92	1.86		ug/L		97	70 - 130
Heptachlor	<0.0097		1.92	1.84		ug/L		96	70 - 130
Heptachlor epoxide (isomer B)	<0.0097		1.92	1.61		ug/L		84	70 - 130
Hexachlorobenzene	<0.048		1.92	1.72		ug/L		90	70 - 130
Hexachlorocyclopentadiene	<0.048		1.92	1.82		ug/L		94	70 - 130
Indeno[1,2,3-cd]pyrene	<0.048		1.92	2.33		ug/L		121	70 - 130
Isophorone	<0.097		1.92	1.97		ug/L		102	70 - 130
Lindane	<0.0097		1.92	2.00		ug/L		104	70 - 130
Malathion	<0.097		1.92	2.18		ug/L		113	70 - 130
Methoxychlor	<0.048		1.92	2.12		ug/L		110	70 - 130
Metolachlor	<0.048		1.92	2.00		ug/L		102	70 - 130
Molinate	<0.097		1.92	2.05		ug/L		107	70 - 130
Naphthalene	<0.097		1.92	1.77		ug/L		92	70 - 130
Parathion	<0.097		1.92	2.36		ug/L		123	70 - 130
Pendimethalin (Penoxaline)	<0.097		1.92	2.14		ug/L		111	70 - 130
Phenanthrene	<0.039		1.92	1.83		ug/L		95	70 - 130
Propachlor	<0.048		1.92	2.20		ug/L		115	70 - 130
Pyrene	<0.048		1.92	2.32		ug/L		121	70 - 130
Simazine	<0.048		1.92	2.00		ug/L		104	70 - 130
Terbacil	<0.097		1.92	1.78		ug/L		92	70 - 130
Terbutylazine	<0.097		1.92	2.09		ug/L		109	70 - 130
Thiobencarb	<0.097		1.92	2.16		ug/L		113	70 - 130
trans-Nonachlor	<0.048		1.92	1.94		ug/L		101	70 - 130
Trifluralin	<0.097		1.92	1.95		ug/L		101	70 - 130

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	100		70 - 130
Perylene-d12	99		70 - 130
Triphenylphosphate	101		70 - 130

QC Sample Results

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

Job ID: 380-192688-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: 380-192688-1 DU

Matrix: Water

Analysis Batch: 199024

Client Sample ID: Halawa Shaft Viewing Pool

Prep Type: Total/NA

Prep Batch: 198749

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
1-Methylnaphthalene	<0.097		<0.10		ug/L		NC	20
2,4'-DDD	<0.097		<0.10		ug/L		NC	20
2,4'-DDE	<0.097		<0.10		ug/L		NC	20
2,4'-DDT	<0.097		<0.10		ug/L		NC	20
2,4-Dinitrotoluene	<0.097		<0.10		ug/L		NC	20
2,6-Dinitrotoluene	<0.097		<0.10		ug/L		NC	20
2-Methylnaphthalene	<0.097		<0.10		ug/L		NC	20
4,4'-DDD	<0.097		<0.10		ug/L		NC	20
4,4'-DDE	<0.097		<0.10		ug/L		NC	20
4,4'-DDT	<0.097		<0.10		ug/L		NC	20
Acenaphthene	<0.097		<0.10		ug/L		NC	20
Acenaphthylene	<0.097		<0.10		ug/L		NC	20
Acetochlor	<0.097		<0.10		ug/L		NC	20
Alachlor	<0.049		<0.050		ug/L		NC	20
alpha-BHC	<0.097		<0.10		ug/L		NC	20
alpha-Chlordane	<0.049		<0.050		ug/L		NC	20
Anthracene	<0.019		<0.020		ug/L		NC	20
Atrazine	<0.049		<0.050		ug/L		NC	20
Benz(a)anthracene	<0.049		<0.050		ug/L		NC	20
Benzo[a]pyrene	<0.019		<0.020		ug/L		NC	20
Benzo[b]fluoranthene	<0.019		<0.020		ug/L		NC	20
Benzo[g,h,i]perylene	<0.049		<0.050		ug/L		NC	20
Benzo[k]fluoranthene	<0.019		<0.020		ug/L		NC	20
beta-BHC	<0.097		<0.10		ug/L		NC	20
Bis(2-ethylhexyl) phthalate	<0.58		<0.60		ug/L		NC	20
Bromacil	<0.097		<0.10		ug/L		NC	20
Butachlor	<0.049		<0.050		ug/L		NC	20
Butylbenzylphthalate	<0.49		<0.50		ug/L		NC	20
Chlorobenzilate	<0.097		<0.10		ug/L		NC	20
Chloroneb	<0.097		<0.10		ug/L		NC	20
Chlorothalonil (Draconil, Bravo)	<0.097		<0.10		ug/L		NC	20
Chlorpyrifos	<0.049		<0.050		ug/L		NC	20
Chrysene	<0.019		<0.020		ug/L		NC	20
delta-BHC	<0.097		<0.10		ug/L		NC	20
Di(2-ethylhexyl)adipate	<0.58		<0.60		ug/L		NC	20
Dibenz(a,h)anthracene	<0.049		<0.050		ug/L		NC	20
Diclorvos (DDVP)	<0.049		<0.050		ug/L		NC	20
Dieldrin	<0.0097		<0.010		ug/L		NC	20
Diethylphthalate	<0.49		<0.50		ug/L		NC	20
Dimethylphthalate	<0.49		<0.50		ug/L		NC	20
Di-n-butyl phthalate	<0.97		<1.0		ug/L		NC	20
Di-n-octyl phthalate	<0.097		<0.10		ug/L		NC	20
Endosulfan I (Alpha)	<0.097		<0.10		ug/L		NC	20
Endosulfan II (Beta)	<0.097		<0.10		ug/L		NC	20
Endosulfan sulfate	<0.097		<0.10		ug/L		NC	20
Endrin	<0.0097		<0.010		ug/L		NC	20
Endrin aldehyde	<0.097		<0.10		ug/L		NC	20
EPTC	<0.097		<0.10		ug/L		NC	20

QC Sample Results

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

Job ID: 380-192688-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: 380-192688-1 DU

Matrix: Water

Analysis Batch: 199024

Client Sample ID: Halawa Shaft Viewing Pool

Prep Type: Total/NA

Prep Batch: 198749

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Fluoranthene	<0.097		<0.10		ug/L		NC	20
Fluorene	<0.049		<0.050		ug/L		NC	20
gamma-Chlordane	<0.049		<0.050		ug/L		NC	20
Heptachlor	<0.0097		<0.010		ug/L		NC	20
Heptachlor epoxide (isomer B)	<0.0097		<0.010		ug/L		NC	20
Hexachlorobenzene	<0.049		<0.050		ug/L		NC	20
Hexachlorocyclopentadiene	<0.049		<0.050		ug/L		NC	20
Indeno[1,2,3-cd]pyrene	<0.049		<0.050		ug/L		NC	20
Isophorone	<0.097		<0.10		ug/L		NC	20
Lindane	<0.0097		<0.010		ug/L		NC	20
Malathion	<0.097		<0.10		ug/L		NC	20
Methoxychlor	<0.049		<0.050		ug/L		NC	20
Metolachlor	<0.049		<0.050		ug/L		NC	20
Molinate	<0.097		<0.10		ug/L		NC	20
Naphthalene	<0.097		<0.10		ug/L		NC	20
Parathion	<0.097		<0.10		ug/L		NC	20
Pendimethalin (Penoxaline)	<0.097		<0.10		ug/L		NC	20
Phenanthrene	<0.039		<0.040		ug/L		NC	20
Propachlor	<0.049		<0.050		ug/L		NC	20
Pyrene	<0.049		<0.050		ug/L		NC	20
Simazine	<0.049		<0.050		ug/L		NC	20
Terbacil	<0.097		<0.10		ug/L		NC	20
Terbutylazine	<0.097		<0.10		ug/L		NC	20
Thiobencarb	<0.097		<0.10		ug/L		NC	20
Total Permethrin (mixed isomers)	<0.19		<0.20		ug/L		NC	20
trans-Nonachlor	<0.049		<0.050		ug/L		NC	20
Trifluralin	<0.097		<0.10		ug/L		NC	20

Surrogate	DU	DU	Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	102		70 - 130
Perylene-d12	94		70 - 130
Triphenylphosphate	106		70 - 130

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

Lab Sample ID: MB 570-684318/1-A

Matrix: Water

Analysis Batch: 687438

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 684318

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1-Methylnaphthalene	<0.20		0.20	ug/L		01/20/26 06:00	01/27/26 07:13	1
2-Methylnaphthalene	<0.20		0.20	ug/L		01/20/26 06:00	01/27/26 07:13	1
Acenaphthene	<0.20		0.20	ug/L		01/20/26 06:00	01/27/26 07:13	1
Acenaphthylene	<0.20		0.20	ug/L		01/20/26 06:00	01/27/26 07:13	1
Anthracene	<0.20		0.20	ug/L		01/20/26 06:00	01/27/26 07:13	1
Benzo[a]anthracene	<0.20		0.20	ug/L		01/20/26 06:00	01/27/26 07:13	1
Benzo[a]pyrene	<0.20		0.20	ug/L		01/20/26 06:00	01/27/26 07:13	1
Benzo[b]fluoranthene	<0.20		0.20	ug/L		01/20/26 06:00	01/27/26 07:13	1
Benzo[g,h,i]perylene	<0.20		0.20	ug/L		01/20/26 06:00	01/27/26 07:13	1

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QC Sample Results

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

Job ID: 380-192688-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MB 570-684318/1-A

Matrix: Water

Analysis Batch: 687438

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 684318

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Benzo[k]fluoranthene	<0.20		0.20	ug/L		01/20/26 06:00	01/27/26 07:13	1
Chrysene	<0.20		0.20	ug/L		01/20/26 06:00	01/27/26 07:13	1
Dibenz(a,h)anthracene	<0.20		0.20	ug/L		01/20/26 06:00	01/27/26 07:13	1
Fluoranthene	<0.20		0.20	ug/L		01/20/26 06:00	01/27/26 07:13	1
Fluorene	<0.20		0.20	ug/L		01/20/26 06:00	01/27/26 07:13	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20	ug/L		01/20/26 06:00	01/27/26 07:13	1
Naphthalene	<0.20		0.20	ug/L		01/20/26 06:00	01/27/26 07:13	1
Phenanthrene	<0.20		0.20	ug/L		01/20/26 06:00	01/27/26 07:13	1
Pyrene	<0.20		0.20	ug/L		01/20/26 06:00	01/27/26 07:13	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4,6-Tribromophenol (Surr)	102		28 - 127	01/20/26 06:00	01/27/26 07:13	1
2-Fluorobiphenyl (Surr)	87		31 - 120	01/20/26 06:00	01/27/26 07:13	1
2-Fluorophenol (Surr)	57		17 - 120	01/20/26 06:00	01/27/26 07:13	1
Nitrobenzene-d5 (Surr)	89		27 - 120	01/20/26 06:00	01/27/26 07:13	1
Phenol-d6 (Surr)	37		10 - 120	01/20/26 06:00	01/27/26 07:13	1
p-Terphenyl-d14 (Surr)	84		45 - 120	01/20/26 06:00	01/27/26 07:13	1

Lab Sample ID: LCS 570-684318/2-A

Matrix: Water

Analysis Batch: 687438

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 684318

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
1-Methylnaphthalene	20.0	18.0		ug/L		90	47 - 120
2-Methylnaphthalene	20.0	18.0		ug/L		90	43 - 120
Acenaphthene	20.0	18.4		ug/L		92	60 - 132
Acenaphthylene	20.0	18.5		ug/L		92	54 - 126
Anthracene	20.0	18.1		ug/L		90	43 - 120
Benzo[a]anthracene	20.0	19.0		ug/L		95	42 - 133
Benzo[a]pyrene	20.0	19.2		ug/L		96	32 - 148
Benzo[b]fluoranthene	20.0	19.1		ug/L		96	42 - 140
Benzo[g,h,i]perylene	20.0	17.2		ug/L		86	1 - 195
Benzo[k]fluoranthene	20.0	18.2		ug/L		91	25 - 146
Chrysene	20.0	18.4		ug/L		92	44 - 140
Dibenz(a,h)anthracene	20.0	18.0		ug/L		90	1 - 200
Fluoranthene	20.0	18.7		ug/L		93	43 - 121
Fluorene	20.0	18.5		ug/L		92	70 - 120
Indeno[1,2,3-cd]pyrene	20.0	18.1		ug/L		91	1 - 151
Naphthalene	20.0	17.8		ug/L		89	36 - 120
Phenanthrene	20.0	18.2		ug/L		91	65 - 120
Pyrene	20.0	19.4		ug/L		97	70 - 120

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	91		28 - 127
2-Fluorobiphenyl (Surr)	85		31 - 120
2-Fluorophenol (Surr)	59		17 - 120
Nitrobenzene-d5 (Surr)	87		27 - 120
Phenol-d6 (Surr)	40		10 - 120

QC Sample Results

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

Job ID: 380-192688-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCS 570-684318/2-A

Matrix: Water

Analysis Batch: 687438

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 684318

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
<i>p</i> -Terphenyl-d14 (Surr)	92		45 - 120

Lab Sample ID: LCSD 570-684318/3-A

Matrix: Water

Analysis Batch: 687438

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 684318

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	
							Limits	RPD	Limit	
1-Methylnaphthalene	20.0	19.0		ug/L		95	47 - 120	6	20	
2-Methylnaphthalene	20.0	19.0		ug/L		95	43 - 120	5	20	
Acenaphthene	20.0	19.0		ug/L		95	60 - 132	3	29	
Acenaphthylene	20.0	19.2		ug/L		96	54 - 126	4	45	
Anthracene	20.0	19.2		ug/L		96	43 - 120	6	40	
Benzo[a]anthracene	20.0	20.0		ug/L		100	42 - 133	5	32	
Benzo[a]pyrene	20.0	20.5		ug/L		103	32 - 148	7	43	
Benzo[b]fluoranthene	20.0	19.8		ug/L		99	42 - 140	4	43	
Benzo[g,h,i]perylene	20.0	18.7		ug/L		93	1 - 195	9	61	
Benzo[k]fluoranthene	20.0	19.7		ug/L		98	25 - 146	8	38	
Chrysene	20.0	19.3		ug/L		97	44 - 140	5	53	
Dibenz(a,h)anthracene	20.0	19.6		ug/L		98	1 - 200	8	75	
Fluoranthene	20.0	19.3		ug/L		97	43 - 121	3	40	
Fluorene	20.0	19.2		ug/L		96	70 - 120	4	23	
Indeno[1,2,3-cd]pyrene	20.0	19.6		ug/L		98	1 - 151	8	60	
Naphthalene	20.0	18.6		ug/L		93	36 - 120	4	39	
Phenanthrene	20.0	18.8		ug/L		94	65 - 120	4	24	
Pyrene	20.0	20.3		ug/L		101	70 - 120	4	30	

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
<i>2,4,6</i> -Tribromophenol (Surr)	93		28 - 127
<i>2</i> -Fluorobiphenyl (Surr)	89		31 - 120
<i>2</i> -Fluorophenol (Surr)	63		17 - 120
Nitrobenzene-d5 (Surr)	90		27 - 120
Phenol-d6 (Surr)	43		10 - 120
<i>p</i> -Terphenyl-d14 (Surr)	92		45 - 120

Lab Sample ID: 380-192972-A-1-A MS

Matrix: Water

Analysis Batch: 687438

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 684318

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec	
				Result	Qualifier				Limits	
1-Methylnaphthalene	<0.19		19.2	14.8		ug/L		77	36 - 120	
2-Methylnaphthalene	<0.19		19.2	14.4		ug/L		75	32 - 124	
Acenaphthene	<0.19		19.2	15.0		ug/L		78	47 - 145	
Acenaphthylene	<0.19		19.2	15.2		ug/L		79	33 - 145	
Anthracene	<0.19		19.2	15.3		ug/L		79	27 - 133	
Benzo[a]anthracene	<0.19		19.2	15.6		ug/L		81	33 - 143	
Benzo[a]pyrene	<0.19		19.2	14.5		ug/L		76	17 - 163	
Benzo[b]fluoranthene	<0.19		19.2	14.6		ug/L		76	24 - 159	
Benzo[g,h,i]perylene	<0.19		19.2	12.7		ug/L		66	1 - 219	

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QC Sample Results

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

Job ID: 380-192688-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: 380-192972-A-1-A MS

Client Sample ID: Matrix Spike

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 687438

Prep Batch: 684318

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
Benzo[k]fluoranthene	<0.19		19.2	13.9		ug/L		73	11 - 162
Chrysene	<0.19		19.2	14.9		ug/L		77	17 - 168
Dibenz(a,h)anthracene	<0.19		19.2	13.0		ug/L		67	1 - 227
Fluoranthene	<0.19		19.2	15.8		ug/L		82	26 - 137
Fluorene	<0.19		19.2	15.2		ug/L		79	59 - 121
Indeno[1,2,3-cd]pyrene	<0.19		19.2	13.4		ug/L		69	1 - 171
Naphthalene	<0.19		19.2	14.6		ug/L		76	21 - 133
Phenanthrene	<0.19		19.2	15.4		ug/L		80	54 - 120
Pyrene	<0.19		19.2	16.9		ug/L		88	52 - 120

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	80		28 - 127
2-Fluorobiphenyl (Surr)	75		31 - 120
2-Fluorophenol (Surr)	51		17 - 120
Nitrobenzene-d5 (Surr)	74		27 - 120
Phenol-d6 (Surr)	34		10 - 120
p-Terphenyl-d14 (Surr)	76		45 - 120

Lab Sample ID: 380-192972-A-1-B MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 687438

Prep Batch: 684318

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
	Result	Qualifier	Added	Result	Qualifier						
1-Methylnaphthalene	<0.19		19.2	16.1		ug/L		84	36 - 120	9	30
2-Methylnaphthalene	<0.19		19.2	16.0		ug/L		83	32 - 124	10	30
Acenaphthene	<0.19		19.2	15.9		ug/L		83	47 - 145	6	48
Acenaphthylene	<0.19		19.2	16.0		ug/L		83	33 - 145	5	74
Anthracene	<0.19		19.2	16.4		ug/L		85	27 - 133	7	66
Benzo[a]anthracene	<0.19		19.2	16.8		ug/L		87	33 - 143	7	53
Benzo[a]pyrene	<0.19		19.2	15.6		ug/L		81	17 - 163	7	72
Benzo[b]fluoranthene	<0.19		19.2	15.5		ug/L		81	24 - 159	6	71
Benzo[g,h,i]perylene	<0.19		19.2	14.2		ug/L		74	1 - 219	11	97
Benzo[k]fluoranthene	<0.19		19.2	15.0		ug/L		78	11 - 162	7	63
Chrysene	<0.19		19.2	16.1		ug/L		84	17 - 168	8	87
Dibenz(a,h)anthracene	<0.19		19.2	14.7		ug/L		76	1 - 227	12	126
Fluoranthene	<0.19		19.2	17.1		ug/L		89	26 - 137	8	66
Fluorene	<0.19		19.2	16.1		ug/L		84	59 - 121	6	38
Indeno[1,2,3-cd]pyrene	<0.19		19.2	14.8		ug/L		77	1 - 171	10	99
Naphthalene	<0.19		19.2	15.9		ug/L		82	21 - 133	8	65
Phenanthrene	<0.19		19.2	16.3		ug/L		85	54 - 120	6	39
Pyrene	<0.19		19.2	18.0		ug/L		94	52 - 120	7	49

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	86		28 - 127
2-Fluorobiphenyl (Surr)	80		31 - 120
2-Fluorophenol (Surr)	54		17 - 120
Nitrobenzene-d5 (Surr)	80		27 - 120
Phenol-d6 (Surr)	36		10 - 120

QC Sample Results

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

Job ID: 380-192688-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: 380-192972-A-1-B MSD
Matrix: Water
Analysis Batch: 687438

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 684318

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
p-Terphenyl-d14 (Surr)	82		45 - 120

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

Lab Sample ID: MB 570-683659/5
Matrix: Water
Analysis Batch: 683659

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

Analyte	MB	MB							
	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac
GRO (C6-C10)	<10		10	ug/L			01/17/26 12:11	1	
Surrogate	MB	MB				Prepared	Analyzed	Dil	Fac
4-Bromofluorobenzene (Surr)	93		38 - 134				01/17/26 12:11	1	

Lab Sample ID: LCS 570-683659/3
Matrix: Water
Analysis Batch: 683659

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

Analyte		Spike	LCS	LCS				%Rec	
		Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (C4-C13)		400	392		ug/L		98	78 - 120	
Surrogate	LCS	LCS					%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)			87						38 - 134

Lab Sample ID: LCSD 570-683659/4
Matrix: Water
Analysis Batch: 683659

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

Analyte		Spike	LCSD	LCSD				%Rec		RPD	
		Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (C4-C13)		400	392		ug/L		98	78 - 120	0	10	
Surrogate	LCSD	LCSD					%Recovery	Qualifier	Limits		
4-Bromofluorobenzene (Surr)			98						38 - 134		

Lab Sample ID: MRL 570-683659/6
Matrix: Water
Analysis Batch: 683659

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

Analyte		Spike	MRL	MRL				%Rec	
		Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (C4-C13)		10.0	7.96	J	ug/L		80	50 - 150	
Surrogate	MRL	MRL					%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)			87						38 - 134

QC Sample Results

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

Job ID: 380-192688-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: 380-192922-C-1 MS
Matrix: Water
Analysis Batch: 683659

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	367		ug/L		92	68 - 122
Surrogate	%Recovery	Qualifier	Limits						
4-Bromofluorobenzene (Surr)	92		38 - 134						

Lab Sample ID: 380-192922-C-1 MSD
Matrix: Water
Analysis Batch: 683659

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	393		ug/L		98	68 - 122	7	18
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	96		38 - 134								

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

Lab Sample ID: MB 570-684016/1-A
Matrix: Water
Analysis Batch: 686665

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 684016

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<25		25	ug/L		01/19/26 10:29	01/24/26 20:24	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		01/19/26 10:29	01/24/26 20:24	1
C8-C18	<25		25	ug/L		01/19/26 10:29	01/24/26 20:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	123		60 - 130			01/19/26 10:29	01/24/26 20:24	1

Lab Sample ID: LCS 570-684016/2-A
Matrix: Water
Analysis Batch: 686665

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 684016

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
C10-C28	1600	1560		ug/L		97	56 - 127
Surrogate	%Recovery	Qualifier	Limits				
n-Octacosane (Surr)	124		60 - 130				

Lab Sample ID: LCSD 570-684016/3-A
Matrix: Water
Analysis Batch: 686665

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 684016

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28	1600	1670		ug/L		104	56 - 127	7	23

QC Sample Results

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

Job ID: 380-192688-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCSD 570-684016/3-A
Matrix: Water
Analysis Batch: 686665

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 684016

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

Lab Sample ID: MRL 570-684016/4-A
Matrix: Water
Analysis Batch: 686665

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 684016

Analyte			Spike Added	MRL	MRL	Unit	D	%Rec	%Rec
				Result	Qualifier				Limits
C10-C28			0.0200	0.0202	J	mg/L		101	50 - 150

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

Lab Sample ID: 380-192922-A-1-A MS
Matrix: Water
Analysis Batch: 686665

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 684016

Analyte	Sample Result	Sample Qualifier	Spike Added	MS	MS	Unit	D	%Rec	%Rec
				Result	Qualifier				Limits
C10-C28	<26		1650	1600		ug/L		97	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
<i>n-Octacosane (Surr)</i>	120		60 - 130

Lab Sample ID: 380-192922-A-1-B MSD
Matrix: Water
Analysis Batch: 686665

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 684016

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD	MSD	Unit	D	%Rec	%Rec	RPD	
				Result	Qualifier				Limits	RPD	Limit
C10-C28	<26		1640	1720		ug/L		105	70 - 130	7	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
<i>n-Octacosane (Surr)</i>	133	S1+	60 - 130

QC Association Summary

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

Job ID: 380-192688-1
 SDG: Weekly: Halawa Shaft Viewing Pool

GC/MS Semi VOA

Prep Batch: 198749

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-192688-1	Halawa Shaft Viewing Pool	Total/NA	Water	525.2	
MB 380-198749/21-A	Method Blank	Total/NA	Water	525.2	
LCS 380-198749/23-A	Lab Control Sample	Total/NA	Water	525.2	
LCS 380-198749/24-A	Lab Control Sample Dup	Total/NA	Water	525.2	
MRL 380-198749/22-A	Lab Control Sample	Total/NA	Water	525.2	
380-192326-AT-1-A MS	Matrix Spike	Total/NA	Water	525.2	
380-192688-1 DU	Halawa Shaft Viewing Pool	Total/NA	Water	525.2	

Analysis Batch: 199024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-192688-1	Halawa Shaft Viewing Pool	Total/NA	Water	525.2	198749
MB 380-198749/21-A	Method Blank	Total/NA	Water	525.2	198749
LCS 380-198749/23-A	Lab Control Sample	Total/NA	Water	525.2	198749
LCS 380-198749/24-A	Lab Control Sample Dup	Total/NA	Water	525.2	198749
MRL 380-198749/22-A	Lab Control Sample	Total/NA	Water	525.2	198749
380-192326-AT-1-A MS	Matrix Spike	Total/NA	Water	525.2	198749
380-192688-1 DU	Halawa Shaft Viewing Pool	Total/NA	Water	525.2	198749

Prep Batch: 684318

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-192688-1	Halawa Shaft Viewing Pool	Total/NA	Water	625.1	
MB 570-684318/1-A	Method Blank	Total/NA	Water	625.1	
LCS 570-684318/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCS 570-684318/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	
380-192972-A-1-A MS	Matrix Spike	Total/NA	Water	625.1	
380-192972-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	625.1	

Analysis Batch: 687438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-684318/1-A	Method Blank	Total/NA	Water	625.1 SIM	684318
LCS 570-684318/2-A	Lab Control Sample	Total/NA	Water	625.1 SIM	684318
LCS 570-684318/3-A	Lab Control Sample Dup	Total/NA	Water	625.1 SIM	684318
380-192972-A-1-A MS	Matrix Spike	Total/NA	Water	625.1 SIM	684318
380-192972-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	625.1 SIM	684318

Analysis Batch: 688099

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-192688-1	Halawa Shaft Viewing Pool	Total/NA	Water	625.1 SIM	684318

Analysis Batch: 688564

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-192688-1	Halawa Shaft Viewing Pool	Total/NA	Water	625.1	684318

GC VOA

Analysis Batch: 683659

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-192688-1	Halawa Shaft Viewing Pool	Total/NA	Water	8015B GRO LL	
380-192688-2	TB:Halawa Shaft Viewing Pool	Total/NA	Water	8015B GRO LL	
MB 570-683659/5	Method Blank	Total/NA	Water	8015B GRO LL	
LCS 570-683659/3	Lab Control Sample	Total/NA	Water	8015B GRO LL	

QC Association Summary

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

Job ID: 380-192688-1
 SDG: Weekly: Halawa Shaft Viewing Pool

GC VOA (Continued)

Analysis Batch: 683659 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 570-683659/4	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	
MRL 570-683659/6	Lab Control Sample	Total/NA	Water	8015B GRO LL	
380-192922-C-1 MS	Matrix Spike	Total/NA	Water	8015B GRO LL	
380-192922-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8015B GRO LL	

GC Semi VOA

Prep Batch: 684016

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-192688-1	Halawa Shaft Viewing Pool	Total/NA	Water	3510C	
MB 570-684016/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-684016/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-684016/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-684016/4-A	Lab Control Sample	Total/NA	Water	3510C	
380-192922-A-1-A MS	Matrix Spike	Total/NA	Water	3510C	
380-192922-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

Analysis Batch: 686665

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-192688-1	Halawa Shaft Viewing Pool	Total/NA	Water	8015B	684016
MB 570-684016/1-A	Method Blank	Total/NA	Water	8015B	684016
LCS 570-684016/2-A	Lab Control Sample	Total/NA	Water	8015B	684016
LCSD 570-684016/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	684016
MRL 570-684016/4-A	Lab Control Sample	Total/NA	Water	8015B	684016
380-192922-A-1-A MS	Matrix Spike	Total/NA	Water	8015B	684016
380-192922-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	8015B	684016

Lab Chronicle

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

Job ID: 380-192688-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: Halawa Shaft Viewing Pool

Lab Sample ID: 380-192688-1

Date Collected: 01/13/26 09:30

Matrix: Water

Date Received: 01/15/26 09:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			198749	KRD3	EA POM	01/18/26 13:23
Total/NA	Analysis	525.2		1	199024	Q8LA	EA POM	01/19/26 15:46
Total/NA	Prep	625.1			684318	H1SH	EET CAL 4	01/20/26 06:00
Total/NA	Analysis	625.1		1	688564	J7WE	EET CAL 4	01/29/26 18:32
Total/NA	Prep	625.1			684318	H1SH	EET CAL 4	01/20/26 06:00
Total/NA	Analysis	625.1 SIM		1	688099	CG	EET CAL 4	01/28/26 15:12
Total/NA	Analysis	8015B GRO LL		1	683659	YD9V	EET CAL 4	01/17/26 15:36
Total/NA	Prep	3510C			684016	TVD6	EET CAL 4	01/19/26 10:30
Total/NA	Analysis	8015B		1	686665	H6FE	EET CAL 4	01/25/26 00:42

Client Sample ID: TB:Halawa Shaft Viewing Pool

Lab Sample ID: 380-192688-2

Date Collected: 01/13/26 09:30

Matrix: Water

Date Received: 01/15/26 09:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	683659	YD9V	EET CAL 4	01/17/26 18:42

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: 380-192688-1
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 Summary

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

Job ID: 380-192688-1
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

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Method Summary

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

Job ID: 380-192688-1
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: 380-192688-1
SDG: Weekly: Halawa Shaft Viewing Pool

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
380-192688-1	Halawa Shaft Viewing Pool	Water	01/13/26 09:30	01/15/26 09:38	Hawaii
380-192688-2	TB:Halawa Shaft Viewing Pool	Water	01/13/26 09:30	01/15/26 09:38	Hawaii

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Chain of Custody Record



Client Information Client Contact: Mr Kirk Iwamoto Company: City & County of Honolulu Address: 630 South Beretania Street Chemistry Lab City: Honolulu State, Zip: HI 96843 Phone: 808-748-5840 (Tel) Email: Kiriwamoto@hbws.org Project Name: RED-HILL/HBWS Sites Event Desc: RUSH Weekly Red Hill Site: Hawaii		Lab PM: Arada, Rachelle E-Mail: Rachelle.Arada@eurofins.com PWSID:		Sampler: Kai Edison Phone: +1 808 748 5840		Carrier Tracking No(s): 380-28005-2757 1 State of Origin:		Page: Page 1 of 1 Job #:			
Due Date Requested: TAT Requested (days): Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No PO #: C20525101 exp 05312023 WO #:		Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> 8015B_DR0_LL_CS HNL Ranges C10-C24/C24-C38/C8-C18 8015B_GRO_LL (MOD) GRO 8015B_DR0_LL_CS HNL Ranges C10-C24/C24-C38/C8-C18 825_2_PREC (MOD) 825plus Plus TICs 537_1_DW_PREC - 537 1 Full List 533 - All Analytes		Analysis Requested Preservation Codes: R - NaThioSO4 RA - NaThioHCl O - Na2SO3 OA - Na2SO3/HCl Y - Trizma J - NH4 Acetate Other:		Total Number of Containers:		Special Instructions/Note:			
Sample Identification Halawa Shaft Viewing Pool TB: Halawa Shaft Viewing Pool		Sample Date: 13-Jan-2026 Sample Time: 9:30 Sample Type (C=Comp, G=grab): G Matrix (V=water, S=solid, O=soil, BT=Tissue, A=Air): Water		Preservation Code:		R 2 3 2 2 RA 3 2 2 O 2					
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested I, II, III, IV Other (specify)										Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Empty Kit Relinquished by:										Method of Shipment:	
Relinquished by:										Date/Time: 1/14/26 11:00 Company: HBWS	
Relinquished by:										Date/Time:	
Relinquished by:										Date/Time:	
Custody Seals Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No										Cooler Temperature(s) °C and Other Remarks: 630K 60/60 yel frozen	



Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler: N/A	Lab PM: Lopez, Maria	Carrier Tracking No(s): N/A	COC No: 380-295277.1							
Client Contact: Shipping/Receiving		Phone: N/A	E-Mail: Maria.Lopez@et.eurofinsus.com	State of Origin: Hawaii	Page: Page 1 of 1							
Company: Eurofins Environment Testing Southwest L		Accreditations Required (See note): State - Hawaii			Job #: 380-192688-1							
Address: 2841 Dow Avenue, Suite 100, City: Tustin State, Zip: CA, 92780		Due Date Requested: 1/28/2026	Analysis Requested		Preservation Codes:							
Phone: 714-895-5494(Tel)		TAT Requested (days): N/A	<p>380-192688 Chain of Custody</p>									
Email: N/A		PO #: N/A										
Project Name: RED-HILL		WO #: N/A										
Site: Honolulu BWS Sites		Project #: 38001111										
		SSOW#: N/A										
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Seawater, Groundwater, Surface Water, Air, Soil, Sediment, Sludge, Other)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8016B_DRO_LL_CS&S10C_LLPHL_Ranges: C10-C24/C34-C36/C3-C18	8016B_GRO_LLJ5030C(MOD) GRO	625.1_SIM625_Prep(MOD) Extended PAH List	625.1625_Prep(MOD) Tentatively Identified Components (Field)	Total Number	Special Instructions/Note:
						Preservation Code:						
Halawa Shaft Viewing Pool (380-192688-1)	1/13/26	09:30 Hawaiian	G	Water			X	X	X	X	7	MRLs are needed. Confirm any hits >RL.
TB:Halawa Shaft Viewing Pool (380-192688-2)	1/13/26	09:30 Hawaiian	G	Water				X			2	MRLs are needed. Confirm any hits >RL.
Note: Since laboratory accreditations are subject to change, Eurofins Drinking Water and Wastewater West, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Drinking Water and Wastewater West, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Drinking Water and Wastewater West, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Drinking Water and Wastewater West, LLC.												
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)						
Unconfirmed						<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months						
Deliverable Requested: I, II, III, IV, Other (specify)			Primary Deliverable Rank: 2			Special Instructions/QC Requirements:						
Empty Kit Relinquished by:		Date:	Time:		Method of Shipment:							
Relinquished by: <i>Xozz</i>		Date/Time: <i>1/16/26 12:00</i>	Company: <i>EBA</i>		Received by: <i>[Signature]</i>		Date/Time: <i>1/16/26 12:00</i>		Company: <i>REC</i>			
Relinquished by:		Date/Time:	Company:		Received by:		Date/Time:		Company:			
Relinquished by:		Date/Time:	Company:		Received by:		Date/Time:		Company:			
Custody Seals Intact: △ Yes △ No		Custody Seal No.:			Cooler Temperature(s) °C and Other Remarks: <i>6.9/1.0 125</i>							

2K9P

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-192688-1

SDG Number: Weekly: Halawa Shaft Viewing Pool

Login Number: 192688

List Number: 1

Creator: Tran, Kristine

List Source: Eurofins Pomona

Question	Answer	Comment
The coolers custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
Samples were received on ice.	True	
Cooler(s) Temperature is acceptable.	True	
Cooler(s) Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and is legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
CIO4 headspace requirement met (>50% for CA, >30% for other states).	N/A	
Samples do not require splitting or compositing.	True	
Container provided by EEA	True	



Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-192688-1
SDG Number: Weekly: Halawa Shaft Viewing Pool

Login Number: 192688

List Number: 2

Creator: Szymborski, Jessica

List Source: Eurofins Calscience

List Creation: 01/16/26 05:47 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	0.9/1.0
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	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	