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ANALYTICAL REPORT

PREPARED FOR

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JOB DESCRIPTION

RED-HILL
Weekly: Halawa Shaft Viewing Pool

JOB NUMBER

380-238101-1

Eurofins Pomona
941 Corporate Center Drive
Pomona CA 91768-2642

See page two for job notes and contact information.

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Job Notes

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

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

Compliance Statement

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

Authorization



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Definitions/Glossary

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

Job ID: 380-238101-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Job Narrative
380-238101-1

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 9/24/2026 9:40 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 3.1°C.

Receipt Exceptions
Method 525.2: Results are suspect and not acceptable for compliance reporting due to batch QC not meeting the QC limits. Analysis by 525.2 for HALAWA SHAFT VIEWING POOL (380-238101-1) collected on 09/22/26 are not acceptable and have been excluded due to QC not meeting recovery method limits. The sample is collected weekly thus follow up sample was collected on 09/29/26 under job # 380-239282-1. Analysis by EPA 525.2 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
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

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

Job ID: 380-238101-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: HALAWA SHAFT VIEWING POOL — Lab Sample ID: 380-238101-1

No Detections.

Client Sample ID: TB: HALAWA SHAFT VIEWING POOL — Lab Sample ID: 380-238101-2

No Detections.

This Detection Summary does not include radiochemical test results.

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

Job ID: 380-238101-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: HALAWA SHAFT VIEWING POOL

Date Collected: 09/22/26 09:30
Date Received: 09/24/26 09:40

Lab Sample ID: 380-238101-1

Matrix: Water

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		09/26/26 07:58	09/29/26 16:38	1
2-Methylnaphthalene	<0.19		0.19		ug/L		09/26/26 07:58	09/29/26 16:38	1
Acenaphthene	<0.19		0.19		ug/L		09/26/26 07:58	09/29/26 16:38	1
Acenaphthylene	<0.19		0.19		ug/L		09/26/26 07:58	09/29/26 16:38	1
Anthracene	<0.19		0.19		ug/L		09/26/26 07:58	09/29/26 16:38	1
Benzo[a]anthracene	<0.19		0.19		ug/L		09/26/26 07:58	09/29/26 16:38	1
Benzo[a]pyrene	<0.19		0.19		ug/L		09/26/26 07:58	09/29/26 16:38	1
Benzo[b]fluoranthene	<0.19		0.19		ug/L		09/26/26 07:58	09/29/26 16:38	1
Benzo[g,h,i]perylene	<0.19		0.19		ug/L		09/26/26 07:58	09/29/26 16:38	1
Benzo[k]fluoranthene	<0.19		0.19		ug/L		09/26/26 07:58	09/29/26 16:38	1
Chrysene	<0.19		0.19		ug/L		09/26/26 07:58	09/29/26 16:38	1
Dibenz(a,h)anthracene	<0.19		0.19		ug/L		09/26/26 07:58	09/29/26 16:38	1
Fluoranthene	<0.19		0.19		ug/L		09/26/26 07:58	09/29/26 16:38	1
Fluorene	<0.19		0.19		ug/L		09/26/26 07:58	09/29/26 16:38	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19		ug/L		09/26/26 07:58	09/29/26 16:38	1
Naphthalene	<0.19		0.19		ug/L		09/26/26 07:58	09/29/26 16:38	1
Phenanthrene	<0.19		0.19		ug/L		09/26/26 07:58	09/29/26 16:38	1
Pyrene	<0.19		0.19		ug/L		09/26/26 07:58	09/29/26 16:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*82*		*28 - 127*	*09/26/26 07:58*	*09/29/26 16:38*	*1*
2-Fluorobiphenyl (Surr)	*76*		*31 - 120*	*09/26/26 07:58*	*09/29/26 16:38*	*1*
2-Fluorophenol (Surr)	*46*		*17 - 120*	*09/26/26 07:58*	*09/29/26 16:38*	*1*
Nitrobenzene-d5 (Surr)	*78*		*27 - 120*	*09/26/26 07:58*	*09/29/26 16:38*	*1*
Phenol-d6 (Surr)	*28*		*10 - 120*	*09/26/26 07:58*	*09/29/26 16:38*	*1*
p-Terphenyl-d14 (Surr)	*69*		*45 - 120*	*09/26/26 07:58*	*09/29/26 16:38*	*1*

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

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*	*09/26/26 07:58*	*09/29/26 21:17*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*61*		*33 - 139*	*09/26/26 07:58*	*09/29/26 21:17*	*1*
2-Fluorobiphenyl (Surr)	*84*		*33 - 126*	*09/26/26 07:58*	*09/29/26 21:17*	*1*
2-Fluorophenol (Surr)	*50*		*12 - 120*	*09/26/26 07:58*	*09/29/26 21:17*	*1*
Nitrobenzene-d5 (Surr)	*74*		*36 - 120*	*09/26/26 07:58*	*09/29/26 21:17*	*1*
Phenol-d6 (Surr)	*23*		*10 - 120*	*09/26/26 07:58*	*09/29/26 21:17*	*1*
p-Terphenyl-d14 (Surr)	*84*		*47 - 131*	*09/26/26 07:58*	*09/29/26 21:17*	*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			10/01/26 21:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*38 - 134*		*10/01/26 21:10*	*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		09/28/26 10:14	10/03/26 00:44	1
Motor Oil Range Organics [C24-C36]	<25		25		ug/L		09/28/26 10:14	10/03/26 00:44	1

Client Sample ID: HALAWA SHAFT VIEWING POOL

Lab Sample ID: 380-238101-1
Matrix: Water
Date Collected: 09/22/26 09:30
Date Received: 09/24/26 09:40

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C8-C18	<25		25		ug/L		09/28/26 10:14	10/03/26 00:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*100*		*60 - 130*	*09/28/26 10:14*	*10/03/26 00:44*	*1*

Client Sample ID: TB: HALAWA SHAFT VIEWING POOL

Lab Sample ID: 380-238101-2
Matrix: Water
Date Collected: 09/22/26 09:30
Date Received: 09/24/26 09:40

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			10/01/26 18:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*38 - 134*		*10/01/26 18:51*	*1*

Action Limit Summary

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

Job ID: 380-238101-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: HALAWA SHAFT VIEWING POOL — Lab Sample ID: 380-238101-1

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 Limit	RL	Method	Prep Type
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: 380-238101-1
SDG: Weekly: Halawa Shaft Viewing Pool

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

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	TBP (33-139)	FBP (33-126)	2FP (12-120)	NBZ (36-120)	PHL6 (10-120)	TPHd14 (47-131)
380-238101-1	HALAWA SHAFT VIEWING PO(	61	84	50	74	23	84
MB 570-806145/1-A	Method Blank	69	89	45	84	18	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**

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	TBP (28-127)	FBP (31-120)	2FP (17-120)	NBZ (27-120)	PHL6 (10-120)	TPHd14 (45-120)
380-237858-B-1-A MS	Matrix Spike	88	82	62	63	40	89
380-237858-B-1-B MSD	Matrix Spike Duplicate	77	73	51	57	34	82
380-238101-1	HALAWA SHAFT VIEWING POOL	82	76	46	78	28	69
LCS 570-806145/2-A	Lab Control Sample	77	74	56	60	38	78
LCSD 570-806145/3-A	Lab Control Sample Dup	78	74	57	60	39	81
MB 570-806145/1-A	Method Blank	87	75	52	83	34	72

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: 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)
380-237858-C-1 MS	Matrix Spike	100
380-237858-C-1 MSD	Matrix Spike Duplicate	101
380-238101-1	HALAWA SHAFT VIEWING POOL	97
380-238101-2	TB: HALAWA SHAFT VIEWING POOL	101
LCS 570-808619/3	Lab Control Sample	99
LCSD 570-808619/4	Lab Control Sample Dup	97
MB 570-808619/6	Method Blank	101
MRL 570-808619/5	Lab Control Sample	96

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

Surrogate Summary

Client: City & County of Honolulu
Job ID: 380-238101-1
Project/Site: RED-HILL
SDG: Weekly: Halawa Shaft Viewing Pool

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)						
380-237858-A-1-A MS	Matrix Spike	103						
380-237858-A-1-B MSD	Matrix Spike Duplicate	91						
380-238101-1	HALAWA SHAFT VIEWING POOL	100						
LCS 570-806448/2-A	Lab Control Sample	92						
LCSD 570-806448/3-A	Lab Control Sample Dup	97						
MB 570 806448/1 A	Method Blank	87						
MRL 570-806448/4-A	Lab Control Sample	89						

Surrogate Legend

OTCSN = n-Octacosane (Surr)

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

Lab Sample ID: MB 570-806145/1-A
Matrix: Water
Analysis Batch: 807530

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 806145

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	09/26/26 07:58	09/29/26 14:50	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	69		33 - 139	09/26/26 07:58	09/29/26 14:50	1
2-Fluorobiphenyl (Surr)	89		33 - 126	09/26/26 07:58	09/29/26 14:50	1
2-Fluorophenol (Surr)	45		12 - 120	09/26/26 07:58	09/29/26 14:50	1
Nitrobenzene-d5 (Surr)	84		36 - 120	09/26/26 07:58	09/29/26 14:50	1
Phenol-d6 (Surr)	18		10 - 120	09/26/26 07:58	09/29/26 14:50	1
p-Terphenyl-d14 (Surr)	91		47 - 131	09/26/26 07:58	09/29/26 14:50	1

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

Lab Sample ID: MB 570-806145/1-A
Matrix: Water
Analysis Batch: 806634

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 806145

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.20		0.20		ug/L		09/26/26 07:58	09/28/26 08:57	1
2-Methylnaphthalene	<0.20		0.20		ug/L		09/26/26 07:58	09/28/26 08:57	1
Acenaphthene	<0.20		0.20		ug/L		09/26/26 07:58	09/28/26 08:57	1
Acenaphthylene	<0.20		0.20		ug/L		09/26/26 07:58	09/28/26 08:57	1
Anthracene	<0.20		0.20		ug/L		09/26/26 07:58	09/28/26 08:57	1
Benzo[a]anthracene	<0.20		0.20		ug/L		09/26/26 07:58	09/28/26 08:57	1
Benzo[a]pyrene	<0.20		0.20		ug/L		09/26/26 07:58	09/28/26 08:57	1
Benzo[b]fluoranthene	<0.20		0.20		ug/L		09/26/26 07:58	09/28/26 08:57	1
Benzo[g,h,i]perylene	<0.20		0.20		ug/L		09/26/26 07:58	09/28/26 08:57	1
Benzo[k]fluoranthene	<0.20		0.20		ug/L		09/26/26 07:58	09/28/26 08:57	1
Chrysene	<0.20		0.20		ug/L		09/26/26 07:58	09/28/26 08:57	1
Dibenz(a,h)anthracene	<0.20		0.20		ug/L		09/26/26 07:58	09/28/26 08:57	1
Fluoranthene	<0.20		0.20		ug/L		09/26/26 07:58	09/28/26 08:57	1
Fluorene	<0.20		0.20		ug/L		09/26/26 07:58	09/28/26 08:57	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20		ug/L		09/26/26 07:58	09/28/26 08:57	1
Naphthalene	<0.20		0.20		ug/L		09/26/26 07:58	09/28/26 08:57	1
Phenanthrene	<0.20		0.20		ug/L		09/26/26 07:58	09/28/26 08:57	1
Pyrene	<0.20		0.20		ug/L		09/26/26 07:58	09/28/26 08:57	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	87		28 - 127	09/26/26 07:58	09/28/26 08:57	1
2-Fluorobiphenyl (Surr)	75		31 - 120	09/26/26 07:58	09/28/26 08:57	1
2-Fluorophenol (Surr)	52		17 - 120	09/26/26 07:58	09/28/26 08:57	1
Nitrobenzene-d5 (Surr)	83		27 - 120	09/26/26 07:58	09/28/26 08:57	1
Phenol-d6 (Surr)	34		10 - 120	09/26/26 07:58	09/28/26 08:57	1
p-Terphenyl-d14 (Surr)	72		45 - 120	09/26/26 07:58	09/28/26 08:57	1

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

Lab Sample ID: LCS 570-806145/2-A
Matrix: Water
Analysis Batch: 806634

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 806145

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1-Methylnaphthalene			20.0	10.8		ug/L		54	47 - 120		
2-Methylnaphthalene			20.0	10.6		ug/L		53	43 - 120		
Acenaphthene			20.0	14.6		ug/L		73	60 - 132		
Acenaphthylene			20.0	14.3		ug/L		72	54 - 126		
Anthracene			20.0	15.3		ug/L		76	43 - 120		
Benzo[a]anthracene			20.0	15.7		ug/L		79	42 - 133		
Benzo[a]pyrene			20.0	16.9		ug/L		85	32 - 148		
Benzo[b]fluoranthene			20.0	15.9		ug/L		80	42 - 140		
Benzo[g,h,i]perylene			20.0	15.3		ug/L		76	1 - 195		
Benzo[k]fluoranthene			20.0	16.1		ug/L		80	25 - 146		
Chrysene			20.0	15.3		ug/L		77	44 - 140		
Dibenz(a,h)anthracene			20.0	15.3		ug/L		76	1 - 200		
Fluoranthene			20.0	16.0		ug/L		80	43 - 121		
Fluorene			20.0	15.1		ug/L		76	70 - 120		
Indeno[1,2,3-cd]pyrene			20.0	15.4		ug/L		77	1 - 151		
Naphthalene			20.0	10.8		ug/L		54	36 - 120		
Phenanthrene			20.0	15.5		ug/L		77	65 - 120		
Pyrene			20.0	15.7		ug/L		79	70 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*77*		*28 - 127*
2-Fluorobiphenyl (Surr)	*74*		*31 - 120*
2-Fluorophenol (Surr)	*56*		*17 - 120*
Nitrobenzene-d5 (Surr)	*60*		*27 - 120*
Phenol-d6 (Surr)	*38*		*10 - 120*
p-Terphenyl-d14 (Surr)	*78*		*45 - 120*

Lab Sample ID: LCSD 570-806145/3-A
Matrix: Water
Analysis Batch: 806634

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 806145

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene			20.0	11.4		ug/L		57	47 - 120	5	20
2-Methylnaphthalene			20.0	11.2		ug/L		56	43 - 120	5	20
Acenaphthene			20.0	14.9		ug/L		75	60 - 132	2	29
Acenaphthylene			20.0	14.7		ug/L		73	54 - 126	2	45
Anthracene			20.0	15.7		ug/L		78	43 - 120	3	40
Benzo[a]anthracene			20.0	16.5		ug/L		83	42 - 133	5	32
Benzo[a]pyrene			20.0	17.2		ug/L		86	32 - 148	2	43
Benzo[b]fluoranthene			20.0	16.6		ug/L		83	42 - 140	4	43
Benzo[g,h,i]perylene			20.0	15.8		ug/L		79	1 - 195	3	61
Benzo[k]fluoranthene			20.0	16.5		ug/L		82	25 - 146	2	38
Chrysene			20.0	15.9		ug/L		80	44 - 140	4	53
Dibenz(a,h)anthracene			20.0	15.8		ug/L		79	1 - 200	3	75
Fluoranthene			20.0	16.5		ug/L		83	43 - 121	3	40
Fluorene			20.0	15.6		ug/L		78	70 - 120	3	23
Indeno[1,2,3-cd]pyrene			20.0	15.9		ug/L		79	1 - 151	3	60
Naphthalene			20.0	10.9		ug/L		55	36 - 120	1	39

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

Lab Sample ID: LCSD 570-806145/3-A
Matrix: Water
Analysis Batch: 806634

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 806145

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenanthrene			20.0	16.0		ug/L		80	65 - 120	3	24
Pyrene			20.0	16.7		ug/L		84	70 - 120	6	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*78*		*28 - 127*
2-Fluorobiphenyl (Surr)	*74*		*31 - 120*
2-Fluorophenol (Surr)	*57*		*17 120*
Nitrobenzene-d5 (Surr)	*60*		*27 - 120*
Phenol-d6 (Surr)	*39*		*10 - 120*
p-Terphenyl-d14 (Surr)	*81*		*45 - 120*

Lab Sample ID: 380-237858-B-1-A MS
Matrix: Water
Analysis Batch: 807307

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 806145

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.19		19.4	11.8		ug/L		60	36 - 120
2-Methylnaphthalene	<0.19		19.4	11.9		ug/L		61	32 - 124
Acenaphthene	<0.19		19.4	15.9		ug/L		82	47 - 145
Acenaphthylene	<0.19		19.4	15.7		ug/L		81	33 - 145
Anthracene	<0.19		19.4	16.1		ug/L		83	27 - 133
Benzo[a]anthracene	<0.19		19.4	17.4		ug/L		89	33 - 143
Benzo[a]pyrene	<0.19		19.4	18.0		ug/L		93	17 - 163
Benzo[b]fluoranthene	<0.19		19.4	17.5		ug/L		90	24 - 159
Benzo[g,h,i]perylene	<0.19		19.4	15.9		ug/L		82	1 - 219
Benzo[k]fluoranthene	<0.19		19.4	17.0		ug/L		88	11 - 162
Chrysene	<0.19		19.4	16.6		ug/L		85	17 - 168
Dibenz(a,h)anthracene	<0.19		19.4	15.8		ug/L		81	1 - 227
Fluoranthene	<0.19		19.4	17.0		ug/L		87	26 - 137
Fluorene	<0.19		19.4	16.4		ug/L		84	59 - 121
Indeno[1,2,3-cd]pyrene	<0.19		19.4	16.1		ug/L		83	1 - 171
Naphthalene	<0.19		19.4	11.3		ug/L		58	21 - 133
Phenanthrene	<0.19		19.4	16.4		ug/L		85	54 - 120
Pyrene	<0.19		19.4	18.3		ug/L		94	52 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*88*		*28 - 127*
2-Fluorobiphenyl (Surr)	*82*		*31 - 120*
2-Fluorophenol (Surr)	*62*		*17 - 120*
Nitrobenzene-d5 (Surr)	*63*		*27 - 120*
Phenol-d6 (Surr)	*40*		*10 - 120*
p-Terphenyl-d14 (Surr)	*89*		*45 - 120*

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

Lab Sample ID: 380-237858-B-1-B MSD
Matrix: Water
Analysis Batch: 807307

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 806145

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	<0.19		19.4	10.6		ug/L		55	36 - 120	10	30
2-Methylnaphthalene	<0.19		19.4	10.7		ug/L		55	32 - 124	11	30
Acenaphthene	<0.19		19.4	13.9		ug/L		72	47 - 145	13	48
Acenaphthylene	<0.19		19.4	13.9		ug/L		72	33 - 145	12	74
Anthracene	<0.19		19.4	14.8		ug/L		76	27 - 133	8	66
Benzo[a]anthracene	<0.19		19.4	16.0		ug/L		83	33 - 143	8	53
Benzo[a]pyrene	<0.19		19.4	16.6		ug/L		85	17 - 163	8	72
Benzo[b]fluoranthene	<0.19		19.4	16.2		ug/L		83	24 - 159	8	71
Benzo[g,h,i]perylene	<0.19		19.4	14.9		ug/L		77	1 - 219	6	97
Benzo[k]fluoranthene	<0.19		19.4	15.5		ug/L		80	11 - 162	10	63
Chrysene	<0.19		19.4	15.2		ug/L		78	17 - 168	9	87
Dibenz(a,h)anthracene	<0.19		19.4	14.8		ug/L		76	1 - 227	6	126
Fluoranthene	<0.19		19.4	15.7		ug/L		81	26 - 137	8	66
Fluorene	<0.19		19.4	14.6		ug/L		75	59 - 121	11	38
Indeno[1,2,3-cd]pyrene	<0.19		19.4	14.9		ug/L		77	1 - 171	8	99
Naphthalene	<0.19		19.4	10.1		ug/L		52	21 - 133	11	65
Phenanthrene	<0.19		19.4	15.0		ug/L		77	54 - 120	9	39
Pyrene	<0.19		19.4	16.7		ug/L		86	52 - 120	9	49

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*77*		*28 - 127*
2-Fluorobiphenyl (Surr)	*73*		*31 - 120*
2-Fluorophenol (Surr)	*51*		*17 - 120*
Nitrobenzene-d5 (Surr)	*57*		*27 - 120*
Phenol-d6 (Surr)	*34*		*10 - 120*
p-Terphenyl-d14 (Surr)	*82*		*45 - 120*

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

Lab Sample ID: MB 570-808619/6
Matrix: Water
Analysis Batch: 808619

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			10/01/26 11:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*38 - 134*		*10/01/26 11:50*	*1*

Lab Sample ID: LCS 570-808619/3
Matrix: Water
Analysis Batch: 808619

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	396		ug/L		99	78 - 120		

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

Lab Sample ID: LCS 570-808619/3
Matrix: Water
Analysis Batch: 808619

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

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*38 - 134*

Lab Sample ID: LCSD 570-808619/4
Matrix: Water
Analysis Batch: 808619

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (C4-C13)			400	384		ug/L		96	78 - 120	3	10

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*38 - 134*

Lab Sample ID: MRL 570-808619/5
Matrix: Water
Analysis Batch: 808619

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (C4-C13)			10.0	13.0		ug/L		130	50 - 150		

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

Lab Sample ID: 380-237858-C-1 MS
Matrix: Water
Analysis Batch: 808619

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	383		ug/L		96	68 - 122		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*38 - 134*

Lab Sample ID: 380-237858-C-1 MSD
Matrix: Water
Analysis Batch: 808619

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	392		ug/L		98	68 - 122	2	18

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*38 - 134*

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

Lab Sample ID: MB 570-806448/1-A
Matrix: Water
Analysis Batch: 809548

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 806448

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<25		25		ug/L		09/27/26 14:54	10/02/26 19:38	1
Motor Oil Range Organics [C24-C36]	<25		25		ug/L		09/27/26 14:54	10/02/26 19:38	1
C8-C18	<25		25		ug/L		09/27/26 14:54	10/02/26 19:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*87*		*60 - 130*	*09/27/26 14:54*	*10/02/26 19:38*	*1*

Lab Sample ID: LCS 570-806448/2-A
Matrix: Water
Analysis Batch: 809548

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 806448

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
C10-C28			1600	1380		ug/L		86	56 - 127		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-Octacosane (Surr)	*92*		*60 - 130*

Lab Sample ID: LCSD 570-806448/3-A
Matrix: Water
Analysis Batch: 809548

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 806448

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28			1600	1500		ug/L		94	56 - 127	9	23

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
n-Octacosane (Surr)	*97*		*60 - 130*

Lab Sample ID: MRL 570-806448/4-A
Matrix: Water
Analysis Batch: 809548

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 806448

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
C10-C28			0.0200	0.0252		mg/L		126	50 - 150		

Surrogate	*MRL %Recovery*	*MRL Qualifier*	*Limits*
n-Octacosane (Surr)	*89*		*60 - 130*

Lab Sample ID: 380-237858-A-1-A MS
Matrix: Water
Analysis Batch: 809548

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 806448

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
C10-C28	<25		1650	1660		ug/L		100	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
n-Octacosane (Surr)	*103*		*60 - 130*

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

Lab Sample ID: 380-237858-A-1-B MSD
Matrix: Water
Analysis Batch: 809548

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 806448

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28	<25		1620	1370		ug/L		85	70 - 130	19	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
n-Octacosane (Surr)	*91*		*60 - 130*

GC/MS Semi VOA

Prep Batch: 806145

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-238101-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	625.1	
MB 570-806145/1-A	Method Blank	Total/NA	Water	625.1	
LCS 570-806145/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 570-806145/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	
380-237858-B-1-A MS	Matrix Spike	Total/NA	Water	625.1	
380-237858-B-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	625.1	

Analysis Batch: 806634

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-806145/1-A	Method Blank	Total/NA	Water	625.1 SIM	806145
LCS 570-806145/2-A	Lab Control Sample	Total/NA	Water	625.1 SIM	806145
LCSD 570-806145/3-A	Lab Control Sample Dup	Total/NA	Water	625.1 SIM	806145

Analysis Batch: 807307

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-238101-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	625.1 SIM	806145
380-237858-B-1-A MS	Matrix Spike	Total/NA	Water	625.1 SIM	806145
380-237858-B-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	625.1 SIM	806145

Analysis Batch: 807530

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-238101-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	625.1	806145
MB 570-806145/1-A	Method Blank	Total/NA	Water	625.1	806145

GC VOA

Analysis Batch: 808619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-238101-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	8015B GRO LL	
380-238101-2	TB: HALAWA SHAFT VIEWING POOL	Total/NA	Water	8015B GRO LL	
MB 570-808619/6	Method Blank	Total/NA	Water	8015B GRO LL	
LCS 570-808619/3	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-808619/4	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	
MRL 570-808619/5	Lab Control Sample	Total/NA	Water	8015B GRO LL	
380-237858-C-1 MS	Matrix Spike	Total/NA	Water	8015B GRO LL	
380-237858-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8015B GRO LL	

GC Semi VOA

Prep Batch: 806448

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-238101-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	3510C	
MB 570-806448/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-806448/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-806448/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-806448/4-A	Lab Control Sample	Total/NA	Water	3510C	
380-237858-A-1-A MS	Matrix Spike	Total/NA	Water	3510C	
380-237858-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

Analysis Batch: 809548

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-238101-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	8015B	806448

GC Semi VOA (Continued)

Analysis Batch: 809548 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-806448/1-A	Method Blank	Total/NA	Water	8015B	806448
LCS 570-806448/2-A	Lab Control Sample	Total/NA	Water	8015B	806448
LCSD 570-806448/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	806448
MRL 570-806448/4-A	Lab Control Sample	Total/NA	Water	8015B	806448
380-237858-A-1-A MS	Matrix Spike	Total/NA	Water	8015B	806448
380-237858-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	8015B	806448

Lab Chronicle

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

Job ID: 380-238101-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: HALAWA SHAFT VIEWING POOL

Lab Sample ID: 380-238101-1

Date Collected: 09/22/26 09:30
Matrix: Water
Date Received: 09/24/26 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	625.1			806145	KLZQ	EET CAL 4	09/26/26 07:58
Total/NA	Analysis	625.1		1	807530	S4EA	EET CAL 4	09/29/26 21:17
Total/NA	Prep	625.1			806145	KLZQ	EET CAL 4	09/26/26 07:58
Total/NA	Analysis	625.1 SIM		1	807307	J7WE	EET CAL 4	09/29/26 16:38
Total/NA	Analysis	8015B GRO LL		1	808619	A9VE	EET CAL 4	10/01/26 21:10
Total/NA	Prep	3510C			806448	TVD6	EET CAL 4	09/28/26 10:14
Total/NA	Analysis	8015B		1	809548	H6FE	EET CAL 4	10/03/26 00:44

Client Sample ID: TB: HALAWA SHAFT VIEWING POOL

Lab Sample ID: 380-238101-2

Date Collected: 09/22/26 09:30
Matrix: Water
Date Received: 09/24/26 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	808619	A9VE	EET CAL 4	10/01/26 18:51

Laboratory References:

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: 380-238101-1
SDG: Weekly: Halawa Shaft Viewing Pool

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	11-16-26
California	Los Angeles County Sanitation Districts	9257304	07-31-28
California	SCAQMD LAP	17LA0919	11-30-26
California	State	3082	07-31-28
Kansas	NELAP	E-10420	07-31-27
Nevada	State	CA00111	07-31-27
Oregon	NELAP	4175	02-02-27
Texas	NELAP	T104704499	07-31-27
USDA	US Federal Programs	525-23-159-97150	01-01-27
Utah	NELAP	CA00111	02-28-27
Washington	State	C916	10-12-26

Method Summary

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

Job ID: 380-238101-1
SDG: Weekly: Halawa Shaft Viewing Pool

Method	Method Description	Protocol	Laboratory
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
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:

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: 380-238101-1
SDG: Weekly: Halawa Shaft Viewing Pool

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
380-238101-1	HALAWA SHAFT VIEWING POOL	Water	09/22/26 09:30	09/24/26 09:40	Hawaii
380-238101-2	TB: HALAWA SHAFT VIEWING POOL	Water	09/22/26 09:30	09/24/26 09:40	Hawaii

Eurofins Eaton Analytical Pomona
941 Corporate Center Drive
Pomona, CA 91768-2642
Phone (626) 386-1100

Chain of Custody Record

eurofins

380-238101 COC

Client Information	Sampler: Kai Edison	Lab PM: Lopez, Maria	Carrier Tracking No(s):	COC No:
Client Contact: Kirk Iwamoto	Phone: +1 808 748 5840	E-Mail: Maria.Lopez@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: City & County of Honolulu	PWSID:			Job #:
Address: 630 South Beretania Street Chemistry Lab	Due Date Requested:			
City: Honolulu	TAT Requested (days):			
State, Zip: HI 96843	Compliance Project: Δ Yes Δ No			
Phone: 808-748-5840 (Tel)	PO #: C20525101 exp 05312023			
Email: kiwamoto@hbws.org	WO #:			
Project Name: RED-HILL/HBWS Sites Event Desc: RUSH Weekly Red Hill	Project #: 38001111			
Site: Hawaii	SSOW#:			

Analysis Requested

Preservation Codes:
R - NaThioSO4
RA - NaThio/HCl
Q - Na2SO3
QA - Na2SO3/HCl
Y - Trizma
I - NH4 Acetate
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	625.1, 625.1_SIM	8015B_GRO_LL - (MOD) GRO	8015B_DRO_LL_CS - HNL Ranges C10-C24/C24-C36/C8-C18	525.2_PREC - (MOD) 525plus Plus TICs	Total Number of containers	Special Instructions/Note:
			Preservation Code:				R	RA	Q	QA		
HALAWA SHAFT VIEWING POOL	22-Sep-2026	9:30	G	Water			2	3	2	2		One 525.2 bottle broken
TB HALAWA SHAFT VIEWING POOL	22-Sep-2026	9:30	G	Water				2				

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested. I II III, IV Other (specify)

Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date	Time.	Method of Shipment: FedEx

	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished [redacted]	9/23/26 12:00	HBWS	Mark Murata	9/24/26 9410	EEAP
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks: (631A) 2.9+0.2 3 961-Frozen

Ver: 04/02/2024

Eurofins Pomona
941 Corporate Center Drive
Pomona, CA 91768-2642
Phone: 626-386-1100

Chain of Custody Record

eurofins | Env

Loc: 380
238101

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Lopez, Maria	Carrier Tracking No(s): N/A	COC No: 380-384983.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Maria.Lopez@et.eurofinsus.com	State of Origin: Hawaii	Page: Page 1 of 1
Company: Eurofins Environment Testing Southwest L		Accreditations Required (See note): State - Hawaii		Job #: 380-238101-1
Address: 2841 Dow Avenue, Suite 100,	Due Date Requested: 10/5/2026			Preservation Codes: -
City: Tustin	TAT Requested (days): N/A			
State, Zip: CA, 92780				
Phone: 714-895-5494(Tel)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: RED-HILL	Project #: 38001111			
Site: Honolulu BWS Sites	SSOW#: N/A			Other: N/A

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015B_DRO_LL_CS/3510C_LL/HNL Ranges: C10-C24/C24-C36/C8-C18	8015B_GRO_LL/5030C(MOD) GRO	625.1_SIM/625_Prep(MOD) Extended PAH List	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
HALAWA SHAFT VIEWING POOL (380-238101-1)	9/22/26	09:30 Hawaiian	G	Water			X	X	X	6	MRLs are needed. Confirm any hits >RL.
TB: HALAWA SHAFT VIEWING POOL (380-238101-2)	9/22/26	09:30 Hawaiian	G	Water				X		2	MRLs are needed. Confirm any hits >RL.

380-238101 Chain of Custody

Note: Since laboratory accreditations are subject to change, Eurofins Drinking Water and Wastewater West, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Drinking Water and Wastewater West, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Drinking Water and Wastewater West, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Drinking Water and Wastewater West, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Mark Unruh	9/24/26 1700	ET AP	[illegible] Leos	9.24.26 17:05	ETAP
2	[illegible] Leos	9.24.26 1812	ETAP	[illegible]	9/24/26 1812	TEC
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.2 | 2.3 TR-3

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-238101-1
SDG Number: Weekly: Halawa Shaft Viewing Pool

Login Number: 238101
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.	False	Refer to Job Narrative for details.
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	
ClO4 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: 380-238101-1
SDG Number: Weekly: Halawa Shaft Viewing Pool

Login Number: 238101
List Number: 2
Creator: Khana, Piyush

List Source: Eurofins Calscience
List Creation: 09/24/26 07:45 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	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	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	