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ANALYTICAL REPORT

PREPARED FOR

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JOB DESCRIPTION

RED-HILL
Weekly: Halawa Shaft Viewing Pool

JOB NUMBER

380-205880-1

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: 380-205880-1
SDG: Weekly: Halawa Shaft Viewing Pool

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA TICs

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

GC Semi VOA

Qualifier	Qualifier Description
^3+	Reporting Limit Check Standard is outside acceptance limits, high biased

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

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

Job ID: 380-205880-1

Job ID: 380-205880-1

Eurofins Pomona

Job Narrative 380-205880-1

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 4/2/2026 9:57 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.2°C and 4.6°C.

GC/MS Semi VOA

Method 625.1: The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch. Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 570-728463.

Method 625.1 SIM: The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch. Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 570-728463.

Method 625.1 SIM and 625.1: The following sample was re-prepared outside of preparation holding time due to PM request for confirmation of TIC hits in initial run for Halawa Shaft Viewing Pool (380-205880-1). The data of the re-extraction did not match the initial analysis of the sample as such the data was excluded due to data results not comparable. 625.1 and 625.1_SIM results for Halawa Shaft Viewing Pool (380-205880-1) collected on 03/31/26 are not acceptable. A follow up sample was collected on 04/21/26 under job # 380-210046-1. Analysis by 621.1_SIM and 625.1 is currently in progress. (XWB4)

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: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 570-719094. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.
Method: 8015 DRO

Method 8015B: The method reporting limit check (MRL) for preparation batch 570-719094 and analytical batch 570-721907 recovered outside control limits for the following analytes: C10-C28. These analytes were biased high in the MRL and were not detected in the associated samples; therefore, the data have been reported.

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

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Detection Summary

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

Job ID: 380-205880-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: Halawa Shaft Viewing Pool

Lab Sample ID: 380-205880-1

No Detections.

Client Sample ID: TB: Halawa Shaft Viewing Pool

Lab Sample ID: 380-205880-2

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: 380-205880-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: Halawa Shaft Viewing Pool

Lab Sample ID: 380-205880-1

Date Collected: 03/31/26 09:20

Matrix: Water

Date Received: 04/02/26 09:57

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		04/03/26 14:59	04/06/26 17:43	1
2,4'-DDD	<0.097		0.097	ug/L		04/03/26 14:59	04/06/26 17:43	1
2,4'-DDE	<0.097		0.097	ug/L		04/03/26 14:59	04/06/26 17:43	1
2,4'-DDT	<0.097	*1	0.097	ug/L		04/03/26 14:59	04/06/26 17:43	1
2,4-Dinitrotoluene	<0.097		0.097	ug/L		04/03/26 14:59	04/06/26 17:43	1
2,6-Dinitrotoluene	<0.097		0.097	ug/L		04/03/26 14:59	04/06/26 17:43	1
2-Methylnaphthalene	<0.097		0.097	ug/L		04/03/26 14:59	04/06/26 17:43	1
4,4'-DDD	<0.097		0.097	ug/L		04/03/26 14:59	04/06/26 17:43	1
4,4'-DDE	<0.097		0.097	ug/L		04/03/26 14:59	04/06/26 17:43	1
4,4'-DDT	<0.097		0.097	ug/L		04/03/26 14:59	04/06/26 17:43	1
Acenaphthene	<0.097		0.097	ug/L		04/03/26 14:59	04/06/26 17:43	1
Acenaphthylene	<0.097		0.097	ug/L		04/03/26 14:59	04/06/26 17:43	1
Acetochlor	<0.097		0.097	ug/L		04/03/26 14:59	04/06/26 17:43	1
Alachlor	<0.049		0.049	ug/L		04/03/26 14:59	04/06/26 17:43	1
alpha-BHC	<0.097		0.097	ug/L		04/03/26 14:59	04/06/26 17:43	1
alpha-Chlordane	<0.049		0.049	ug/L		04/03/26 14:59	04/06/26 17:43	1
Anthracene	<0.019		0.019	ug/L		04/03/26 14:59	04/06/26 17:43	1
Atrazine	<0.049		0.049	ug/L		04/03/26 14:59	04/06/26 17:43	1
Benz(a)anthracene	<0.049		0.049	ug/L		04/03/26 14:59	04/06/26 17:43	1
Benzo[a]pyrene	<0.019		0.019	ug/L		04/03/26 14:59	04/06/26 17:43	1
Benzo[b]fluoranthene	<0.019		0.019	ug/L		04/03/26 14:59	04/06/26 17:43	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		04/03/26 14:59	04/06/26 17:43	1
Benzo[k]fluoranthene	<0.019		0.019	ug/L		04/03/26 14:59	04/06/26 17:43	1
beta-BHC	<0.097		0.097	ug/L		04/03/26 14:59	04/06/26 17:43	1
Bis(2-ethylhexyl) phthalate	<0.58		0.58	ug/L		04/03/26 14:59	04/06/26 17:43	1
Bromacil	<0.097		0.097	ug/L		04/03/26 14:59	04/06/26 17:43	1
Butachlor	<0.049		0.049	ug/L		04/03/26 14:59	04/06/26 17:43	1
Butylbenzylphthalate	<0.49		0.49	ug/L		04/03/26 14:59	04/06/26 17:43	1
Chlorobenzilate	<0.097	*1	0.097	ug/L		04/03/26 14:59	04/06/26 17:43	1
Chloroneb	<0.097		0.097	ug/L		04/03/26 14:59	04/06/26 17:43	1
Chlorothalonil (Draconil, Bravo)	<0.097		0.097	ug/L		04/03/26 14:59	04/06/26 17:43	1
Chlorpyrifos	<0.049		0.049	ug/L		04/03/26 14:59	04/06/26 17:43	1
Chrysene	<0.019		0.019	ug/L		04/03/26 14:59	04/06/26 17:43	1
delta-BHC	<0.097		0.097	ug/L		04/03/26 14:59	04/06/26 17:43	1
Di(2-ethylhexyl)adipate	<0.58		0.58	ug/L		04/03/26 14:59	04/06/26 17:43	1
Dibenz(a,h)anthracene	<0.049	*1	0.049	ug/L		04/03/26 14:59	04/06/26 17:43	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		04/03/26 14:59	04/06/26 17:43	1
Dieldrin	<0.0097	*1	0.0097	ug/L		04/03/26 14:59	04/06/26 17:43	1
Diethylphthalate	<0.49		0.49	ug/L		04/03/26 14:59	04/06/26 17:43	1
Dimethylphthalate	<0.49		0.49	ug/L		04/03/26 14:59	04/06/26 17:43	1
Di-n-butyl phthalate	<0.97		0.97	ug/L		04/03/26 14:59	04/06/26 17:43	1
Di-n-octyl phthalate	<0.097		0.097	ug/L		04/03/26 14:59	04/06/26 17:43	1
Endosulfan I (Alpha)	<0.097		0.097	ug/L		04/03/26 14:59	04/06/26 17:43	1
Endosulfan II (Beta)	<0.097		0.097	ug/L		04/03/26 14:59	04/06/26 17:43	1
Endosulfan sulfate	<0.097		0.097	ug/L		04/03/26 14:59	04/06/26 17:43	1
Endrin	<0.0097	*+	0.0097	ug/L		04/03/26 14:59	04/06/26 17:43	1
Endrin aldehyde	<0.097		0.097	ug/L		04/03/26 14:59	04/06/26 17:43	1
EPTC	<0.097		0.097	ug/L		04/03/26 14:59	04/06/26 17:43	1
Fluoranthene	<0.097		0.097	ug/L		04/03/26 14:59	04/06/26 17:43	1

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Client Sample Results

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

Job ID: 380-205880-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: Halawa Shaft Viewing Pool

Lab Sample ID: 380-205880-1

Date Collected: 03/31/26 09:20

Matrix: Water

Date Received: 04/02/26 09:57

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		04/03/26 14:59	04/06/26 17:43	1
gamma-Chlordane	<0.049		0.049	ug/L		04/03/26 14:59	04/06/26 17:43	1
Heptachlor	<0.0097		0.0097	ug/L		04/03/26 14:59	04/06/26 17:43	1
Heptachlor epoxide (isomer B)	<0.0097		0.0097	ug/L		04/03/26 14:59	04/06/26 17:43	1
Hexachlorobenzene	<0.049		0.049	ug/L		04/03/26 14:59	04/06/26 17:43	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		04/03/26 14:59	04/06/26 17:43	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		04/03/26 14:59	04/06/26 17:43	1
Isophorone	<0.097		0.097	ug/L		04/03/26 14:59	04/06/26 17:43	1
Lindane	<0.0097		0.0097	ug/L		04/03/26 14:59	04/06/26 17:43	1
Malathion	<0.097		0.097	ug/L		04/03/26 14:59	04/06/26 17:43	1
Methoxychlor	<0.049		0.049	ug/L		04/03/26 14:59	04/06/26 17:43	1
Metolachlor	<0.049		0.049	ug/L		04/03/26 14:59	04/06/26 17:43	1
Molinate	<0.097		0.097	ug/L		04/03/26 14:59	04/06/26 17:43	1
Naphthalene	<0.097		0.097	ug/L		04/03/26 14:59	04/06/26 17:43	1
Parathion	<0.097		0.097	ug/L		04/03/26 14:59	04/06/26 17:43	1
Pendimethalin (Penoxaline)	<0.097		0.097	ug/L		04/03/26 14:59	04/06/26 17:43	1
Phenanthrene	<0.039		0.039	ug/L		04/03/26 14:59	04/06/26 17:43	1
Propachlor	<0.049		0.049	ug/L		04/03/26 14:59	04/06/26 17:43	1
Pyrene	<0.049		0.049	ug/L		04/03/26 14:59	04/06/26 17:43	1
Simazine	<0.049		0.049	ug/L		04/03/26 14:59	04/06/26 17:43	1
Terbacil	<0.097		0.097	ug/L		04/03/26 14:59	04/06/26 17:43	1
Terbutylazine	<0.097		0.097	ug/L		04/03/26 14:59	04/06/26 17:43	1
Thiobencarb	<0.097		0.097	ug/L		04/03/26 14:59	04/06/26 17:43	1
Total Permethrin (mixed isomers)	<0.19		0.19	ug/L		04/03/26 14:59	04/06/26 17:43	1
trans-Nonachlor	<0.049	*1	0.049	ug/L		04/03/26 14:59	04/06/26 17:43	1
Trifluralin	<0.097		0.097	ug/L		04/03/26 14:59	04/06/26 17:43	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	04/03/26 14:59	04/06/26 17:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	98		70 - 130	04/03/26 14:59	04/06/26 17:43	1
Perylene-d12	82		70 - 130	04/03/26 14:59	04/06/26 17:43	1
Triphenylphosphate	108		70 - 130	04/03/26 14:59	04/06/26 17:43	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			04/07/26 22:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		38 - 134		04/07/26 22:51	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		04/03/26 09:36	04/09/26 11:17	1
Motor Oil Range Organics [C24-C36]	<26		26	ug/L		04/03/26 09:36	04/09/26 11:17	1
C8-C18	<26		26	ug/L		04/03/26 09:36	04/09/26 11:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	121		60 - 130	04/03/26 09:36	04/09/26 11:17	1

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Client Sample Results

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

Job ID: 380-205880-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: TB: Halawa Shaft Viewing Pool

Lab Sample ID: 380-205880-2

Date Collected: 03/31/26 09:20

Matrix: Water

Date Received: 04/02/26 09:57

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			04/08/26 01:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		38 - 134		04/08/26 01:30	1

Action Limit Summary

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

Job ID: 380-205880-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: Halawa Shaft Viewing Pool

Lab Sample ID: 380-205880-1

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

Surrogate Summary

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

Job ID: 380-205880-1
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)
380-204919-BG-1-A MS	Matrix Spike	99	98	121
380-205880-1	Halawa Shaft Viewing Pool	98	82	108
380-205880-1 DU	Halawa Shaft Viewing Pool	98	93	97
LCS 380-217777/23-A	Lab Control Sample	99	88	118
LCSD 380-217777/24-A	Lab Control Sample Dup	98	92	108
MB 380-217777/21-A	Method Blank	95	97	96
MRL 380-217777/22-A	Lab Control Sample	97	87	109

Surrogate Legend
 2NMX = 2-Nitro-m-xylene
 PRY = Perylene-d12
 TPP = Triphenylphosphate

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		BFB1 (38-134)
380-205656-B-1 MS	Matrix Spike	89
380-205656-B-1 MSD	Matrix Spike Duplicate	97
380-205880-1	Halawa Shaft Viewing Pool	92
380-205880-2	TB: Halawa Shaft Viewing Pool	96
LCS 570-720590/5	Lab Control Sample	96
LCSD 570-720590/6	Lab Control Sample Dup	100
MB 570-720590/8	Method Blank	93
MRL 570-720590/9	Lab Control Sample	97

Surrogate Legend
 BFB = 4-Bromofluorobenzene (Surr)

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		OTCSN1 (60-130)
380-205880-1	Halawa Shaft Viewing Pool	121
LCS 570-719094/2-A	Lab Control Sample	119
LCSD 570-719094/3-A	Lab Control Sample Dup	117
MB 570-719094/1-A	Method Blank	123
MRL 570-719094/4-A	Lab Control Sample	118

Surrogate Legend
 OTCSN = n-Octacosane (Surr)

QC Sample Results

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

Job ID: 380-205880-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MB 380-217777/21-A
Matrix: Water
Analysis Batch: 218090

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 217777

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.099		0.099	ug/L		04/03/26 14:59	04/06/26 15:23	1
2,4'-DDD	<0.099		0.099	ug/L		04/03/26 14:59	04/06/26 15:23	1
2,4'-DDE	<0.099		0.099	ug/L		04/03/26 14:59	04/06/26 15:23	1
2,4'-DDT	<0.099		0.099	ug/L		04/03/26 14:59	04/06/26 15:23	1
2,4-Dinitrotoluene	<0.099		0.099	ug/L		04/03/26 14:59	04/06/26 15:23	1
2,6-Dinitrotoluene	<0.099		0.099	ug/L		04/03/26 14:59	04/06/26 15:23	1
2-Methylnaphthalene	<0.099		0.099	ug/L		04/03/26 14:59	04/06/26 15:23	1
4,4'-DDD	<0.099		0.099	ug/L		04/03/26 14:59	04/06/26 15:23	1
4,4'-DDE	<0.099		0.099	ug/L		04/03/26 14:59	04/06/26 15:23	1
4,4'-DDT	<0.099		0.099	ug/L		04/03/26 14:59	04/06/26 15:23	1
Acenaphthene	<0.099		0.099	ug/L		04/03/26 14:59	04/06/26 15:23	1
Acenaphthylene	<0.099		0.099	ug/L		04/03/26 14:59	04/06/26 15:23	1
Acetochlor	<0.099		0.099	ug/L		04/03/26 14:59	04/06/26 15:23	1
Alachlor	<0.049		0.049	ug/L		04/03/26 14:59	04/06/26 15:23	1
alpha-BHC	<0.099		0.099	ug/L		04/03/26 14:59	04/06/26 15:23	1
alpha-Chlordane	<0.049		0.049	ug/L		04/03/26 14:59	04/06/26 15:23	1
Anthracene	<0.020		0.020	ug/L		04/03/26 14:59	04/06/26 15:23	1
Atrazine	<0.049		0.049	ug/L		04/03/26 14:59	04/06/26 15:23	1
Benz(a)anthracene	<0.049		0.049	ug/L		04/03/26 14:59	04/06/26 15:23	1
Benzo[a]pyrene	<0.020		0.020	ug/L		04/03/26 14:59	04/06/26 15:23	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		04/03/26 14:59	04/06/26 15:23	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		04/03/26 14:59	04/06/26 15:23	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		04/03/26 14:59	04/06/26 15:23	1
beta-BHC	<0.099		0.099	ug/L		04/03/26 14:59	04/06/26 15:23	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		04/03/26 14:59	04/06/26 15:23	1
Bromacil	<0.099		0.099	ug/L		04/03/26 14:59	04/06/26 15:23	1
Butachlor	<0.049		0.049	ug/L		04/03/26 14:59	04/06/26 15:23	1
Butylbenzylphthalate	<0.49		0.49	ug/L		04/03/26 14:59	04/06/26 15:23	1
Chlorobenzilate	<0.099		0.099	ug/L		04/03/26 14:59	04/06/26 15:23	1
Chloroneb	<0.099		0.099	ug/L		04/03/26 14:59	04/06/26 15:23	1
Chlorothalonil (Draconil, Bravo)	<0.099		0.099	ug/L		04/03/26 14:59	04/06/26 15:23	1
Chlorpyrifos	<0.049		0.049	ug/L		04/03/26 14:59	04/06/26 15:23	1
Chrysene	<0.020		0.020	ug/L		04/03/26 14:59	04/06/26 15:23	1
delta-BHC	<0.099		0.099	ug/L		04/03/26 14:59	04/06/26 15:23	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		04/03/26 14:59	04/06/26 15:23	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		04/03/26 14:59	04/06/26 15:23	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		04/03/26 14:59	04/06/26 15:23	1
Dieldrin	<0.0099		0.0099	ug/L		04/03/26 14:59	04/06/26 15:23	1
Diethylphthalate	<0.49		0.49	ug/L		04/03/26 14:59	04/06/26 15:23	1
Dimethylphthalate	<0.49		0.49	ug/L		04/03/26 14:59	04/06/26 15:23	1
Di-n-butyl phthalate	<0.99		0.99	ug/L		04/03/26 14:59	04/06/26 15:23	1
Di-n-octyl phthalate	<0.099		0.099	ug/L		04/03/26 14:59	04/06/26 15:23	1
Endosulfan I (Alpha)	<0.099		0.099	ug/L		04/03/26 14:59	04/06/26 15:23	1
Endosulfan II (Beta)	<0.099		0.099	ug/L		04/03/26 14:59	04/06/26 15:23	1
Endosulfan sulfate	<0.099		0.099	ug/L		04/03/26 14:59	04/06/26 15:23	1
Endrin	<0.0099		0.0099	ug/L		04/03/26 14:59	04/06/26 15:23	1
Endrin aldehyde	<0.099		0.099	ug/L		04/03/26 14:59	04/06/26 15:23	1
EPTC	<0.099		0.099	ug/L		04/03/26 14:59	04/06/26 15:23	1

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QC Sample Results

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

Job ID: 380-205880-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MB 380-217777/21-A
Matrix: Water
Analysis Batch: 218090

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 217777

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.099		0.099	ug/L		04/03/26 14:59	04/06/26 15:23	1
Fluorene	<0.049		0.049	ug/L		04/03/26 14:59	04/06/26 15:23	1
gamma-Chlordane	<0.049		0.049	ug/L		04/03/26 14:59	04/06/26 15:23	1
Heptachlor	<0.0099		0.0099	ug/L		04/03/26 14:59	04/06/26 15:23	1
Heptachlor epoxide (isomer B)	<0.0099		0.0099	ug/L		04/03/26 14:59	04/06/26 15:23	1
Hexachlorobenzene	<0.049		0.049	ug/L		04/03/26 14:59	04/06/26 15:23	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		04/03/26 14:59	04/06/26 15:23	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		04/03/26 14:59	04/06/26 15:23	1
Isophorone	<0.099		0.099	ug/L		04/03/26 14:59	04/06/26 15:23	1
Lindane	<0.0099		0.0099	ug/L		04/03/26 14:59	04/06/26 15:23	1
Malathion	<0.099		0.099	ug/L		04/03/26 14:59	04/06/26 15:23	1
Methoxychlor	<0.049		0.049	ug/L		04/03/26 14:59	04/06/26 15:23	1
Metolachlor	<0.049		0.049	ug/L		04/03/26 14:59	04/06/26 15:23	1
Molinate	<0.099		0.099	ug/L		04/03/26 14:59	04/06/26 15:23	1
Naphthalene	<0.099		0.099	ug/L		04/03/26 14:59	04/06/26 15:23	1
Parathion	<0.099		0.099	ug/L		04/03/26 14:59	04/06/26 15:23	1
Pendimethalin (Penoxaline)	<0.099		0.099	ug/L		04/03/26 14:59	04/06/26 15:23	1
Phenanthrene	<0.039		0.039	ug/L		04/03/26 14:59	04/06/26 15:23	1
Propachlor	<0.049		0.049	ug/L		04/03/26 14:59	04/06/26 15:23	1
Pyrene	<0.049		0.049	ug/L		04/03/26 14:59	04/06/26 15:23	1
Simazine	<0.049		0.049	ug/L		04/03/26 14:59	04/06/26 15:23	1
Terbacil	<0.099		0.099	ug/L		04/03/26 14:59	04/06/26 15:23	1
Terbutylazine	<0.099		0.099	ug/L		04/03/26 14:59	04/06/26 15:23	1
Thiobencarb	<0.099		0.099	ug/L		04/03/26 14:59	04/06/26 15:23	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		04/03/26 14:59	04/06/26 15:23	1
trans-Nonachlor	<0.049		0.049	ug/L		04/03/26 14:59	04/06/26 15:23	1
Trifluralin	<0.099		0.099	ug/L		04/03/26 14:59	04/06/26 15:23	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Bacchotricuneatin c	0.716	T J N	ug/L		3.06	66563-30-2	04/03/26 14:59	04/06/26 15:23	1
Decane, 3-methyl-	0.534	T J N	ug/L		3.08	13151-34-3	04/03/26 14:59	04/06/26 15:23	1
Undecane	7.08	T J N	ug/L		3.18	1120-21-4	04/03/26 14:59	04/06/26 15:23	1
Cyclohexasiloxane, dodecamethyl-	0.712	T J N	ug/L		3.94	540-97-6	04/03/26 14:59	04/06/26 15:23	1
9-Octadecenamide, (Z)-	1.20	T J N	ug/L		8.02	301-02-0	04/03/26 14:59	04/06/26 15:23	1
13-Docosenamide, (Z)-	0.514	T J N	ug/L		10.60	112-84-5	04/03/26 14:59	04/06/26 15:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	95		70 - 130	04/03/26 14:59	04/06/26 15:23	1
Perylene-d12	97		70 - 130	04/03/26 14:59	04/06/26 15:23	1
Triphenylphosphate	96		70 - 130	04/03/26 14:59	04/06/26 15:23	1

Lab Sample ID: LCS 380-217777/23-A
Matrix: Water
Analysis Batch: 218090

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 217777

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1-Methylnaphthalene	1.97	2.03		ug/L		103	70 - 130
2,4'-DDD	1.97	2.40		ug/L		122	70 - 130

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QC Sample Results

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

Job ID: 380-205880-1
 SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCS 380-217777/23-A
Matrix: Water
Analysis Batch: 218090

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 217777

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4'-DDE	1.97	2.34		ug/L		119	70 - 130
2,4'-DDT	1.97	2.28		ug/L		116	70 - 130
2,4-Dinitrotoluene	1.97	1.78		ug/L		90	70 - 130
2,6-Dinitrotoluene	1.97	1.80		ug/L		91	70 - 130
2-Methylnaphthalene	1.97	2.03		ug/L		103	70 - 130
4,4'-DDD	1.97	2.43		ug/L		124	70 - 130
4,4'-DDE	1.97	2.35		ug/L		120	70 - 130
4,4'-DDT	1.97	2.46		ug/L		125	70 - 130
Acenaphthene	1.97	2.07		ug/L		105	70 - 130
Acenaphthylene	1.97	1.98		ug/L		100	70 - 130
Acetochlor	1.97	2.23		ug/L		113	70 - 130
Alachlor	1.97	2.31		ug/L		118	70 - 130
alpha-BHC	1.97	1.82		ug/L		92	70 - 130
alpha-Chlordane	1.97	2.48		ug/L		126	70 - 130
Anthracene	1.97	2.02		ug/L		103	70 - 130
Atrazine	1.97	2.12		ug/L		108	70 - 130
Benz(a)anthracene	1.97	2.37		ug/L		121	70 - 130
Benzo[a]pyrene	1.97	1.84		ug/L		94	70 - 130
Benzo[b]fluoranthene	1.97	1.90		ug/L		97	70 - 130
Benzo[g,h,i]perylene	1.97	2.06		ug/L		105	70 - 130
Benzo[k]fluoranthene	1.97	1.87		ug/L		95	70 - 130
beta-BHC	1.97	2.00		ug/L		102	70 - 130
Bis(2-ethylhexyl) phthalate	1.97	1.97		ug/L		100	70 - 130
Bromacil	1.97	1.64		ug/L		83	70 - 130
Butachlor	1.97	2.40		ug/L		122	70 - 130
Butylbenzylphthalate	1.97	2.38		ug/L		121	70 - 130
Chlorobenzilate	1.97	2.51		ug/L		128	70 - 130
Chloroneb	1.97	2.15		ug/L		109	70 - 130
Chlorothalonil (Draconil, Bravo)	1.97	2.34		ug/L		119	70 - 130
Chlorpyrifos	1.97	2.14		ug/L		109	70 - 130
Chrysene	1.97	2.11		ug/L		107	70 - 130
delta-BHC	1.97	2.06		ug/L		105	70 - 130
Di(2-ethylhexyl)adipate	1.97	2.36		ug/L		120	70 - 130
Dibenz(a,h)anthracene	1.97	2.05		ug/L		104	70 - 130
Diclorvos (DDVP)	1.97	2.11		ug/L		107	70 - 130
Dieldrin	1.97	2.42		ug/L		123	70 - 130
Diethylphthalate	1.97	2.23		ug/L		113	70 - 130
Dimethylphthalate	1.97	2.07		ug/L		105	70 - 130
Di-n-butyl phthalate	3.94	4.49		ug/L		114	70 - 130
Di-n-octyl phthalate	1.97	1.79		ug/L		91	70 - 130
Endosulfan I (Alpha)	1.97	2.40		ug/L		122	70 - 130
Endosulfan II (Beta)	1.97	2.44		ug/L		124	70 - 130
Endosulfan sulfate	1.97	2.46		ug/L		125	70 - 130
Endrin	1.97	2.66	*+	ug/L		135	70 - 130
Endrin aldehyde	1.97	2.39		ug/L		121	60 - 130
EPTC	1.97	2.19		ug/L		111	70 - 130
Fluoranthene	1.97	2.40		ug/L		122	70 - 130
Fluorene	1.97	2.14		ug/L		109	70 - 130
gamma-Chlordane	1.97	2.55		ug/L		130	70 - 130

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QC Sample Results

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

Job ID: 380-205880-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCS 380-217777/23-A
Matrix: Water
Analysis Batch: 218090

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 217777

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Heptachlor	1.97	2.14		ug/L		109	70 - 130
Heptachlor epoxide (isomer B)	1.97	2.40		ug/L		122	70 - 130
Hexachlorobenzene	1.97	1.81		ug/L		92	70 - 130
Hexachlorocyclopentadiene	1.97	1.95		ug/L		99	70 - 130
Indeno[1,2,3-cd]pyrene	1.97	2.05		ug/L		104	70 - 130
Isophorone	1.97	2.06		ug/L		105	70 - 130
Lindane	1.97	1.94		ug/L		99	70 - 130
Malathion	1.97	2.16		ug/L		110	70 - 130
Methoxychlor	1.97	2.14		ug/L		109	70 - 130
Metolachlor	1.97	2.04		ug/L		104	70 - 130
Molinate	1.97	2.20		ug/L		112	70 - 130
Naphthalene	1.97	2.06		ug/L		105	70 - 130
Parathion	1.97	2.18		ug/L		111	70 - 130
Pendimethalin (Penoxaline)	1.97	2.22		ug/L		113	70 - 130
Phenanthrene	1.97	2.00		ug/L		102	70 - 130
Propachlor	1.97	2.32		ug/L		118	70 - 130
Pyrene	1.97	2.39		ug/L		121	70 - 130
Simazine	1.97	1.92		ug/L		98	70 - 130
Terbacil	1.97	1.98		ug/L		101	70 - 130
Terbutylazine	1.97	1.99		ug/L		101	70 - 130
Thiobencarb	1.97	2.29		ug/L		116	70 - 130
trans-Nonachlor	1.97	2.38		ug/L		121	70 - 130
Trifluralin	1.97	1.97		ug/L		100	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Nitro-m-xylene	99		70 - 130
Perylene-d12	88		70 - 130
Triphenylphosphate	118		70 - 130

Lab Sample ID: LCSD 380-217777/24-A
Matrix: Water
Analysis Batch: 218090

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 217777

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	1.97	1.99		ug/L		101	70 - 130	2	20
2,4'-DDD	1.97	2.09		ug/L		106	70 - 130	14	20
2,4'-DDE	1.97	1.93		ug/L		98	70 - 130	19	20
2,4'-DDT	1.97	1.70	*1	ug/L		86	70 - 130	29	20
2,4-Dinitrotoluene	1.97	1.90		ug/L		97	70 - 130	7	20
2,6-Dinitrotoluene	1.97	1.93		ug/L		98	70 - 130	7	20
2-Methylnaphthalene	1.97	2.01		ug/L		102	70 - 130	1	20
4,4'-DDD	1.97	2.14		ug/L		109	70 - 130	13	20
4,4'-DDE	1.97	1.93		ug/L		98	70 - 130	19	20
4,4'-DDT	1.97	2.25		ug/L		115	70 - 130	9	20
Acenaphthene	1.97	2.06		ug/L		105	70 - 130	0	20
Acenaphthylene	1.97	2.00		ug/L		102	70 - 130	1	20
Acetochlor	1.97	2.05		ug/L		105	70 - 130	8	20
Alachlor	1.97	2.15		ug/L		109	70 - 130	7	20

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QC Sample Results

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

Job ID: 380-205880-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCSD 380-217777/24-A
Matrix: Water
Analysis Batch: 218090

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 217777

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
alpha-BHC	1.97	2.14		ug/L		109	70 - 130	16	20	
alpha-Chlordane	1.97	2.19		ug/L		111	70 - 130	13	20	
Anthracene	1.97	1.98		ug/L		101	70 - 130	2	20	
Atrazine	1.97	2.41		ug/L		123	70 - 130	13	20	
Benz(a)anthracene	1.97	2.16		ug/L		110	70 - 130	9	20	
Benzo[a]pyrene	1.97	1.91		ug/L		97	70 - 130	4	20	
Benzo[b]fluoranthene	1.97	2.12		ug/L		108	70 - 130	11	20	
Benzo[g,h,i]perylene	1.97	1.73		ug/L		88	70 - 130	17	20	
Benzo[k]fluoranthene	1.97	1.96		ug/L		99	70 - 130	4	20	
beta-BHC	1.97	2.34		ug/L		119	70 - 130	16	20	
Bis(2-ethylhexyl) phthalate	1.97	2.02		ug/L		103	70 - 130	2	20	
Bromacil	1.97	1.71		ug/L		87	70 - 130	4	20	
Butachlor	1.97	2.01		ug/L		102	70 - 130	18	20	
Butylbenzylphthalate	1.97	2.03		ug/L		103	70 - 130	16	20	
Chlorobenzilate	1.97	2.04	*1	ug/L		104	70 - 130	21	20	
Chloroneb	1.97	2.14		ug/L		109	70 - 130	1	20	
Chlorothalonil (Draconil, Bravo)	1.97	2.26		ug/L		115	70 - 130	4	20	
Chlorpyrifos	1.97	2.10		ug/L		107	70 - 130	2	20	
Chrysene	1.97	2.10		ug/L		107	70 - 130	1	20	
delta-BHC	1.97	2.12		ug/L		108	70 - 130	3	20	
Di(2-ethylhexyl)adipate	1.97	2.24		ug/L		114	70 - 130	5	20	
Dibenz(a,h)anthracene	1.97	1.67	*1	ug/L		85	70 - 130	21	20	
Diclorvos (DDVP)	1.97	2.22		ug/L		113	70 - 130	5	20	
Dieldrin	1.97	1.95	*1	ug/L		99	70 - 130	21	20	
Diethylphthalate	1.97	2.27		ug/L		115	70 - 130	2	20	
Dimethylphthalate	1.97	2.13		ug/L		108	70 - 130	3	20	
Di-n-butyl phthalate	3.93	4.19		ug/L		107	70 - 130	7	20	
Di-n-octyl phthalate	1.97	2.02		ug/L		103	70 - 130	12	20	
Endosulfan I (Alpha)	1.97	2.04		ug/L		104	70 - 130	16	20	
Endosulfan II (Beta)	1.97	2.08		ug/L		106	70 - 130	16	20	
Endosulfan sulfate	1.97	2.22		ug/L		113	70 - 130	11	20	
Endrin	1.97	2.21		ug/L		112	70 - 130	19	20	
Endrin aldehyde	1.97	1.98		ug/L		101	60 - 130	18	20	
EPTC	1.97	2.15		ug/L		110	70 - 130	2	20	
Fluoranthene	1.97	1.97		ug/L		100	70 - 130	20	20	
Fluorene	1.97	2.17		ug/L		110	70 - 130	1	20	
gamma-Chlordane	1.97	2.13		ug/L		108	70 - 130	18	20	
Heptachlor	1.97	1.92		ug/L		98	70 - 130	11	20	
Heptachlor epoxide (isomer B)	1.97	2.00		ug/L		102	70 - 130	18	20	
Hexachlorobenzene	1.97	2.07		ug/L		105	70 - 130	13	20	
Hexachlorocyclopentadiene	1.97	2.02		ug/L		103	70 - 130	4	20	
Indeno[1,2,3-cd]pyrene	1.97	1.93		ug/L		98	70 - 130	6	20	
Isophorone	1.97	2.10		ug/L		107	70 - 130	2	20	
Lindane	1.97	2.22		ug/L		113	70 - 130	14	20	
Malathion	1.97	1.95		ug/L		99	70 - 130	10	20	
Methoxychlor	1.97	2.12		ug/L		108	70 - 130	1	20	
Metolachlor	1.97	1.89		ug/L		96	70 - 130	8	20	
Molinate	1.97	2.21		ug/L		113	70 - 130	0	20	
Naphthalene	1.97	2.03		ug/L		103	70 - 130	1	20	

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QC Sample Results

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

Job ID: 380-205880-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCSD 380-217777/24-A
Matrix: Water
Analysis Batch: 218090

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 217777

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Parathion	1.97	1.91		ug/L		97	70 - 130	13	20
Pendimethalin (Penoxaline)	1.97	1.83		ug/L		93	70 - 130	19	20
Phenanthrene	1.97	2.01		ug/L		102	70 - 130	0	20
Propachlor	1.97	2.39		ug/L		122	70 - 130	3	20
Pyrene	1.97	2.13		ug/L		108	70 - 130	12	20
Simazine	1.97	2.30		ug/L		117	70 - 130	18	20
Terbacil	1.97	2.29		ug/L		117	70 - 130	15	20
Terbutylazine	1.97	2.38		ug/L		121	70 - 130	18	20
Thiobencarb	1.97	2.08		ug/L		106	70 - 130	10	20
trans-Nonachlor	1.97	1.79	*1	ug/L		91	70 - 130	28	20
Trifluralin	1.97	1.94		ug/L		99	70 - 130	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Nitro-m-xylene	98		70 - 130
Perylene-d12	92		70 - 130
Triphenylphosphate	108		70 - 130

Lab Sample ID: MRL 380-217777/22-A
Matrix: Water
Analysis Batch: 218090

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 217777

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	0.0984	0.112		ug/L		114	50 - 150
2,4'-DDD	0.0984	0.0981		ug/L		100	50 - 150
2,4'-DDE	0.0984	0.111		ug/L		113	50 - 150
2,4'-DDT	0.0984	0.116		ug/L		118	50 - 150
2,4-Dinitrotoluene	0.0984	0.0915	J	ug/L		93	50 - 150
2,6-Dinitrotoluene	0.0984	0.133		ug/L		135	50 - 150
2-Methylnaphthalene	0.0984	0.105		ug/L		106	50 - 150
4,4'-DDD	0.0984	0.119		ug/L		121	50 - 150
4,4'-DDE	0.0984	0.0972	J	ug/L		99	50 - 150
4,4'-DDT	0.0984	0.126		ug/L		128	50 - 150
Acenaphthene	0.0984	0.104		ug/L		106	50 - 150
Acenaphthylene	0.0984	0.0934	J	ug/L		95	50 - 150
Acetochlor	0.0984	0.113		ug/L		115	50 - 150
Alachlor	0.0492	0.0560		ug/L		114	50 - 150
alpha-BHC	0.0984	0.109		ug/L		111	50 - 150
alpha-Chlordane	0.0246	0.0297	J	ug/L		121	50 - 150
Anthracene	0.0197	0.0222		ug/L		113	50 - 150
Atrazine	0.0492	0.0568		ug/L		116	50 - 150
Benz(a)anthracene	0.0492	0.0623		ug/L		127	50 - 150
Benzo[a]pyrene	0.0197	0.0206		ug/L		105	50 - 150
Benzo[b]fluoranthene	0.0197	0.0245		ug/L		124	50 - 150
Benzo[g,h,i]perylene	0.0492	0.0446	J	ug/L		91	50 - 150
Benzo[k]fluoranthene	0.0197	0.0210		ug/L		107	50 - 150
beta-BHC	0.0984	0.112		ug/L		114	50 - 150
Bis(2-ethylhexyl) phthalate	0.590	0.618		ug/L		105	50 - 150
Bromacil	0.0984	0.103		ug/L		105	50 - 150

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QC Sample Results

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

Job ID: 380-205880-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MRL 380-217777/22-A
Matrix: Water
Analysis Batch: 218090

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 217777

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Butachlor	0.0492	0.0653		ug/L		133	50 - 150
Butylbenzylphthalate	0.492	0.611		ug/L		124	50 - 150
Chlorobenzilate	0.0984	0.112		ug/L		114	50 - 150
Chloroneb	0.0984	0.115		ug/L		117	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0984	0.0970	J	ug/L		99	50 - 150
Chlorpyrifos	0.0492	0.0513		ug/L		104	50 - 150
Chrysene	0.0197	0.0256		ug/L		130	50 - 150
delta-BHC	0.0984	0.118		ug/L		120	50 - 150
Di(2-ethylhexyl)adipate	0.590	0.712		ug/L		121	50 - 150
Dibenz(a,h)anthracene	0.0492	0.0460	J	ug/L		93	50 - 150
Diclorvos (DDVP)	0.0492	0.0542		ug/L		110	50 - 150
Dieldrin	0.00984	0.0102		ug/L		104	50 - 150
Diethylphthalate	0.492	0.568		ug/L		116	50 - 150
Dimethylphthalate	0.492	0.516		ug/L		105	50 - 150
Di-n-butyl phthalate	0.492	0.643	J	ug/L		131	49 - 243
Di-n-octyl phthalate	0.0984	0.102		ug/L		104	50 - 150
Endosulfan I (Alpha)	0.0984	0.103		ug/L		104	50 - 150
Endosulfan II (Beta)	0.0984	0.108		ug/L		109	50 - 150
Endosulfan sulfate	0.0984	0.116		ug/L		118	50 - 150
Endrin	0.00984	0.0124		ug/L		126	50 - 150
Endrin aldehyde	0.0984	0.110		ug/L		111	50 - 150
EPTC	0.0984	0.107		ug/L		109	50 - 150
Fluoranthene	0.0984	0.107		ug/L		108	50 - 150
Fluorene	0.0492	0.0531		ug/L		108	50 - 150
gamma-Chlordane	0.0246	0.0284	J	ug/L		116	50 - 150
Heptachlor	0.00984	0.0103		ug/L		105	50 - 150
Heptachlor epoxide (isomer B)	0.00984	0.0102		ug/L		104	50 - 150
Hexachlorobenzene	0.0492	0.0495		ug/L		101	50 - 150
Hexachlorocyclopentadiene	0.0492	0.0431	J	ug/L		88	50 - 150
Indeno[1,2,3-cd]pyrene	0.0492	0.0510		ug/L		104	50 - 150
Isophorone	0.0984	0.122		ug/L		124	50 - 150
Lindane	0.00984	0.0108		ug/L		109	50 - 150
Malathion	0.0984	0.110		ug/L		112	50 - 150
Methoxychlor	0.0492	0.0575		ug/L		117	50 - 150
Metolachlor	0.0492	0.0676		ug/L		137	50 - 150
Molinate	0.0984	0.114		ug/L		116	50 - 150
Naphthalene	0.0984	0.109		ug/L		111	50 - 150
Parathion	0.0984	0.101		ug/L		103	50 - 150
Pendimethalin (Penoxaline)	0.0984	0.0916	J	ug/L		93	50 - 150
Phenanthrene	0.0394	0.0469		ug/L		119	50 - 150
Propachlor	0.0492	0.0585		ug/L		119	50 - 150
Pyrene	0.0492	0.0560		ug/L		114	50 - 150
Simazine	0.0492	0.0497		ug/L		101	50 - 150
Terbacil	0.0984	0.101		ug/L		102	50 - 150
Terbutylazine	0.0984	0.108		ug/L		109	50 - 150
Thiobencarb	0.0984	0.107		ug/L		109	50 - 150
trans-Nonachlor	0.0246	0.0264	J	ug/L		107	50 - 150
Trifluralin	0.0984	0.0948	J	ug/L		96	50 - 150

QC Sample Results

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

Job ID: 380-205880-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MRL 380-217777/22-A
Matrix: Water
Analysis Batch: 218090

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 217777

<i>Surrogate</i>	<i>MRL</i> <i>%Recovery</i>	<i>MRL</i> <i>Qualifier</i>	<i>Limits</i>
2-Nitro-m-xylene	97		70 - 130
Perylene-d12	87		70 - 130
Triphenylphosphate	109		70 - 130

Lab Sample ID: 380-204919-BG-1-A MS
Matrix: Water
Analysis Batch: 218090

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 217777

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.099		1.96	2.01		ug/L		102	70 - 130
2,4'-DDD	<0.099		1.96	2.38		ug/L		121	70 - 130
2,4'-DDE	<0.099		1.96	2.00		ug/L		102	70 - 130
2,4'-DDT	<0.099	*1	1.96	2.16		ug/L		110	70 - 130
2,4-Dinitrotoluene	<0.099		1.96	2.21		ug/L		112	70 - 130
2,6-Dinitrotoluene	<0.099		1.96	2.14		ug/L		109	70 - 130
2-Methylnaphthalene	<0.099		1.96	1.99		ug/L		101	70 - 130
4,4'-DDD	<0.099		1.96	2.22		ug/L		113	70 - 130
4,4'-DDE	<0.099		1.96	2.33		ug/L		119	70 - 130
4,4'-DDT	<0.099	F1	1.96	2.62	F1	ug/L		133	70 - 130
Acenaphthene	<0.099		1.96	2.05		ug/L		104	70 - 130
Acenaphthylene	<0.099		1.96	2.10		ug/L		107	70 - 130
Acetochlor	<0.099		1.96	2.43		ug/L		124	70 - 130
Alachlor	<0.049		1.96	2.24		ug/L		114	70 - 130
alpha-BHC	<0.099		1.96	2.17		ug/L		111	70 - 130
alpha-Chlordane	<0.049		1.96	2.30		ug/L		117	70 - 130
Anthracene	<0.020		1.96	2.12		ug/L		108	70 - 130
Atrazine	0.053		1.96	2.41		ug/L		120	70 - 130
Benz(a)anthracene	<0.049		1.96	2.46		ug/L		125	70 - 130
Benzo[a]pyrene	<0.020		1.96	2.05		ug/L		105	70 - 130
Benzo[b]fluoranthene	<0.020		1.96	2.17		ug/L		110	70 - 130
Benzo[g,h,i]perylene	<0.049		1.96	1.85		ug/L		95	70 - 130
Benzo[k]fluoranthene	<0.020		1.96	2.09		ug/L		107	70 - 130
beta-BHC	<0.099		1.96	2.29		ug/L		117	70 - 130
Bis(2-ethylhexyl) phthalate	<0.59		1.96	2.14		ug/L		109	70 - 130
Bromacil	<0.099		1.96	2.09		ug/L		107	70 - 130
Butachlor	<0.049		1.96	2.27		ug/L		116	70 - 130
Butylbenzylphthalate	<0.49		1.96	2.51		ug/L		128	70 - 130
Chlorobenzilate	<0.099	*1	1.96	2.17		ug/L		111	70 - 130
Chloroneb	<0.099		1.96	2.17		ug/L		110	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.099		1.96	2.29		ug/L		117	70 - 130
Chlorpyrifos	<0.049		1.96	2.24		ug/L		114	70 - 130
Chrysene	<0.020		1.96	2.15		ug/L		109	70 - 130
delta-BHC	<0.099		1.96	2.06		ug/L		105	70 - 130
Di(2-ethylhexyl)adipate	<0.59		1.96	2.50		ug/L		128	70 - 130
Dibenz(a,h)anthracene	<0.049	*1	1.96	2.00		ug/L		102	70 - 130
Diclorvos (DDVP)	<0.049		1.96	2.25		ug/L		115	70 - 130
Dieldrin	<0.0099	*1	1.96	2.25		ug/L		115	70 - 130
Diethylphthalate	<0.49		1.96	2.27		ug/L		116	70 - 130

QC Sample Results

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

Job ID: 380-205880-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: 380-205880-1 DU

Matrix: Water

Analysis Batch: 218090

Client Sample ID: Halawa Shaft Viewing Pool

Prep Type: Total/NA

Prep Batch: 217777

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
2,4'-DDE	<0.097		<0.098		ug/L		NC	20
2,4'-DDT	<0.097	*1	<0.098	*1	ug/L		NC	20
2,4-Dinitrotoluene	<0.097		<0.098		ug/L		NC	20
2,6-Dinitrotoluene	<0.097		<0.098		ug/L		NC	20
2-Methylnaphthalene	<0.097		<0.098		ug/L		NC	20
4,4'-DDD	<0.097		<0.098		ug/L		NC	20
4,4'-DDE	<0.097		<0.098		ug/L		NC	20
4,4'-DDT	<0.097		<0.098		ug/L		NC	20
Acenaphthene	<0.097		<0.098		ug/L		NC	20
Acenaphthylene	<0.097		<0.098		ug/L		NC	20
Acetochlor	<0.097		<0.098		ug/L		NC	20
Alachlor	<0.049		<0.049		ug/L		NC	20
alpha-BHC	<0.097		<0.098		ug/L		NC	20
alpha-Chlordane	<0.049		<0.049		ug/L		NC	20
Anthracene	<0.019		<0.020		ug/L		NC	20
Atrazine	<0.049		<0.049		ug/L		NC	20
Benz(a)anthracene	<0.049		<0.049		ug/L		NC	20
Benzo[a]pyrene	<0.019		<0.020		ug/L		NC	20
Benzo[b]fluoranthene	<0.019		<0.020		ug/L		NC	20
Benzo[g,h,i]perylene	<0.049		<0.049		ug/L		NC	20
Benzo[k]fluoranthene	<0.019		<0.020		ug/L		NC	20
beta-BHC	<0.097		<0.098		ug/L		NC	20
Bis(2-ethylhexyl) phthalate	<0.58		<0.59		ug/L		NC	20
Bromacil	<0.097		<0.098		ug/L		NC	20
Butachlor	<0.049		<0.049		ug/L		NC	20
Butylbenzylphthalate	<0.49		<0.49		ug/L		NC	20
Chlorobenzilate	<0.097	*1	<0.098	*1	ug/L		NC	20
Chloroneb	<0.097		<0.098		ug/L		NC	20
Chlorothalonil (Draconil, Bravo)	<0.097		<0.098		ug/L		NC	20
Chlorpyrifos	<0.049		<0.049		ug/L		NC	20
Chrysene	<0.019		<0.020		ug/L		NC	20
delta-BHC	<0.097		<0.098		ug/L		NC	20
Di(2-ethylhexyl)adipate	<0.58		<0.59		ug/L		NC	20
Dibenz(a,h)anthracene	<0.049	*1	<0.049	*1	ug/L		NC	20
Diclorvos (DDVP)	<0.049		<0.049		ug/L		NC	20
Dieldrin	<0.0097	*1	<0.0098	*1	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		<0.98		ug/L		NC	20
Di-n-octyl phthalate	<0.097		<0.098		ug/L		NC	20
Endosulfan I (Alpha)	<0.097		<0.098		ug/L		NC	20
Endosulfan II (Beta)	<0.097		<0.098		ug/L		NC	20
Endosulfan sulfate	<0.097		<0.098		ug/L		NC	20
Endrin	<0.0097	*+	<0.0098	*+	ug/L		NC	20
Endrin aldehyde	<0.097		<0.098		ug/L		NC	20
EPTC	<0.097		<0.098		ug/L		NC	20
Fluoranthene	<0.097		<0.098		ug/L		NC	20
Fluorene	<0.049		<0.049		ug/L		NC	20
gamma-Chlordane	<0.049		<0.049		ug/L		NC	20

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QC Sample Results

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

Job ID: 380-205880-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: 380-205880-1 DU
Matrix: Water
Analysis Batch: 218090

Client Sample ID: Halawa Shaft Viewing Pool
Prep Type: Total/NA
Prep Batch: 217777

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Heptachlor	<0.0097		<0.0098		ug/L		NC	20
Heptachlor epoxide (isomer B)	<0.0097		<0.0098		ug/L		NC	20
Hexachlorobenzene	<0.049		<0.049		ug/L		NC	20
Hexachlorocyclopentadiene	<0.049		<0.049		ug/L		NC	20
Indeno[1,2,3-cd]pyrene	<0.049		<0.049		ug/L		NC	20
Isophorone	<0.097		<0.098		ug/L		NC	20
Lindane	<0.0097		<0.0098		ug/L		NC	20
Malathion	<0.097		<0.098		ug/L		NC	20
Methoxychlor	<0.049		<0.049		ug/L		NC	20
Metolachlor	<0.049		<0.049		ug/L		NC	20
Molinate	<0.097		<0.098		ug/L		NC	20
Naphthalene	<0.097		<0.098		ug/L		NC	20
Parathion	<0.097		<0.098		ug/L		NC	20
Pendimethalin (Penoxaline)	<0.097		<0.098		ug/L		NC	20
Phenanthrene	<0.039		<0.039		ug/L		NC	20
Propachlor	<0.049		<0.049		ug/L		NC	20
Pyrene	<0.049		<0.049		ug/L		NC	20
Simazine	<0.049		<0.049		ug/L		NC	20
Terbacil	<0.097		<0.098		ug/L		NC	20
Terbutylazine	<0.097		<0.098		ug/L		NC	20
Thiobencarb	<0.097		<0.098		ug/L		NC	20
Total Permethrin (mixed isomers)	<0.19		<0.20		ug/L		NC	20
trans-Nonachlor	<0.049	*1	<0.049	*1	ug/L		NC	20
Trifluralin	<0.097		<0.098		ug/L		NC	20

Surrogate	DU	DU	Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	98		70 - 130
Perylene-d12	93		70 - 130
Triphenylphosphate	97		70 - 130

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

Lab Sample ID: MB 570-720590/8
Matrix: Water
Analysis Batch: 720590

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

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
GRO (C6-C10)	<10		10	ug/L			04/07/26 13:19	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	93		38 - 134		04/07/26 13:19	1

Lab Sample ID: LCS 570-720590/5
Matrix: Water
Analysis Batch: 720590

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits

Eurofins Pomona

QC Sample Results

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

Job ID: 380-205880-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

<i>Surrogate</i>	<i>LCS</i> <i>%Recovery</i>	<i>LCS</i> <i>Qualifier</i>	<i>Limits</i>
4-Bromofluorobenzene (Surr)	96		38 - 134

Lab Sample ID: LCSD 570-720590/6
Matrix: Water
Analysis Batch: 720590

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

<i>Analyte</i>	<i>Spike</i> <i>Added</i>	<i>LCSD</i> <i>Result</i>	<i>LCSD</i> <i>Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec</i> <i>Limits</i>	<i>RPD</i>	<i>RPD</i> <i>Limit</i>
Gasoline Range Organics (C4-C13)	400	449		ug/L		112	78 - 120	5	10

<i>Surrogate</i>	<i>LCSD</i> <i>%Recovery</i>	<i>LCSD</i> <i>Qualifier</i>	<i>Limits</i>
4-Bromofluorobenzene (Surr)	100		38 - 134

Lab Sample ID: MRL 570-720590/9
Matrix: Water
Analysis Batch: 720590

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

<i>Analyte</i>	<i>Spike</i> <i>Added</i>	<i>MRL</i> <i>Result</i>	<i>MRL</i> <i>Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec</i> <i>Limits</i>
Gasoline Range Organics (C4-C13)	10.0	12.8		ug/L		128	50 - 150

<i>Surrogate</i>	<i>MRL</i> <i>%Recovery</i>	<i>MRL</i> <i>Qualifier</i>	<i>Limits</i>
4-Bromofluorobenzene (Surr)	97		38 - 134

Lab Sample ID: 380-205656-B-1 MS
Matrix: Water
Analysis Batch: 720590

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

<i>Analyte</i>	<i>Sample</i> <i>Result</i>	<i>Sample</i> <i>Qualifier</i>	<i>Spike</i> <i>Added</i>	<i>MS</i> <i>Result</i>	<i>MS</i> <i>Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec</i> <i>Limits</i>
Gasoline Range Organics (C4-C13)	<10		400	438		ug/L		109	68 - 122

<i>Surrogate</i>	<i>MS</i> <i>%Recovery</i>	<i>MS</i> <i>Qualifier</i>	<i>Limits</i>
4-Bromofluorobenzene (Surr)	89		38 - 134

Lab Sample ID: 380-205656-B-1 MSD
Matrix: Water
Analysis Batch: 720590

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

<i>Analyte</i>	<i>Sample</i> <i>Result</i>	<i>Sample</i> <i>Qualifier</i>	<i>Spike</i> <i>Added</i>	<i>MSD</i> <i>Result</i>	<i>MSD</i> <i>Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec</i> <i>Limits</i>	<i>RPD</i>	<i>RPD</i> <i>Limit</i>
Gasoline Range Organics (C4-C13)	<10		400	432		ug/L		108	68 - 122	1	18

<i>Surrogate</i>	<i>MSD</i> <i>%Recovery</i>	<i>MSD</i> <i>Qualifier</i>	<i>Limits</i>
4-Bromofluorobenzene (Surr)	97		38 - 134

QC Sample Results

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

Job ID: 380-205880-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Lab Sample ID: MB 570-719094/1-A
Matrix: Water
Analysis Batch: 721907

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 719094

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Diesel Range Organics (C10-C24)	<25		25	ug/L		04/03/26 09:36	04/09/26 10:13	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		04/03/26 09:36	04/09/26 10:13	1
C8-C18	<25		25	ug/L		04/03/26 09:36	04/09/26 10:13	1
Surrogate	MB MB		Limits			Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier						
<i>n-Octacosane (Surr)</i>	123		60 - 130			04/03/26 09:36	04/09/26 10:13	1

Lab Sample ID: LCS 570-719094/2-A
Matrix: Water
Analysis Batch: 721907

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 719094

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits	RPD	Limit
		Result	Qualifier						
C10-C28	1600	1620		ug/L		101	56 - 127		
Surrogate	LCS LCS		Limits			%Rec	Limits	RPD	Limit
	%Recovery	Qualifier							
<i>n-Octacosane (Surr)</i>	119		60 - 130						

Lab Sample ID: LCSD 570-719094/3-A
Matrix: Water
Analysis Batch: 721907

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 719094

Analyte	Spike Added	LCSD LCSD		Unit	D	%Rec	%Rec Limits	RPD	Limit
		Result	Qualifier						
C10-C28	1600	1590		ug/L		99	56 - 127	2	23
Surrogate	LCSD LCSD		Limits			%Rec	Limits	RPD	Limit
	%Recovery	Qualifier							
<i>n-Octacosane (Surr)</i>	117		60 - 130						

Lab Sample ID: MRL 570-719094/4-A
Matrix: Water
Analysis Batch: 721907

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 719094

Analyte	Spike Added	MRL MRL		Unit	D	%Rec	%Rec Limits	RPD	Limit
		Result	Qualifier						
C10-C28	0.0200	0.0333	^3+	mg/L		167	50 - 150		
Surrogate	MRL MRL		Limits			%Rec	Limits	RPD	Limit
	%Recovery	Qualifier							
<i>n-Octacosane (Surr)</i>	118		60 - 130						

QC Association Summary

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

Job ID: 380-205880-1
SDG: Weekly: Halawa Shaft Viewing Pool

GC/MS Semi VOA

Prep Batch: 217777

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-205880-1	Halawa Shaft Viewing Pool	Total/NA	Water	525.2	
MB 380-217777/21-A	Method Blank	Total/NA	Water	525.2	
LCS 380-217777/23-A	Lab Control Sample	Total/NA	Water	525.2	
LCSD 380-217777/24-A	Lab Control Sample Dup	Total/NA	Water	525.2	
MRL 380-217777/22-A	Lab Control Sample	Total/NA	Water	525.2	
380-204919-BG-1-A MS	Matrix Spike	Total/NA	Water	525.2	
380-205880-1 DU	Halawa Shaft Viewing Pool	Total/NA	Water	525.2	

Analysis Batch: 218090

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-205880-1	Halawa Shaft Viewing Pool	Total/NA	Water	525.2	217777
MB 380-217777/21-A	Method Blank	Total/NA	Water	525.2	217777
LCS 380-217777/23-A	Lab Control Sample	Total/NA	Water	525.2	217777
LCSD 380-217777/24-A	Lab Control Sample Dup	Total/NA	Water	525.2	217777
MRL 380-217777/22-A	Lab Control Sample	Total/NA	Water	525.2	217777
380-204919-BG-1-A MS	Matrix Spike	Total/NA	Water	525.2	217777
380-205880-1 DU	Halawa Shaft Viewing Pool	Total/NA	Water	525.2	217777

GC VOA

Analysis Batch: 720590

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-205880-1	Halawa Shaft Viewing Pool	Total/NA	Water	8015B GRO LL	
380-205880-2	TB: Halawa Shaft Viewing Pool	Total/NA	Water	8015B GRO LL	
MB 570-720590/8	Method Blank	Total/NA	Water	8015B GRO LL	
LCS 570-720590/5	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-720590/6	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	
MRL 570-720590/9	Lab Control Sample	Total/NA	Water	8015B GRO LL	
380-205656-B-1 MS	Matrix Spike	Total/NA	Water	8015B GRO LL	
380-205656-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8015B GRO LL	

GC Semi VOA

Prep Batch: 719094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-205880-1	Halawa Shaft Viewing Pool	Total/NA	Water	3510C	
MB 570-719094/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-719094/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-719094/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-719094/4-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 721907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-205880-1	Halawa Shaft Viewing Pool	Total/NA	Water	8015B	719094
MB 570-719094/1-A	Method Blank	Total/NA	Water	8015B	719094
LCS 570-719094/2-A	Lab Control Sample	Total/NA	Water	8015B	719094
LCSD 570-719094/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	719094
MRL 570-719094/4-A	Lab Control Sample	Total/NA	Water	8015B	719094

Lab Chronicle

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

Job ID: 380-205880-1
 SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: Halawa Shaft Viewing Pool

Lab Sample ID: 380-205880-1

Date Collected: 03/31/26 09:20

Matrix: Water

Date Received: 04/02/26 09:57

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			217777	IQ42	EA POM	04/03/26 14:59
Total/NA	Analysis	525.2		1	218090	UPAC	EA POM	04/06/26 17:43
Total/NA	Analysis	8015B GRO LL		1	720590	A9VE	EET CAL 4	04/07/26 22:51
Total/NA	Prep	3510C			719094	EP2G	EET CAL 4	04/03/26 09:36
Total/NA	Analysis	8015B		1	721907	NR	EET CAL 4	04/09/26 11:17

Client Sample ID: TB: Halawa Shaft Viewing Pool

Lab Sample ID: 380-205880-2

Date Collected: 03/31/26 09:20

Matrix: Water

Date Received: 04/02/26 09:57

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	720590	A9VE	EET CAL 4	04/08/26 01:30

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: 380-205880-1
 SDG: Weekly: Halawa Shaft Viewing Pool

Laboratory: Eurofins Pomona

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

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

Laboratory: Eurofins Calscience

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

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	7296.01	11-30-26
A2LA	ISO/IEC 17025	7296.01	11-30-26
Alaska (UST)	State	25-005	03-02-27
Arizona	State	AZ0830	11-17-26
California	Los Angeles County Sanitation Districts	9257304	07-31-26
California	SCAQMD LAP	17LA0919	11-30-26

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

Eurofins Pomona

Accreditation/Certification Summary

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

Job ID: 380-205880-1
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	04-29-26
Kansas	NELAP	E-10420	07-31-26
Nevada	State	CA00111	04-27-26
Oregon	NELAP	4175	04-09-26
USDA	US Federal Programs	525-23-159-97150	06-08-26
Utah	NELAP	CA00111	02-28-27
Washington	State	C916	10-12-26

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Method Summary

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

Job ID: 380-205880-1
SDG: Weekly: Halawa Shaft Viewing Pool

Method	Method Description	Protocol	Laboratory
525.2	Semivolatile Organic Compounds (GC/MS)	EPA	EA POM
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

Protocol References:

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: 380-205880-1
SDG: Weekly: Halawa Shaft Viewing Pool

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
380-205880-1	Halawa Shaft Viewing Pool	Water	03/31/26 09:20	04/02/26 09:57	Hawaii
380-205880-2	TB: Halawa Shaft Viewing Pool	Water	03/31/26 09:20	04/02/26 09:57	Hawaii

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

SHIP DATE: 01APR26
ACTWGT: 30.00 LB
CAD: 258050552/INET4535

BILL RECIPIENT

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

POMONA CA 91768

(626) 386-1100

REF:

INV:
PO:

DEPT:

58KJ2/1172/648



2 of 2

THU - 02 APR 10:30A
PRIORITY OVERNIGHT

MPS# 8702 2833 9472

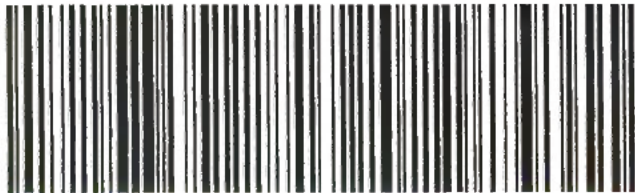
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WM ONTA

CA-US ONT



(631A) 20x0.2: 22 gal - frozen
Mona Markarratia 4/2/26 957

After printing this label:
CONSIGNEE COPY - PLEASE PLACE IN FRONT OF POUCH
1. Fold the printed page along the horizontal line.
2. Place label in shipping pouch and affix it to your shipment.



Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-205880-1
SDG Number: Weekly: Halawa Shaft Viewing Pool

Login Number: 205880
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: 380-205880-1
SDG Number: Weekly: Halawa Shaft Viewing Pool

Login Number: 205880
List Number: 2
Creator: Ferreira, Bruno

List Source: Eurofins Calscience
List Creation: 04/02/26 05:21 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	Seal present with no number.
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.3
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	vu9z
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

