

ANALYTICAL REPORT

PREPARED FOR

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JOB DESCRIPTION

RED-HILL
Weekly: Halawa Shaft Viewing Pool

JOB NUMBER

380-201560-1

Eurofins Pomona

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

Compliance Statement

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

Authorization



Authorized for release by
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Definitions/Glossary

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

Job ID: 380-201560-1
SDG: Weekly: Halawa Shaft Viewing Pool

Qualifiers

GC/MS Semi VOA

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

GC/MS Semi VOA TICs

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

GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD 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.

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: 380-201560-1

Job ID: 380-201560-1

Eurofins Pomona

Job Narrative 380-201560-1

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 3/5/2026 10:20 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 3.7°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 570-706080.

3510 625.1_SIM

Method 625.1 SIM: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 570-706080.

3510 625.1_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

Method 8015B: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 570-704786 and analytical batch 570-706200 recovered outside control limits for the following analytes: C10-C28. Laboratory control sample / laboratory control sample duplicate (LCS/LCSD) percent recovery is in control for affected analytes.

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: 380-201560-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: Halawa Shaft Viewing Pool

Lab Sample ID: 380-201560-1

No Detections.

Client Sample ID: TB: Halawa Shaft Viewing Pool

Lab Sample ID: 380-201560-2

No Detections.

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

This Detection Summary does not include radiochemical test results.

Client Sample Results

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

Job ID: 380-201560-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: Halawa Shaft Viewing Pool

Lab Sample ID: 380-201560-1

Date Collected: 03/03/26 09:25

Matrix: Water

Date Received: 03/05/26 10:20

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.096		0.096	ug/L		03/10/26 08:10	03/11/26 16:27	1
2,4'-DDD	<0.096		0.096	ug/L		03/10/26 08:10	03/11/26 16:27	1
2,4'-DDE	<0.096		0.096	ug/L		03/10/26 08:10	03/11/26 16:27	1
2,4'-DDT	<0.096		0.096	ug/L		03/10/26 08:10	03/11/26 16:27	1
2,4-Dinitrotoluene	<0.096		0.096	ug/L		03/10/26 08:10	03/11/26 16:27	1
2,6-Dinitrotoluene	<0.096		0.096	ug/L		03/10/26 08:10	03/11/26 16:27	1
2-Methylnaphthalene	<0.096		0.096	ug/L		03/10/26 08:10	03/11/26 16:27	1
4,4'-DDD	<0.096		0.096	ug/L		03/10/26 08:10	03/11/26 16:27	1
4,4'-DDE	<0.096		0.096	ug/L		03/10/26 08:10	03/11/26 16:27	1
4,4'-DDT	<0.096		0.096	ug/L		03/10/26 08:10	03/11/26 16:27	1
Acenaphthene	<0.096		0.096	ug/L		03/10/26 08:10	03/11/26 16:27	1
Acenaphthylene	<0.096		0.096	ug/L		03/10/26 08:10	03/11/26 16:27	1
Acetochlor	<0.096		0.096	ug/L		03/10/26 08:10	03/11/26 16:27	1
Alachlor	<0.048		0.048	ug/L		03/10/26 08:10	03/11/26 16:27	1
alpha-BHC	<0.096		0.096	ug/L		03/10/26 08:10	03/11/26 16:27	1
alpha-Chlordane	<0.048		0.048	ug/L		03/10/26 08:10	03/11/26 16:27	1
Anthracene	<0.019		0.019	ug/L		03/10/26 08:10	03/11/26 16:27	1
Atrazine	<0.048		0.048	ug/L		03/10/26 08:10	03/11/26 16:27	1
Benz(a)anthracene	<0.048		0.048	ug/L		03/10/26 08:10	03/11/26 16:27	1
Benzo[a]pyrene	<0.019		0.019	ug/L		03/10/26 08:10	03/11/26 16:27	1
Benzo[b]fluoranthene	<0.019		0.019	ug/L		03/10/26 08:10	03/11/26 16:27	1
Benzo[g,h,i]perylene	<0.048	*1	0.048	ug/L		03/10/26 08:10	03/11/26 16:27	1
Benzo[k]fluoranthene	<0.019		0.019	ug/L		03/10/26 08:10	03/11/26 16:27	1
beta-BHC	<0.096		0.096	ug/L		03/10/26 08:10	03/11/26 16:27	1
Bis(2-ethylhexyl) phthalate	<0.58		0.58	ug/L		03/10/26 08:10	03/11/26 16:27	1
Bromacil	<0.096		0.096	ug/L		03/10/26 08:10	03/11/26 16:27	1
Butachlor	<0.048		0.048	ug/L		03/10/26 08:10	03/11/26 16:27	1
Butylbenzylphthalate	<0.48		0.48	ug/L		03/10/26 08:10	03/11/26 16:27	1
Chlorobenzilate	<0.096		0.096	ug/L		03/10/26 08:10	03/11/26 16:27	1
Chloroneb	<0.096		0.096	ug/L		03/10/26 08:10	03/11/26 16:27	1
Chlorothalonil (Draconil, Bravo)	<0.096		0.096	ug/L		03/10/26 08:10	03/11/26 16:27	1
Chlorpyrifos	<0.048		0.048	ug/L		03/10/26 08:10	03/11/26 16:27	1
Chrysene	<0.019		0.019	ug/L		03/10/26 08:10	03/11/26 16:27	1
delta-BHC	<0.096		0.096	ug/L		03/10/26 08:10	03/11/26 16:27	1
Di(2-ethylhexyl)adipate	<0.58		0.58	ug/L		03/10/26 08:10	03/11/26 16:27	1
Dibenz(a,h)anthracene	<0.048		0.048	ug/L		03/10/26 08:10	03/11/26 16:27	1
Diclorvos (DDVP)	<0.048		0.048	ug/L		03/10/26 08:10	03/11/26 16:27	1
Dieldrin	<0.0096		0.0096	ug/L		03/10/26 08:10	03/11/26 16:27	1
Diethylphthalate	<0.48		0.48	ug/L		03/10/26 08:10	03/11/26 16:27	1
Dimethylphthalate	<0.48		0.48	ug/L		03/10/26 08:10	03/11/26 16:27	1
Di-n-butyl phthalate	<0.96		0.96	ug/L		03/10/26 08:10	03/11/26 16:27	1
Di-n-octyl phthalate	<0.096		0.096	ug/L		03/10/26 08:10	03/11/26 16:27	1
Endosulfan I (Alpha)	<0.096		0.096	ug/L		03/10/26 08:10	03/11/26 16:27	1
Endosulfan II (Beta)	<0.096		0.096	ug/L		03/10/26 08:10	03/11/26 16:27	1
Endosulfan sulfate	<0.096		0.096	ug/L		03/10/26 08:10	03/11/26 16:27	1
Endrin	<0.0096		0.0096	ug/L		03/10/26 08:10	03/11/26 16:27	1
Endrin aldehyde	<0.096		0.096	ug/L		03/10/26 08:10	03/11/26 16:27	1
EPTC	<0.096		0.096	ug/L		03/10/26 08:10	03/11/26 16:27	1
Fluoranthene	<0.096		0.096	ug/L		03/10/26 08:10	03/11/26 16:27	1

Client Sample Results

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

Job ID: 380-201560-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: Halawa Shaft Viewing Pool

Lab Sample ID: 380-201560-1

Date Collected: 03/03/26 09:25

Matrix: Water

Date Received: 03/05/26 10:20

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	<0.048		0.048	ug/L		03/10/26 08:10	03/11/26 16:27	1
gamma-Chlordane	<0.048		0.048	ug/L		03/10/26 08:10	03/11/26 16:27	1
Heptachlor	<0.0096		0.0096	ug/L		03/10/26 08:10	03/11/26 16:27	1
Heptachlor epoxide (isomer B)	<0.0096		0.0096	ug/L		03/10/26 08:10	03/11/26 16:27	1
Hexachlorobenzene	<0.048		0.048	ug/L		03/10/26 08:10	03/11/26 16:27	1
Hexachlorocyclopentadiene	<0.048		0.048	ug/L		03/10/26 08:10	03/11/26 16:27	1
Indeno[1,2,3-cd]pyrene	<0.048		0.048	ug/L		03/10/26 08:10	03/11/26 16:27	1
Isophorone	<0.096		0.096	ug/L		03/10/26 08:10	03/11/26 16:27	1
Lindane	<0.0096		0.0096	ug/L		03/10/26 08:10	03/11/26 16:27	1
Malathion	<0.096		0.096	ug/L		03/10/26 08:10	03/11/26 16:27	1
Methoxychlor	<0.048		0.048	ug/L		03/10/26 08:10	03/11/26 16:27	1
Metolachlor	<0.048		0.048	ug/L		03/10/26 08:10	03/11/26 16:27	1
Molinate	<0.096		0.096	ug/L		03/10/26 08:10	03/11/26 16:27	1
Naphthalene	<0.096	^3+	0.096	ug/L		03/10/26 08:10	03/11/26 16:27	1
Parathion	<0.096		0.096	ug/L		03/10/26 08:10	03/11/26 16:27	1
Pendimethalin (Penoxaline)	<0.096		0.096	ug/L		03/10/26 08:10	03/11/26 16:27	1
Phenanthrene	<0.039		0.039	ug/L		03/10/26 08:10	03/11/26 16:27	1
Propachlor	<0.048		0.048	ug/L		03/10/26 08:10	03/11/26 16:27	1
Pyrene	<0.048		0.048	ug/L		03/10/26 08:10	03/11/26 16:27	1
Simazine	<0.048		0.048	ug/L		03/10/26 08:10	03/11/26 16:27	1
Terbacil	<0.096		0.096	ug/L		03/10/26 08:10	03/11/26 16:27	1
Terbutylazine	<0.096		0.096	ug/L		03/10/26 08:10	03/11/26 16:27	1
Thiobencarb	<0.096		0.096	ug/L		03/10/26 08:10	03/11/26 16:27	1
Total Permethrin (mixed isomers)	<0.19		0.19	ug/L		03/10/26 08:10	03/11/26 16:27	1
trans-Nonachlor	<0.048		0.048	ug/L		03/10/26 08:10	03/11/26 16:27	1
Trifluralin	<0.096		0.096	ug/L		03/10/26 08:10	03/11/26 16:27	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	03/10/26 08:10	03/11/26 16:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	98		70 - 130	03/10/26 08:10	03/11/26 16:27	1
Perylene-d12	98		70 - 130	03/10/26 08:10	03/11/26 16:27	1
Triphenylphosphate	108		70 - 130	03/10/26 08:10	03/11/26 16:27	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.19		0.19	ug/L		03/08/26 09:07	03/09/26 14:42	1
2-Methylnaphthalene	<0.19		0.19	ug/L		03/08/26 09:07	03/09/26 14:42	1
Acenaphthene	<0.19		0.19	ug/L		03/08/26 09:07	03/09/26 14:42	1
Acenaphthylene	<0.19		0.19	ug/L		03/08/26 09:07	03/09/26 14:42	1
Anthracene	<0.19		0.19	ug/L		03/08/26 09:07	03/09/26 14:42	1
Benzo[a]anthracene	<0.19		0.19	ug/L		03/08/26 09:07	03/09/26 14:42	1
Benzo[a]pyrene	<0.19		0.19	ug/L		03/08/26 09:07	03/09/26 14:42	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		03/08/26 09:07	03/09/26 14:42	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		03/08/26 09:07	03/09/26 14:42	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		03/08/26 09:07	03/09/26 14:42	1
Chrysene	<0.19		0.19	ug/L		03/08/26 09:07	03/09/26 14:42	1
Dibenz(a,h)anthracene	<0.19		0.19	ug/L		03/08/26 09:07	03/09/26 14:42	1
Fluoranthene	<0.19		0.19	ug/L		03/08/26 09:07	03/09/26 14:42	1

Eurofins Pomona

Client Sample Results

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

Job ID: 380-201560-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: Halawa Shaft Viewing Pool

Lab Sample ID: 380-201560-1

Date Collected: 03/03/26 09:25

Matrix: Water

Date Received: 03/05/26 10:20

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	<0.19		0.19	ug/L		03/08/26 09:07	03/09/26 14:42	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		03/08/26 09:07	03/09/26 14:42	1
Naphthalene	<0.19		0.19	ug/L		03/08/26 09:07	03/09/26 14:42	1
Phenanthrene	<0.19		0.19	ug/L		03/08/26 09:07	03/09/26 14:42	1
Pyrene	<0.19		0.19	ug/L		03/08/26 09:07	03/09/26 14:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	91		28 - 127	03/08/26 09:07	03/09/26 14:42	1
2-Fluorobiphenyl (Surr)	86		31 - 120	03/08/26 09:07	03/09/26 14:42	1
2-Fluorophenol (Surr)	49		17 - 120	03/08/26 09:07	03/09/26 14:42	1
Nitrobenzene-d5 (Surr)	85		27 - 120	03/08/26 09:07	03/09/26 14:42	1
Phenol-d6 (Surr)	30		10 - 120	03/08/26 09:07	03/09/26 14:42	1
p-Terphenyl-d14 (Surr)	79		45 - 120	03/08/26 09:07	03/09/26 14:42	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
Ethylidenecyclobutane	14	T J N	ug/L		1.42	1528-21-8	03/08/26 09:07	03/20/26 20:59	1
Cyclic octaatomic sulfur	8.0	T J N	ug/L		9.79	10544-50-0	03/08/26 09:07	03/20/26 20:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	81		33 - 139	03/08/26 09:07	03/20/26 20:59	1
2-Fluorobiphenyl (Surr)	91		33 - 126	03/08/26 09:07	03/20/26 20:59	1
2-Fluorophenol (Surr)	55		12 - 120	03/08/26 09:07	03/20/26 20:59	1
Nitrobenzene-d5 (Surr)	84		36 - 120	03/08/26 09:07	03/20/26 20:59	1
Phenol-d6 (Surr)	32		10 - 120	03/08/26 09:07	03/20/26 20:59	1
p-Terphenyl-d14 (Surr)	94		47 - 131	03/08/26 09:07	03/20/26 20:59	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			03/16/26 19:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		38 - 134		03/16/26 19:42	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<25		25	ug/L		03/05/26 19:47	03/15/26 19:41	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		03/05/26 19:47	03/15/26 19:41	1
C8-C18	<25		25	ug/L		03/05/26 19:47	03/15/26 19:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	122		60 - 130	03/05/26 19:47	03/15/26 19:41	1

Client Sample ID: TB: Halawa Shaft Viewing Pool

Lab Sample ID: 380-201560-2

Date Collected: 03/03/26 09:25

Matrix: Water

Date Received: 03/05/26 10:20

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			03/16/26 18:33	1

Client Sample Results

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

Job ID: 380-201560-1
 SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: TB: Halawa Shaft Viewing Pool

Lab Sample ID: 380-201560-2

Date Collected: 03/03/26 09:25

Matrix: Water

Date Received: 03/05/26 10:20

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
4-Bromofluorobenzene (Surr)	89		38 - 134		03/16/26 18:33	1

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

Action Limit Summary

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

Job ID: 380-201560-1
 SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: Halawa Shaft Viewing Pool

Lab Sample ID: 380-201560-1

Compliance Check

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

Analyte	Result	Qualifier	Unit	EPAMCL	RL	Method	Prep Type
				Limit			
Alachlor	<0.048		ug/L	2	0.048	525.2	Total/NA
Atrazine	<0.048		ug/L	3	0.048	525.2	Total/NA
Benzo[a]pyrene	<0.019		ug/L	0.2	0.019	525.2	Total/NA
Bis(2-ethylhexyl) phthalate	<0.58		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	<0.0096		ug/L	2	0.0096	525.2	Total/NA
Heptachlor	<0.0096		ug/L	0.4	0.0096	525.2	Total/NA
Heptachlor epoxide (isomer B)	<0.0096		ug/L	0.2	0.0096	525.2	Total/NA
Hexachlorobenzene	<0.048		ug/L	1	0.048	525.2	Total/NA
Hexachlorocyclopentadiene	<0.048		ug/L	50	0.048	525.2	Total/NA
Lindane	<0.0096		ug/L	0.2	0.0096	525.2	Total/NA
Methoxychlor	<0.048		ug/L	40	0.048	525.2	Total/NA
Simazine	<0.048		ug/L	4	0.048	525.2	Total/NA
Benzo[a]pyrene	<0.19		ug/L	0.2	0.19	625.1 SIM	Total/NA

Surrogate Summary

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

Job ID: 380-201560-1
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)
380-201560-1	Halawa Shaft Viewing Pool	98	98	108
380-201914-I-1-A MS	Matrix Spike	97	94	112
380-201996-T-1-A DU	Duplicate	97	95	105
LCS 380-212010/23-A	Lab Control Sample	96	100	109
LCSD 380-212010/24-A	Lab Control Sample Dup	96	110	111
MB 380-212010/21-A	Method Blank	94	83	102
MRL 380-212010/22-A	Lab Control Sample	95	95	106

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)
380-201560-1	Halawa Shaft Viewing Pool	81	91	55	84	32	94
MB 570-706080/1-A	Method Blank	79	91	57	87	33	91

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)
380-201560-1	Halawa Shaft Viewing Pool	91	86	49	85	30	79
LCS 570-706080/2-A	Lab Control Sample	83	87	60	73	39	89
LCSD 570-706080/3-A	Lab Control Sample Dup	72	75	53	65	35	79
MB 570-706080/1-A	Method Blank	86	87	50	85	32	82

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: 380-201560-1
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)
380-201560-1	Halawa Shaft Viewing Pool	92
380-201560-2	TB: Halawa Shaft Viewing Pool	89
380-202475-C-1 MS	Matrix Spike	90
380-202475-C-1 MSD	Matrix Spike Duplicate	89
LCS 570-709726/3	Lab Control Sample	84
LCSD 570-709726/4	Lab Control Sample Dup	86
MB 570-709726/6	Method Blank	89
MRL 570-709726/5	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)
380-201163-C-1-A MS	Matrix Spike	125
380-201163-C-1-B MSD	Matrix Spike Duplicate	110
380-201560-1	Halawa Shaft Viewing Pool	122
LCS 570-704786/2-A	Lab Control Sample	106
LCSD 570-704786/3-A	Lab Control Sample Dup	102
MB 570-704786/1-A	Method Blank	103
MRL 570-704786/4-A	Lab Control Sample	105

Surrogate Legend

OTCSN = n-Octacosane (Surr)

QC Sample Results

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

Job ID: 380-201560-1
 SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MB 380-212010/21-A
Matrix: Water
Analysis Batch: 212339

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 212010

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1-Methylnaphthalene	<0.099		0.099	ug/L		03/10/26 08:10	03/11/26 08:43	1
2,4'-DDD	<0.099		0.099	ug/L		03/10/26 08:10	03/11/26 08:43	1
2,4'-DDE	<0.099		0.099	ug/L		03/10/26 08:10	03/11/26 08:43	1
2,4'-DDT	<0.099		0.099	ug/L		03/10/26 08:10	03/11/26 08:43	1
2,4-Dinitrotoluene	<0.099		0.099	ug/L		03/10/26 08:10	03/11/26 08:43	1
2,6-Dinitrotoluene	<0.099		0.099	ug/L		03/10/26 08:10	03/11/26 08:43	1
2-Methylnaphthalene	<0.099		0.099	ug/L		03/10/26 08:10	03/11/26 08:43	1
4,4'-DDD	<0.099		0.099	ug/L		03/10/26 08:10	03/11/26 08:43	1
4,4'-DDE	<0.099		0.099	ug/L		03/10/26 08:10	03/11/26 08:43	1
4,4'-DDT	<0.099		0.099	ug/L		03/10/26 08:10	03/11/26 08:43	1
Acenaphthene	<0.099		0.099	ug/L		03/10/26 08:10	03/11/26 08:43	1
Acenaphthylene	<0.099		0.099	ug/L		03/10/26 08:10	03/11/26 08:43	1
Acetochlor	<0.099		0.099	ug/L		03/10/26 08:10	03/11/26 08:43	1
Alachlor	<0.050		0.050	ug/L		03/10/26 08:10	03/11/26 08:43	1
alpha-BHC	<0.099		0.099	ug/L		03/10/26 08:10	03/11/26 08:43	1
alpha-Chlordane	<0.050		0.050	ug/L		03/10/26 08:10	03/11/26 08:43	1
Anthracene	<0.020		0.020	ug/L		03/10/26 08:10	03/11/26 08:43	1
Atrazine	<0.050		0.050	ug/L		03/10/26 08:10	03/11/26 08:43	1
Benz(a)anthracene	<0.050		0.050	ug/L		03/10/26 08:10	03/11/26 08:43	1
Benzo[a]pyrene	<0.020		0.020	ug/L		03/10/26 08:10	03/11/26 08:43	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		03/10/26 08:10	03/11/26 08:43	1
Benzo[g,h,i]perylene	<0.050		0.050	ug/L		03/10/26 08:10	03/11/26 08:43	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		03/10/26 08:10	03/11/26 08:43	1
beta-BHC	<0.099		0.099	ug/L		03/10/26 08:10	03/11/26 08:43	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		03/10/26 08:10	03/11/26 08:43	1
Bromacil	<0.099		0.099	ug/L		03/10/26 08:10	03/11/26 08:43	1
Butachlor	<0.050		0.050	ug/L		03/10/26 08:10	03/11/26 08:43	1
Butylbenzylphthalate	<0.50		0.50	ug/L		03/10/26 08:10	03/11/26 08:43	1
Chlorobenzilate	<0.099		0.099	ug/L		03/10/26 08:10	03/11/26 08:43	1
Chloroneb	<0.099		0.099	ug/L		03/10/26 08:10	03/11/26 08:43	1
Chlorothalonil (Draconil, Bravo)	<0.099		0.099	ug/L		03/10/26 08:10	03/11/26 08:43	1
Chlorpyrifos	<0.050		0.050	ug/L		03/10/26 08:10	03/11/26 08:43	1
Chrysene	<0.020		0.020	ug/L		03/10/26 08:10	03/11/26 08:43	1
delta-BHC	<0.099		0.099	ug/L		03/10/26 08:10	03/11/26 08:43	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		03/10/26 08:10	03/11/26 08:43	1
Dibenz(a,h)anthracene	<0.050		0.050	ug/L		03/10/26 08:10	03/11/26 08:43	1
Diclorvos (DDVP)	<0.050		0.050	ug/L		03/10/26 08:10	03/11/26 08:43	1
Dieldrin	<0.0099		0.0099	ug/L		03/10/26 08:10	03/11/26 08:43	1
Diethylphthalate	<0.50		0.50	ug/L		03/10/26 08:10	03/11/26 08:43	1
Dimethylphthalate	<0.50		0.50	ug/L		03/10/26 08:10	03/11/26 08:43	1
Di-n-butyl phthalate	<0.99		0.99	ug/L		03/10/26 08:10	03/11/26 08:43	1
Di-n-octyl phthalate	<0.099		0.099	ug/L		03/10/26 08:10	03/11/26 08:43	1
Endosulfan I (Alpha)	<0.099		0.099	ug/L		03/10/26 08:10	03/11/26 08:43	1
Endosulfan II (Beta)	<0.099		0.099	ug/L		03/10/26 08:10	03/11/26 08:43	1
Endosulfan sulfate	<0.099		0.099	ug/L		03/10/26 08:10	03/11/26 08:43	1
Endrin	<0.0099		0.0099	ug/L		03/10/26 08:10	03/11/26 08:43	1
Endrin aldehyde	<0.099		0.099	ug/L		03/10/26 08:10	03/11/26 08:43	1
EPTC	<0.099		0.099	ug/L		03/10/26 08:10	03/11/26 08:43	1

QC Sample Results

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

Job ID: 380-201560-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MB 380-212010/21-A
Matrix: Water
Analysis Batch: 212339

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 212010

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Fluoranthene	<0.099		0.099	ug/L		03/10/26 08:10	03/11/26 08:43	1
Fluorene	<0.050		0.050	ug/L		03/10/26 08:10	03/11/26 08:43	1
gamma-Chlordane	<0.050		0.050	ug/L		03/10/26 08:10	03/11/26 08:43	1
Heptachlor	<0.0099		0.0099	ug/L		03/10/26 08:10	03/11/26 08:43	1
Heptachlor epoxide (isomer B)	<0.0099		0.0099	ug/L		03/10/26 08:10	03/11/26 08:43	1
Hexachlorobenzene	<0.050		0.050	ug/L		03/10/26 08:10	03/11/26 08:43	1
Hexachlorocyclopentadiene	<0.050		0.050	ug/L		03/10/26 08:10	03/11/26 08:43	1
Indeno[1,2,3-cd]pyrene	<0.050		0.050	ug/L		03/10/26 08:10	03/11/26 08:43	1
Isophorone	<0.099		0.099	ug/L		03/10/26 08:10	03/11/26 08:43	1
Lindane	<0.0099		0.0099	ug/L		03/10/26 08:10	03/11/26 08:43	1
Malathion	<0.099		0.099	ug/L		03/10/26 08:10	03/11/26 08:43	1
Methoxychlor	<0.050		0.050	ug/L		03/10/26 08:10	03/11/26 08:43	1
Metolachlor	<0.050		0.050	ug/L		03/10/26 08:10	03/11/26 08:43	1
Molinate	<0.099		0.099	ug/L		03/10/26 08:10	03/11/26 08:43	1
Naphthalene	<0.099	^3+	0.099	ug/L		03/10/26 08:10	03/11/26 08:43	1
Parathion	<0.099		0.099	ug/L		03/10/26 08:10	03/11/26 08:43	1
Pendimethalin (Penoxaline)	<0.099		0.099	ug/L		03/10/26 08:10	03/11/26 08:43	1
Phenanthrene	<0.040		0.040	ug/L		03/10/26 08:10	03/11/26 08:43	1
Propachlor	<0.050		0.050	ug/L		03/10/26 08:10	03/11/26 08:43	1
Pyrene	<0.050		0.050	ug/L		03/10/26 08:10	03/11/26 08:43	1
Simazine	<0.050		0.050	ug/L		03/10/26 08:10	03/11/26 08:43	1
Terbacil	<0.099		0.099	ug/L		03/10/26 08:10	03/11/26 08:43	1
Terbutylazine	<0.099		0.099	ug/L		03/10/26 08:10	03/11/26 08:43	1
Thiobencarb	<0.099		0.099	ug/L		03/10/26 08:10	03/11/26 08:43	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		03/10/26 08:10	03/11/26 08:43	1
trans-Nonachlor	<0.050		0.050	ug/L		03/10/26 08:10	03/11/26 08:43	1
Trifluralin	<0.099		0.099	ug/L		03/10/26 08:10	03/11/26 08:43	1

Tentatively Identified Compound	MB	MB	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
	Est. Result	Qualifier							
Undecane	4.54	T J N	ug/L		3.17	1120-21-4	03/10/26 08:10	03/11/26 08:43	1
Plumbane, diethyldimethyl-	0.718	T J N	ug/L		3.30	1762-27-2	03/10/26 08:10	03/11/26 08:43	1
Cyclohexasiloxane, dodecamethyl-	0.794	T J N	ug/L		3.92	540-97-6	03/10/26 08:10	03/11/26 08:43	1
9-Octadecenamamide, (Z)-	0.577	T J N	ug/L		7.94	301-02-0	03/10/26 08:10	03/11/26 08:43	1
13-Docosenamamide, (Z)-	0.915	T J N	ug/L		10.46	112-84-5	03/10/26 08:10	03/11/26 08:43	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Nitro-m-xylene	94		70 - 130	03/10/26 08:10	03/11/26 08:43	1
Perylene-d12	83		70 - 130	03/10/26 08:10	03/11/26 08:43	1
Triphenylphosphate	102		70 - 130	03/10/26 08:10	03/11/26 08:43	1

Lab Sample ID: LCS 380-212010/23-A
Matrix: Water
Analysis Batch: 212339

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 212010

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
1-Methylnaphthalene	1.98	1.93		ug/L		97	70 - 130
2,4'-DDD	1.98	2.15		ug/L		108	70 - 130
2,4'-DDE	1.98	2.31		ug/L		116	70 - 130

Eurofins Pomona

QC Sample Results

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

Job ID: 380-201560-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCS 380-212010/23-A

Matrix: Water

Analysis Batch: 212339

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 212010

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec Limits
	Added	Result	Qualifier				
2,4'-DDT	1.98	2.18		ug/L		110	70 - 130
2,4-Dinitrotoluene	1.98	1.80		ug/L		91	70 - 130
2,6-Dinitrotoluene	1.98	1.80		ug/L		91	70 - 130
2-Methylnaphthalene	1.98	1.93		ug/L		97	70 - 130
4,4'-DDD	1.98	2.29		ug/L		115	70 - 130
4,4'-DDE	1.98	2.04		ug/L		103	70 - 130
4,4'-DDT	1.98	2.19		ug/L		111	70 - 130
Acenaphthene	1.98	1.96		ug/L		99	70 - 130
Acenaphthylene	1.98	1.97		ug/L		100	70 - 130
Acetochlor	1.98	2.19		ug/L		110	70 - 130
Alachlor	1.98	2.21		ug/L		111	70 - 130
alpha-BHC	1.98	2.07		ug/L		104	70 - 130
alpha-Chlordane	1.98	2.20		ug/L		111	70 - 130
Anthracene	1.98	1.81		ug/L		91	70 - 130
Atrazine	1.98	2.00		ug/L		101	70 - 130
Benz(a)anthracene	1.98	1.91		ug/L		97	70 - 130
Benzo[a]pyrene	1.98	2.02		ug/L		102	70 - 130
Benzo[b]fluoranthene	1.98	2.13		ug/L		107	70 - 130
Benzo[g,h,i]perylene	1.98	1.94		ug/L		98	70 - 130
Benzo[k]fluoranthene	1.98	2.06		ug/L		104	70 - 130
beta-BHC	1.98	2.00		ug/L		101	70 - 130
Bis(2-ethylhexyl) phthalate	1.98	2.24		ug/L		113	70 - 130
Bromacil	1.98	1.75		ug/L		88	70 - 130
Butachlor	1.98	2.26		ug/L		114	70 - 130
Butylbenzylphthalate	1.98	2.09		ug/L		105	70 - 130
Chlorobenzilate	1.98	2.18		ug/L		110	70 - 130
Chloroneb	1.98	2.04		ug/L		103	70 - 130
Chlorothalonil (Draconil, Bravo)	1.98	1.98		ug/L		100	70 - 130
Chlorpyrifos	1.98	2.14		ug/L		108	70 - 130
Chrysene	1.98	1.98		ug/L		100	70 - 130
delta-BHC	1.98	2.10		ug/L		106	70 - 130
Di(2-ethylhexyl)adipate	1.98	2.13		ug/L		107	70 - 130
Dibenz(a,h)anthracene	1.98	1.87		ug/L		94	70 - 130
Diclorvos (DDVP)	1.98	2.02		ug/L		102	70 - 130
Dieldrin	1.98	2.28		ug/L		115	70 - 130
Diethylphthalate	1.98	2.10		ug/L		106	70 - 130
Dimethylphthalate	1.98	1.94		ug/L		98	70 - 130
Di-n-butyl phthalate	3.97	4.56		ug/L		115	70 - 130
Di-n-octyl phthalate	1.98	2.01		ug/L		101	70 - 130
Endosulfan I (Alpha)	1.98	1.97		ug/L		99	70 - 130
Endosulfan II (Beta)	1.98	1.90		ug/L		96	70 - 130
Endosulfan sulfate	1.98	2.39		ug/L		120	70 - 130
Endrin	1.98	2.32		ug/L		117	70 - 130
Endrin aldehyde	1.98	1.91		ug/L		96	60 - 130
EPTC	1.98	2.06		ug/L		104	70 - 130
Fluoranthene	1.98	2.01		ug/L		101	70 - 130
Fluorene	1.98	1.90		ug/L		96	70 - 130
gamma-Chlordane	1.98	2.22		ug/L		112	70 - 130
Heptachlor	1.98	2.14		ug/L		108	70 - 130

Eurofins Pomona

QC Sample Results

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

Job ID: 380-201560-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCS 380-212010/23-A

Matrix: Water

Analysis Batch: 212339

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 212010

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Heptachlor epoxide (isomer B)	1.98	1.97		ug/L		99	70 - 130
Hexachlorobenzene	1.98	1.94		ug/L		98	70 - 130
Hexachlorocyclopentadiene	1.98	2.12		ug/L		107	70 - 130
Indeno[1,2,3-cd]pyrene	1.98	1.88		ug/L		95	70 - 130
Isophorone	1.98	1.85		ug/L		93	70 - 130
Lindane	1.98	2.07		ug/L		104	70 - 130
Malathion	1.98	2.33		ug/L		118	70 - 130
Methoxychlor	1.98	2.12		ug/L		107	70 - 130
Metolachlor	1.98	2.14		ug/L		108	70 - 130
Molinate	1.98	2.05		ug/L		103	70 - 130
Naphthalene	1.98	2.00		ug/L		101	70 - 130
Parathion	1.98	2.14		ug/L		108	70 - 130
Pendimethalin (Penoxaline)	1.98	2.17		ug/L		110	70 - 130
Phenanthrene	1.98	1.99		ug/L		100	70 - 130
Propachlor	1.98	2.07		ug/L		105	70 - 130
Pyrene	1.98	1.98		ug/L		100	70 - 130
Simazine	1.98	1.88		ug/L		95	70 - 130
Terbacil	1.98	1.85		ug/L		93	70 - 130
Terbutylazine	1.98	2.13		ug/L		107	70 - 130
Thiobencarb	1.98	2.14		ug/L		108	70 - 130
trans-Nonachlor	1.98	2.17		ug/L		110	70 - 130
Trifluralin	1.98	1.97		ug/L		99	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	96		70 - 130
Perylene-d12	100		70 - 130
Triphenylphosphate	109		70 - 130

Lab Sample ID: LCSD 380-212010/24-A

Matrix: Water

Analysis Batch: 212339

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 212010

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec Limits	RPD	
		Result	Qualifier					RPD	Limit
1-Methylnaphthalene	1.99	2.00		ug/L		101	70 - 130	3	20
2,4'-DDD	1.99	2.03		ug/L		102	70 - 130	6	20
2,4'-DDE	1.99	2.27		ug/L		114	70 - 130	1	20
2,4'-DDT	1.99	2.03		ug/L		102	70 - 130	7	20
2,4-Dinitrotoluene	1.99	1.98		ug/L		100	70 - 130	9	20
2,6-Dinitrotoluene	1.99	1.95		ug/L		98	70 - 130	8	20
2-Methylnaphthalene	1.99	2.01		ug/L		101	70 - 130	4	20
4,4'-DDD	1.99	2.19		ug/L		110	70 - 130	5	20
4,4'-DDE	1.99	2.16		ug/L		109	70 - 130	6	20
4,4'-DDT	1.99	2.08		ug/L		105	70 - 130	5	20
Acenaphthene	1.99	2.04		ug/L		103	70 - 130	4	20
Acenaphthylene	1.99	2.11		ug/L		106	70 - 130	7	20
Acetochlor	1.99	2.13		ug/L		107	70 - 130	2	20
Alachlor	1.99	2.10		ug/L		106	70 - 130	5	20
alpha-BHC	1.99	1.99		ug/L		100	70 - 130	4	20

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QC Sample Results

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

Job ID: 380-201560-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCSD 380-212010/24-A

Matrix: Water

Analysis Batch: 212339

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 212010

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	RPD
	Added	Result	Qualifier				Limits		Limit
alpha-Chlordane	1.99	2.09		ug/L		105	70 - 130	5	20
Anthracene	1.99	1.81		ug/L		91	70 - 130	0	20
Atrazine	1.99	2.27		ug/L		114	70 - 130	12	20
Benz(a)anthracene	1.99	1.92		ug/L		97	70 - 130	0	20
Benzo[a]pyrene	1.99	2.36		ug/L		119	70 - 130	16	20
Benzo[b]fluoranthene	1.99	2.37		ug/L		119	70 - 130	11	20
Benzo[g,h,i]perylene	1.99	2.42	*1	ug/L		122	70 - 130	22	20
Benzo[k]fluoranthene	1.99	2.33		ug/L		117	70 - 130	12	20
beta-BHC	1.99	2.05		ug/L		103	70 - 130	3	20
Bis(2-ethylhexyl) phthalate	1.99	2.40		ug/L		121	70 - 130	7	20
Bromacil	1.99	1.91		ug/L		96	70 - 130	9	20
Butachlor	1.99	2.30		ug/L		116	70 - 130	2	20
Butylbenzylphthalate	1.99	2.25		ug/L		113	70 - 130	7	20
Chlorobenzilate	1.99	2.30		ug/L		116	70 - 130	5	20
Chloroneb	1.99	2.14		ug/L		108	70 - 130	5	20
Chlorothalonil (Draconil, Bravo)	1.99	2.18		ug/L		110	70 - 130	9	20
Chlorpyrifos	1.99	2.26		ug/L		114	70 - 130	5	20
Chrysene	1.99	2.06		ug/L		104	70 - 130	4	20
delta-BHC	1.99	1.98		ug/L		100	70 - 130	6	20
Di(2-ethylhexyl)adipate	1.99	2.14		ug/L		108	70 - 130	1	20
Dibenz(a,h)anthracene	1.99	2.28		ug/L		115	70 - 130	19	20
Diclorvos (DDVP)	1.99	2.14		ug/L		108	70 - 130	6	20
Dieldrin	1.99	2.19		ug/L		110	70 - 130	4	20
Diethylphthalate	1.99	2.17		ug/L		109	70 - 130	3	20
Dimethylphthalate	1.99	2.02		ug/L		102	70 - 130	4	20
Di-n-butyl phthalate	3.97	4.76		ug/L		120	70 - 130	4	20
Di-n-octyl phthalate	1.99	2.16		ug/L		109	70 - 130	7	20
Endosulfan I (Alpha)	1.99	1.95		ug/L		98	70 - 130	1	20
Endosulfan II (Beta)	1.99	2.04		ug/L		103	70 - 130	7	20
Endosulfan sulfate	1.99	2.31		ug/L		116	70 - 130	3	20
Endrin	1.99	2.28		ug/L		115	70 - 130	2	20
Endrin aldehyde	1.99	2.13		ug/L		107	60 - 130	11	20
EPTC	1.99	2.10		ug/L		106	70 - 130	2	20
Fluoranthene	1.99	2.09		ug/L		105	70 - 130	4	20
Fluorene	1.99	1.95		ug/L		98	70 - 130	3	20
gamma-Chlordane	1.99	2.13		ug/L		107	70 - 130	4	20
Heptachlor	1.99	2.21		ug/L		111	70 - 130	3	20
Heptachlor epoxide (isomer B)	1.99	2.01		ug/L		101	70 - 130	2	20
Hexachlorobenzene	1.99	2.02		ug/L		102	70 - 130	4	20
Hexachlorocyclopentadiene	1.99	2.26		ug/L		114	70 - 130	6	20
Indeno[1,2,3-cd]pyrene	1.99	2.28		ug/L		115	70 - 130	19	20
Isophorone	1.99	1.93		ug/L		97	70 - 130	4	20
Lindane	1.99	2.19		ug/L		110	70 - 130	6	20
Malathion	1.99	2.30		ug/L		116	70 - 130	1	20
Methoxychlor	1.99	2.32		ug/L		117	70 - 130	9	20
Metolachlor	1.99	2.12		ug/L		107	70 - 130	1	20
Molinate	1.99	2.11		ug/L		106	70 - 130	3	20
Naphthalene	1.99	2.05		ug/L		103	70 - 130	2	20
Parathion	1.99	2.30		ug/L		116	70 - 130	7	20

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QC Sample Results

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

Job ID: 380-201560-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCSD 380-212010/24-A

Matrix: Water

Analysis Batch: 212339

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 212010

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	RPD
		Result	Qualifier				Limits		Limit
Pendimethalin (Penoxaline)	1.99	2.28		ug/L		115	70 - 130	5	20
Phenanthrene	1.99	2.00		ug/L		101	70 - 130	1	20
Propachlor	1.99	2.15		ug/L		108	70 - 130	4	20
Pyrene	1.99	2.04		ug/L		103	70 - 130	3	20
Simazine	1.99	2.07		ug/L		104	70 - 130	9	20
Terbacil	1.99	2.06		ug/L		104	70 - 130	11	20
Terbutylazine	1.99	2.36		ug/L		119	70 - 130	10	20
Thiobencarb	1.99	2.20		ug/L		111	70 - 130	3	20
trans-Nonachlor	1.99	1.97		ug/L		99	70 - 130	10	20
Trifluralin	1.99	2.10		ug/L		106	70 - 130	6	20

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	96		70 - 130
Perylene-d12	110		70 - 130
Triphenylphosphate	111		70 - 130

Lab Sample ID: MRL 380-212010/22-A

Matrix: Water

Analysis Batch: 212339

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 212010

Analyte	Spike Added	MRL	MRL	Unit	D	%Rec	%Rec
		Result	Qualifier				Limits
1-Methylnaphthalene	0.0995	0.0939	J	ug/L		94	50 - 150
2,4'-DDD	0.0995	0.0885	J	ug/L		89	50 - 150
2,4'-DDE	0.0995	0.0875	J	ug/L		88	50 - 150
2,4'-DDT	0.0995	0.108		ug/L		108	50 - 150
2,4-Dinitrotoluene	0.0995	0.0905	J	ug/L		91	50 - 150
2,6-Dinitrotoluene	0.0995	0.0968	J	ug/L		97	50 - 150
2-Methylnaphthalene	0.0995	0.0876	J	ug/L		88	50 - 150
4,4'-DDD	0.0995	0.0900	J	ug/L		90	50 - 150
4,4'-DDE	0.0995	0.0884	J	ug/L		89	50 - 150
4,4'-DDT	0.0995	0.114		ug/L		114	50 - 150
Acenaphthene	0.0995	0.0819	J	ug/L		82	50 - 150
Acenaphthylene	0.0995	0.0875	J	ug/L		88	50 - 150
Acetochlor	0.0995	0.105		ug/L		106	50 - 150
Alachlor	0.0497	0.0513		ug/L		103	50 - 150
alpha-BHC	0.0995	0.0947	J	ug/L		95	50 - 150
alpha-Chlordane	0.0249	<0.029		ug/L		107	50 - 150
Anthracene	0.0199	0.0192	J	ug/L		96	50 - 150
Atrazine	0.0497	<0.048		ug/L		93	50 - 150
Benz(a)anthracene	0.0497	0.0411	J	ug/L		83	50 - 150
Benzo[a]pyrene	0.0199	0.0219		ug/L		110	50 - 150
Benzo[b]fluoranthene	0.0199	0.0232		ug/L		117	50 - 150
Benzo[g,h,i]perylene	0.0497	0.0341	J	ug/L		69	50 - 150
Benzo[k]fluoranthene	0.0199	0.0232		ug/L		117	50 - 150
beta-BHC	0.0995	0.101		ug/L		101	50 - 150
Bis(2-ethylhexyl) phthalate	0.597	0.598	J	ug/L		100	50 - 150
Bromacil	0.0995	0.102		ug/L		102	50 - 150
Butachlor	0.0497	0.0511		ug/L		103	50 - 150

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QC Sample Results

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

Job ID: 380-201560-1
 SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MRL 380-212010/22-A

Matrix: Water

Analysis Batch: 212339

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 212010

Analyte	Spike	MRL	MRL	Unit	D	%Rec	%Rec Limits
	Added	Result	Qualifier				
Butylbenzylphthalate	0.497	0.472	J	ug/L		95	50 - 150
Chlorobenzilate	0.0995	0.0887	J	ug/L		89	50 - 150
Chloroneb	0.0995	0.0879	J	ug/L		88	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0995	0.0888	J	ug/L		89	50 - 150
Chlorpyrifos	0.0497	0.0490	J	ug/L		98	50 - 150
Chrysene	0.0199	0.0206		ug/L		104	50 - 150
delta-BHC	0.0995	0.0994		ug/L		100	50 - 150
Di(2-ethylhexyl)adipate	0.597	0.562	J	ug/L		94	50 - 150
Dibenz(a,h)anthracene	0.0497	0.0398	J	ug/L		80	50 - 150
Diclorvos (DDVP)	0.0497	0.0459	J	ug/L		92	50 - 150
Dieldrin	0.00995	0.0117		ug/L		118	50 - 150
Diethylphthalate	0.497	0.496	J	ug/L		100	50 - 150
Dimethylphthalate	0.497	0.465	J	ug/L		93	50 - 150
Di-n-butyl phthalate	0.497	0.617	J	ug/L		124	49 - 243
Di-n-octyl phthalate	0.0995	0.0894	J	ug/L		90	50 - 150
Endosulfan I (Alpha)	0.0995	0.0804	J	ug/L		81	50 - 150
Endosulfan II (Beta)	0.0995	0.113		ug/L		113	50 - 150
Endosulfan sulfate	0.0995	0.0856	J	ug/L		86	50 - 150
Endrin	0.00995	0.0106		ug/L		106	50 - 150
Endrin aldehyde	0.0995	0.0912	J	ug/L		92	50 - 150
EPTC	0.0995	0.0951	J	ug/L		96	50 - 150
Fluoranthene	0.0995	0.0941	J	ug/L		95	50 - 150
Fluorene	0.0497	<0.050		ug/L		92	50 - 150
gamma-Chlordane	0.0249	0.0239	J	ug/L		96	50 - 150
Heptachlor	0.00995	0.00969	J	ug/L		97	50 - 150
Heptachlor epoxide (isomer B)	0.00995	0.0107		ug/L		108	50 - 150
Hexachlorobenzene	0.0497	0.0449	J	ug/L		90	50 - 150
Hexachlorocyclopentadiene	0.0497	0.0528		ug/L		106	50 - 150
Indeno[1,2,3-cd]pyrene	0.0497	0.0393	J	ug/L		79	50 - 150
Isophorone	0.0995	0.106		ug/L		106	50 - 150
Lindane	0.00995	0.0107		ug/L		108	50 - 150
Malathion	0.0995	0.0851	J	ug/L		86	50 - 150
Methoxychlor	0.0497	0.0482	J	ug/L		97	50 - 150
Metolachlor	0.0497	0.0504		ug/L		101	50 - 150
Molinate	0.0995	0.0909	J	ug/L		91	50 - 150
Naphthalene	0.0995	0.175	^3+	ug/L		175	50 - 150
Parathion	0.0995	0.0885	J	ug/L		89	50 - 150
Pendimethalin (Penoxaline)	0.0995	0.0976	J	ug/L		98	50 - 150
Phenanthrene	0.0398	0.0350	J	ug/L		88	50 - 150
Propachlor	0.0497	0.0498	J	ug/L		100	50 - 150
Pyrene	0.0497	0.0468	J	ug/L		94	50 - 150
Simazine	0.0497	0.0409	J	ug/L		82	50 - 150
Terbacil	0.0995	0.0930	J	ug/L		93	50 - 150
Terbutylazine	0.0995	0.0901	J	ug/L		91	50 - 150
Thiobencarb	0.0995	0.0924	J	ug/L		93	50 - 150
trans-Nonachlor	0.0249	<0.026		ug/L		96	50 - 150
Trifluralin	0.0995	0.0985	J	ug/L		99	50 - 150

QC Sample Results

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

Job ID: 380-201560-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MRL 380-212010/22-A
Matrix: Water
Analysis Batch: 212339

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 212010

Surrogate	MRL %Recovery	MRL Qualifier	Limits
2-Nitro-m-xylene	95		70 - 130
Perylene-d12	95		70 - 130
Triphenylphosphate	106		70 - 130

Lab Sample ID: 380-201914-I-1-A MS
Matrix: Water
Analysis Batch: 212339

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 212010

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.097		1.94	1.96		ug/L		101	70 - 130
2,4'-DDD	<0.097		1.94	2.23		ug/L		115	70 - 130
2,4'-DDE	<0.097		1.94	2.35		ug/L		122	70 - 130
2,4'-DDT	<0.097		1.94	2.25		ug/L		116	70 - 130
2,4-Dinitrotoluene	<0.097		1.94	1.97		ug/L		102	70 - 130
2,6-Dinitrotoluene	<0.097		1.94	1.95		ug/L		101	70 - 130
2-Methylnaphthalene	<0.097		1.94	1.94		ug/L		100	70 - 130
4,4'-DDD	<0.097		1.94	2.38		ug/L		123	70 - 130
4,4'-DDE	<0.097		1.94	2.09		ug/L		108	70 - 130
4,4'-DDT	<0.097		1.94	2.28		ug/L		118	70 - 130
Acenaphthene	<0.097		1.94	1.97		ug/L		102	70 - 130
Acenaphthylene	<0.097		1.94	2.02		ug/L		105	70 - 130
Acetochlor	<0.097		1.94	2.26		ug/L		117	70 - 130
Alachlor	<0.049		1.94	2.27		ug/L		117	70 - 130
alpha-BHC	<0.097		1.94	2.04		ug/L		105	70 - 130
alpha-Chlordane	<0.049		1.94	2.32		ug/L		120	70 - 130
Anthracene	<0.019		1.94	1.84		ug/L		95	70 - 130
Atrazine	<0.049		1.94	2.11		ug/L		109	70 - 130
Benz(a)anthracene	<0.049		1.94	1.97		ug/L		102	70 - 130
Benzo[a]pyrene	<0.019		1.94	1.86		ug/L		96	70 - 130
Benzo[b]fluoranthene	<0.019		1.94	2.00		ug/L		103	70 - 130
Benzo[g,h,i]perylene	<0.049	*1	1.94	2.12		ug/L		110	70 - 130
Benzo[k]fluoranthene	<0.019		1.94	1.99		ug/L		103	70 - 130
beta-BHC	<0.097		1.94	2.01		ug/L		104	70 - 130
Bis(2-ethylhexyl) phthalate	<0.58		1.94	2.37		ug/L		122	70 - 130
Bromacil	<0.097		1.94	1.95		ug/L		101	70 - 130
Butachlor	<0.049		1.94	2.34		ug/L		121	70 - 130
Butylbenzylphthalate	<0.49		1.94	2.19		ug/L		113	70 - 130
Chlorobenzilate	<0.097		1.94	2.32		ug/L		120	70 - 130
Chloroneb	<0.097		1.94	2.07		ug/L		107	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.097		1.94	2.12		ug/L		110	70 - 130
Chlorpyrifos	<0.049		1.94	2.21		ug/L		114	70 - 130
Chrysene	<0.019		1.94	2.02		ug/L		105	70 - 130
delta-BHC	<0.097		1.94	2.07		ug/L		107	70 - 130
Di(2-ethylhexyl)adipate	<0.58		1.94	2.18		ug/L		113	70 - 130
Dibenz(a,h)anthracene	<0.049		1.94	2.05		ug/L		106	70 - 130
Diclorvos (DDVP)	<0.049		1.94	2.10		ug/L		108	70 - 130
Dieldrin	<0.0097		1.94	2.35		ug/L		122	70 - 130
Diethylphthalate	<0.49		1.94	2.19		ug/L		113	70 - 130

QC Sample Results

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

Job ID: 380-201560-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: 380-201914-I-1-A MS

Client Sample ID: Matrix Spike

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 212339

Prep Batch: 212010

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec
	Result	Qualifier	Added	Result	Qualifier				
Dimethylphthalate	<0.49		1.94	2.01		ug/L		104	70 - 130
Di-n-butyl phthalate	<0.97		3.87	4.72		ug/L		117	70 - 130
Di-n-octyl phthalate	<0.097		1.94	2.15		ug/L		111	70 - 130
Endosulfan I (Alpha)	<0.097		1.94	2.13		ug/L		110	70 - 130
Endosulfan II (Beta)	<0.097		1.94	1.97		ug/L		102	70 - 130
Endosulfan sulfate	<0.097		1.94	2.46		ug/L		127	70 - 130
Endrin	<0.0097		1.94	2.41		ug/L		125	70 - 130
Endrin aldehyde	<0.097		1.94	2.01		ug/L		104	60 - 130
EPTC	<0.097		1.94	2.11		ug/L		109	70 - 130
Fluoranthene	<0.097		1.94	2.07		ug/L		107	70 - 130
Fluorene	<0.049		1.94	1.95		ug/L		101	70 - 130
gamma-Chlordane	<0.049		1.94	2.34		ug/L		121	70 - 130
Heptachlor	<0.0097		1.94	2.30		ug/L		119	70 - 130
Heptachlor epoxide (isomer B)	<0.0097		1.94	2.09		ug/L		108	70 - 130
Hexachlorobenzene	<0.049		1.94	1.93		ug/L		100	70 - 130
Hexachlorocyclopentadiene	<0.049		1.94	2.21		ug/L		114	70 - 130
Indeno[1,2,3-cd]pyrene	<0.049		1.94	2.04		ug/L		105	70 - 130
Isophorone	<0.097		1.94	1.92		ug/L		99	70 - 130
Lindane	<0.0097		1.94	2.13		ug/L		110	70 - 130
Malathion	<0.097		1.94	2.45		ug/L		126	70 - 130
Methoxychlor	<0.049		1.94	2.28		ug/L		118	70 - 130
Metolachlor	<0.049		1.94	2.26		ug/L		117	70 - 130
Molinate	<0.097		1.94	2.08		ug/L		107	70 - 130
Naphthalene	<0.097	^3+	1.94	2.00		ug/L		103	70 - 130
Parathion	<0.097		1.94	2.30		ug/L		119	70 - 130
Pendimethalin (Penoxaline)	<0.097		1.94	2.31		ug/L		119	70 - 130
Phenanthrene	<0.039		1.94	1.99		ug/L		103	70 - 130
Propachlor	<0.049		1.94	2.14		ug/L		111	70 - 130
Pyrene	<0.049		1.94	2.06		ug/L		106	70 - 130
Simazine	<0.049		1.94	1.99		ug/L		103	70 - 130
Terbacil	<0.097		1.94	1.98		ug/L		103	70 - 130
Terbutylazine	<0.097		1.94	2.21		ug/L		114	70 - 130
Thiobencarb	<0.097		1.94	2.24		ug/L		116	70 - 130
trans-Nonachlor	<0.049		1.94	2.28		ug/L		118	70 - 130
Trifluralin	<0.097		1.94	2.06		ug/L		107	70 - 130

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	97		70 - 130
Perylene-d12	94		70 - 130
Triphenylphosphate	112		70 - 130

Lab Sample ID: 380-201996-T-1-A DU

Client Sample ID: Duplicate

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 212339

Prep Batch: 212010

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

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QC Sample Results

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

Job ID: 380-201560-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: 380-201996-T-1-A DU

Client Sample ID: Duplicate

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 212339

Prep Batch: 212010

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

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QC Sample Results

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

Job ID: 380-201560-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: 380-201996-T-1-A DU
Matrix: Water
Analysis Batch: 212339

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 212010

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

Surrogate	DU	DU	Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	97		70 - 130
Perylene-d12	95		70 - 130
Triphenylphosphate	105		70 - 130

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

Lab Sample ID: MB 570-706080/1-A
Matrix: Water
Analysis Batch: 712490

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 706080

Tentatively Identified Compound	MB	MB	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
	Est. Result	Qualifier							
Tentatively Identified Compound	None		ug/L			N/A	03/08/26 08:58	03/20/26 20:34	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4,6-Tribromophenol (Surr)	79		33 - 139	03/08/26 08:58	03/20/26 20:34	1
2-Fluorobiphenyl (Surr)	91		33 - 126	03/08/26 08:58	03/20/26 20:34	1
2-Fluorophenol (Surr)	57		12 - 120	03/08/26 08:58	03/20/26 20:34	1
Nitrobenzene-d5 (Surr)	87		36 - 120	03/08/26 08:58	03/20/26 20:34	1
Phenol-d6 (Surr)	33		10 - 120	03/08/26 08:58	03/20/26 20:34	1
p-Terphenyl-d14 (Surr)	91		47 - 131	03/08/26 08:58	03/20/26 20:34	1

QC Sample Results

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

Job ID: 380-201560-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MB 570-706080/1-A
Matrix: Water
Analysis Batch: 706228

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 706080

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1-Methylnaphthalene	<0.20		0.20	ug/L		03/08/26 08:58	03/09/26 12:53	1
2-Methylnaphthalene	<0.20		0.20	ug/L		03/08/26 08:58	03/09/26 12:53	1
Acenaphthene	<0.20		0.20	ug/L		03/08/26 08:58	03/09/26 12:53	1
Acenaphthylene	<0.20		0.20	ug/L		03/08/26 08:58	03/09/26 12:53	1
Anthracene	<0.20		0.20	ug/L		03/08/26 08:58	03/09/26 12:53	1
Benzo[a]anthracene	<0.20		0.20	ug/L		03/08/26 08:58	03/09/26 12:53	1
Benzo[a]pyrene	<0.20		0.20	ug/L		03/08/26 08:58	03/09/26 12:53	1
Benzo[b]fluoranthene	<0.20		0.20	ug/L		03/08/26 08:58	03/09/26 12:53	1
Benzo[g,h,i]perylene	<0.20		0.20	ug/L		03/08/26 08:58	03/09/26 12:53	1
Benzo[k]fluoranthene	<0.20		0.20	ug/L		03/08/26 08:58	03/09/26 12:53	1
Chrysene	<0.20		0.20	ug/L		03/08/26 08:58	03/09/26 12:53	1
Dibenz(a,h)anthracene	<0.20		0.20	ug/L		03/08/26 08:58	03/09/26 12:53	1
Fluoranthene	<0.20		0.20	ug/L		03/08/26 08:58	03/09/26 12:53	1
Fluorene	<0.20		0.20	ug/L		03/08/26 08:58	03/09/26 12:53	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20	ug/L		03/08/26 08:58	03/09/26 12:53	1
Naphthalene	<0.20		0.20	ug/L		03/08/26 08:58	03/09/26 12:53	1
Phenanthrene	<0.20		0.20	ug/L		03/08/26 08:58	03/09/26 12:53	1
Pyrene	<0.20		0.20	ug/L		03/08/26 08:58	03/09/26 12:53	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4,6-Tribromophenol (Surr)	86		28 - 127	03/08/26 08:58	03/09/26 12:53	1
2-Fluorobiphenyl (Surr)	87		31 - 120	03/08/26 08:58	03/09/26 12:53	1
2-Fluorophenol (Surr)	50		17 - 120	03/08/26 08:58	03/09/26 12:53	1
Nitrobenzene-d5 (Surr)	85		27 - 120	03/08/26 08:58	03/09/26 12:53	1
Phenol-d6 (Surr)	32		10 - 120	03/08/26 08:58	03/09/26 12:53	1
p-Terphenyl-d14 (Surr)	82		45 - 120	03/08/26 08:58	03/09/26 12:53	1

Lab Sample ID: LCS 570-706080/2-A
Matrix: Water
Analysis Batch: 706228

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 706080

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
1-Methylnaphthalene	20.0	15.8		ug/L		79	47 - 120
2-Methylnaphthalene	20.0	15.1		ug/L		76	43 - 120
Acenaphthene	20.0	17.2		ug/L		86	60 - 132
Acenaphthylene	20.0	17.2		ug/L		86	54 - 126
Anthracene	20.0	17.0		ug/L		85	43 - 120
Benzo[a]anthracene	20.0	18.2		ug/L		91	42 - 133
Benzo[a]pyrene	20.0	19.6		ug/L		98	32 - 148
Benzo[b]fluoranthene	20.0	18.9		ug/L		95	42 - 140
Benzo[g,h,i]perylene	20.0	17.7		ug/L		88	1 - 195
Benzo[k]fluoranthene	20.0	18.4		ug/L		92	25 - 146
Chrysene	20.0	18.1		ug/L		90	44 - 140
Dibenz(a,h)anthracene	20.0	18.3		ug/L		92	1 - 200
Fluoranthene	20.0	17.5		ug/L		88	43 - 121
Fluorene	20.0	18.7		ug/L		93	70 - 120
Indeno[1,2,3-cd]pyrene	20.0	18.7		ug/L		93	1 - 151
Naphthalene	20.0	14.2		ug/L		71	36 - 120

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QC Sample Results

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

Job ID: 380-201560-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCS 570-706080/2-A

Matrix: Water

Analysis Batch: 706228

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 706080

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phenanthrene	20.0	17.7		ug/L		88	65 - 120
Pyrene	20.0	18.8		ug/L		94	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	83		28 - 127
2-Fluorobiphenyl (Surr)	87		31 - 120
2-Fluorophenol (Surr)	60		17 - 120
Nitrobenzene-d5 (Surr)	73		27 - 120
Phenol-d6 (Surr)	39		10 - 120
p-Terphenyl-d14 (Surr)	89		45 - 120

Lab Sample ID: LCSD 570-706080/3-A

Matrix: Water

Analysis Batch: 706228

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 706080

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	20.0	13.9		ug/L		70	47 - 120	13	20
2-Methylnaphthalene	20.0	13.3		ug/L		67	43 - 120	13	20
Acenaphthene	20.0	15.1		ug/L		75	60 - 132	13	29
Acenaphthylene	20.0	15.5		ug/L		77	54 - 126	11	45
Anthracene	20.0	15.3		ug/L		76	43 - 120	11	40
Benzo[a]anthracene	20.0	16.1		ug/L		80	42 - 133	13	32
Benzo[a]pyrene	20.0	17.3		ug/L		87	32 - 148	12	43
Benzo[b]fluoranthene	20.0	16.9		ug/L		84	42 - 140	12	43
Benzo[g,h,i]perylene	20.0	16.0		ug/L		80	1 - 195	10	61
Benzo[k]fluoranthene	20.0	16.5		ug/L		83	25 - 146	11	38
Chrysene	20.0	15.9		ug/L		80	44 - 140	13	53
Dibenz(a,h)anthracene	20.0	16.7		ug/L		84	1 - 200	9	75
Fluoranthene	20.0	15.6		ug/L		78	43 - 121	12	40
Fluorene	20.0	16.5		ug/L		83	70 - 120	12	23
Indeno[1,2,3-cd]pyrene	20.0	16.9		ug/L		84	1 - 151	10	60
Naphthalene	20.0	12.8		ug/L		64	36 - 120	11	39
Phenanthrene	20.0	15.6		ug/L		78	65 - 120	12	24
Pyrene	20.0	16.5		ug/L		83	70 - 120	13	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	72		28 - 127
2-Fluorobiphenyl (Surr)	75		31 - 120
2-Fluorophenol (Surr)	53		17 - 120
Nitrobenzene-d5 (Surr)	65		27 - 120
Phenol-d6 (Surr)	35		10 - 120
p-Terphenyl-d14 (Surr)	79		45 - 120

QC Sample Results

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

Job ID: 380-201560-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MB 570-709726/6
Matrix: Water
Analysis Batch: 709726

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			03/16/26 11:34	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		38 - 134				03/16/26 11:34	1

Lab Sample ID: LCS 570-709726/3
Matrix: Water
Analysis Batch: 709726

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (C4-C13)	400	376		ug/L		94	78 - 120
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	84		38 - 134				

Lab Sample ID: LCSD 570-709726/4
Matrix: Water
Analysis Batch: 709726

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Gasoline Range Organics (C4-C13)	400	390		ug/L		97	78 - 120	4	10
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	86		38 - 134						

Lab Sample ID: MRL 570-709726/5
Matrix: Water
Analysis Batch: 709726

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		74	50 - 150
Surrogate	MRL %Recovery	MRL Qualifier	Limits				
4-Bromofluorobenzene (Surr)	80		38 - 134				

Lab Sample ID: 380-202475-C-1 MS
Matrix: Water
Analysis Batch: 709726

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	357		ug/L		89	68 - 122
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	90		38 - 134						

QC Sample Results

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

Job ID: 380-201560-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: 380-202475-C-1 MSD
Matrix: Water
Analysis Batch: 709726

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	360		ug/L		90	68 - 122	1	18
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	89		38 - 134								

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

Lab Sample ID: MB 570-704786/1-A
Matrix: Water
Analysis Batch: 706200

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 704786

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<25		25	ug/L		03/05/26 09:25	03/08/26 23:39	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		03/05/26 09:25	03/08/26 23:39	1
C8-C18	<25		25	ug/L		03/05/26 09:25	03/08/26 23:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	103		60 - 130			03/05/26 09:25	03/08/26 23:39	1

Lab Sample ID: LCS 570-704786/2-A
Matrix: Water
Analysis Batch: 706200

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 704786

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
C10-C28	1600	1990		ug/L		124	56 - 127
Surrogate	%Recovery	Qualifier	Limits				
n-Octacosane (Surr)	106		60 - 130				

Lab Sample ID: LCSD 570-704786/3-A
Matrix: Water
Analysis Batch: 706200

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 704786

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28	1600	1460	*1	ug/L		91	56 - 127	31	23
Surrogate	%Recovery	Qualifier	Limits						
n-Octacosane (Surr)	102		60 - 130						

Lab Sample ID: MRL 570-704786/4-A
Matrix: Water
Analysis Batch: 709512

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 704786

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
C10-C28	0.0200	0.0228	J	mg/L		114	50 - 150

QC Sample Results

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

Job ID: 380-201560-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MRL 570-704786/4-A
Matrix: Water
Analysis Batch: 709512

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 704786

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

Lab Sample ID: 380-201163-C-1-A MS
Matrix: Water
Analysis Batch: 709512

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 704786

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				Limits	
C10-C28	<26	*1	1650	1860		ug/L		113	70 - 130	

	<i>MS</i>	<i>MS</i>	
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>n-Octacosane (Surr)</i>	125		60 - 130

Lab Sample ID: 380-201163-C-1-B MSD
Matrix: Water
Analysis Batch: 709512

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 704786

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	Limits	RPD	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit		
C10-C28	<26	*1	1700	1710		ug/L		101	70 - 130	8	20		

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

QC Association Summary

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

Job ID: 380-201560-1
SDG: Weekly: Halawa Shaft Viewing Pool

GC/MS Semi VOA

Prep Batch: 212010

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-201560-1	Halawa Shaft Viewing Pool	Total/NA	Water	525.2	
MB 380-212010/21-A	Method Blank	Total/NA	Water	525.2	
LCS 380-212010/23-A	Lab Control Sample	Total/NA	Water	525.2	
LCSD 380-212010/24-A	Lab Control Sample Dup	Total/NA	Water	525.2	
MRL 380-212010/22-A	Lab Control Sample	Total/NA	Water	525.2	
380-201914-I-1-A MS	Matrix Spike	Total/NA	Water	525.2	
380-201996-T-1-A DU	Duplicate	Total/NA	Water	525.2	

Analysis Batch: 212339

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-201560-1	Halawa Shaft Viewing Pool	Total/NA	Water	525.2	212010
MB 380-212010/21-A	Method Blank	Total/NA	Water	525.2	212010
LCS 380-212010/23-A	Lab Control Sample	Total/NA	Water	525.2	212010
LCSD 380-212010/24-A	Lab Control Sample Dup	Total/NA	Water	525.2	212010
MRL 380-212010/22-A	Lab Control Sample	Total/NA	Water	525.2	212010
380-201914-I-1-A MS	Matrix Spike	Total/NA	Water	525.2	212010
380-201996-T-1-A DU	Duplicate	Total/NA	Water	525.2	212010

Prep Batch: 706080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-201560-1	Halawa Shaft Viewing Pool	Total/NA	Water	625.1	
MB 570-706080/1-A	Method Blank	Total/NA	Water	625.1	
LCS 570-706080/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 570-706080/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	

Analysis Batch: 706228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-201560-1	Halawa Shaft Viewing Pool	Total/NA	Water	625.1 SIM	706080
MB 570-706080/1-A	Method Blank	Total/NA	Water	625.1 SIM	706080
LCS 570-706080/2-A	Lab Control Sample	Total/NA	Water	625.1 SIM	706080
LCSD 570-706080/3-A	Lab Control Sample Dup	Total/NA	Water	625.1 SIM	706080

Analysis Batch: 712490

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-201560-1	Halawa Shaft Viewing Pool	Total/NA	Water	625.1	706080
MB 570-706080/1-A	Method Blank	Total/NA	Water	625.1	706080

GC VOA

Analysis Batch: 709726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-201560-1	Halawa Shaft Viewing Pool	Total/NA	Water	8015B GRO LL	
380-201560-2	TB: Halawa Shaft Viewing Pool	Total/NA	Water	8015B GRO LL	
MB 570-709726/6	Method Blank	Total/NA	Water	8015B GRO LL	
LCS 570-709726/3	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-709726/4	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	
MRL 570-709726/5	Lab Control Sample	Total/NA	Water	8015B GRO LL	
380-202475-C-1 MS	Matrix Spike	Total/NA	Water	8015B GRO LL	
380-202475-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: 380-201560-1
 SDG: Weekly: Halawa Shaft Viewing Pool

GC Semi VOA

Prep Batch: 704786

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-201560-1	Halawa Shaft Viewing Pool	Total/NA	Water	3510C	
MB 570-704786/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-704786/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-704786/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-704786/4-A	Lab Control Sample	Total/NA	Water	3510C	
380-201163-C-1-A MS	Matrix Spike	Total/NA	Water	3510C	
380-201163-C-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

Analysis Batch: 706200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-704786/1-A	Method Blank	Total/NA	Water	8015B	704786
LCS 570-704786/2-A	Lab Control Sample	Total/NA	Water	8015B	704786
LCSD 570-704786/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	704786

Analysis Batch: 709512

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-201560-1	Halawa Shaft Viewing Pool	Total/NA	Water	8015B	704786
MRL 570-704786/4-A	Lab Control Sample	Total/NA	Water	8015B	704786
380-201163-C-1-A MS	Matrix Spike	Total/NA	Water	8015B	704786
380-201163-C-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	8015B	704786

Lab Chronicle

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

Job ID: 380-201560-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: Halawa Shaft Viewing Pool

Lab Sample ID: 380-201560-1

Date Collected: 03/03/26 09:25

Matrix: Water

Date Received: 03/05/26 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			212010	OTM3	EA POM	03/10/26 08:10
Total/NA	Analysis	525.2		1	212339	Q8LA	EA POM	03/11/26 16:27
Total/NA	Prep	625.1			706080	BN8X	EET CAL 4	03/08/26 09:07
Total/NA	Analysis	625.1		1	712490	J7WE	EET CAL 4	03/20/26 20:59
Total/NA	Prep	625.1			706080	BN8X	EET CAL 4	03/08/26 09:07
Total/NA	Analysis	625.1 SIM		1	706228	PQS1	EET CAL 4	03/09/26 14:42
Total/NA	Analysis	8015B GRO LL		1	709726	A9VE	EET CAL 4	03/16/26 19:42
Total/NA	Prep	3510C			704786	TVD6	EET CAL 4	03/05/26 19:47
Total/NA	Analysis	8015B		1	709512	H6FE	EET CAL 4	03/15/26 19:41

Client Sample ID: TB: Halawa Shaft Viewing Pool

Lab Sample ID: 380-201560-2

Date Collected: 03/03/26 09:25

Matrix: Water

Date Received: 03/05/26 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	709726	A9VE	EET CAL 4	03/16/26 18:33

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: 380-201560-1
 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	03-02-27
Arizona	State	AZ0830	11-17-26
California	Los Angeles County Sanitation Districts	9257304	07-31-26
California	SCAQMD LAP	17LA0919	11-30-26

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

Accreditation/Certification Summary

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

Job ID: 380-201560-1
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	03-01-27
Washington	State	C916	10-12-26

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Method Summary

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

Job ID: 380-201560-1
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: 380-201560-1
SDG: Weekly: Halawa Shaft Viewing Pool

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
380-201560-1	Halawa Shaft Viewing Pool	Water	03/03/26 09:25	03/05/26 10:20	Hawaii
380-201560-2	TB: Halawa Shaft Viewing Pool	Water	03/03/26 09:25	03/05/26 10:20	Hawaii

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Chain of Custody Record

Client Information		Sampler: Jason Rakofsky		Lab Pkt: Arada, Rachelle		Carrier Tracking No(s): 380-28005-2757 1	
Client Contact: Mr Kirk Iwamoto		Phone: +1 808 748 5840		E-Mail: Rachelle.Arada@et.eurofins.com		Page: Page 1 of 2	
Company: City & County of Honolulu		PWSID:		Analysis Requested		Job #:	
Address: 630 South Beretania Street Chemistry Lab		Due Date Requested:		Perform MS/MSD (Yes or No)		Preservation Codes:	
City: Honolulu		TAT Requested (days):		Field Filtered Sample (Yes or No)		R - NaTheSO4	
State, Zip: HI, 96843		Compliance Project: Δ Yes Δ No		80168_GRO_LL - (MOD) GRO		RA - NaThioHCl	
Phone: 808-748-5840 (Tel)		PO #: C20525101 exp 05312023		80168_DRO_LL_CS - HNL Ranges: C10-C24/C24-C36/C36-C18		Q - NaZSO3	
Email: kiwamoto@hbws.org		WO #:		625.1_626.1_SIM		QA - NaZSO3/HCl	
Project Name: RED-HILL/HBWS Sites Event Desc: RUSH Weekly Red Hill		Project #: 38001111		633 - All Analytes		Y - Trizma	
Site: Hawaii		SSOW#:		537.1_DW_PREC - 537 1 Full List		I - NH4 Acetate	
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)	
Halawa Shaft Viewing Pool		3-Mar-2026		0925		G	
TB: Halawa Shaft Viewing Pool		3-Mar-2026		1		G	
Matrix (Inorganic, Organic, On-site)		Preservation Code:		R		RA	
Water		Water		2		3	
Water		Water		2		2	
Special Instructions/Note:		Total Number of Containers		380-201560 COC		QR Code	
Other:		Special Instructions/Note:		380-201560 COC		QR Code	
Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Return To Client <input type="checkbox"/>		Archive For <input type="checkbox"/> Months	
Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological <input type="checkbox"/>		Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/QC Requirements:		Method of Shipment: FFD: 6693 0191 538	
Empty Kit Relinquished by:		Date:		Received by: <i>MA</i>		Date/Time: 3/14/20 1100	
Relinquished by:		Company: HBWS		Received by:		Date/Time: 3/15/26 1020	
Relinquished by:		Company:		Received by:		Date/Time:	
Relinquished by:		Company:		Received by:		Date/Time:	
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:		Cooling Temperature(s) °C and Chng. Remarks: 45.1A 3.7.3.4 Gel F10269		Company:	



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

SHIP DATE: 04MAR26
ACTWGT: 53.00 LB
CAD: 258050552/NET4535

BILL RECIPIENT

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

58KJ2/D126/484B

POMONA CA 91768

(626) 386-1100

REF:

DEPT.



THU - 05 MAR 10:30A
PRIORITY OVERNIGHT

1 of 2

TRK# 8893 0191 8247

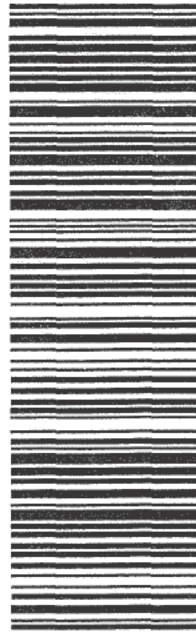
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MASTER

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3.1/3.1 GWA BLUE CE FROZEN
[Signature] 3/15/26 1020

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within strict time limits, see current FedEx Service Guide.

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Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-201560-1
SDG Number: Weekly: Halawa Shaft Viewing Pool

Login Number: 201560

List Number: 1

Creator: Ngo, Theodore

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: 380-201560-1
SDG Number: Weekly: Halawa Shaft Viewing Pool

Login Number: 201560

List Number: 2

Creator: Khana, Piyush

List Source: Eurofins Calscience

List Creation: 03/05/26 06:35 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
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	

