

# ANALYTICAL REPORT

## PREPARED FOR

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Public Service Bldg. Room 310  
Honolulu, Hawaii 96843

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## JOB DESCRIPTION

RED-HILL  
Weekly: Halawa Wells Units 1&2 P1 (MS/MSD), Aiea Wells Pumps 1&2 P2  
RUSH Weekly Red Hill

## JOB NUMBER

380-177173-1

# Eurofins Eaton Analytical Pomona

## Job Notes

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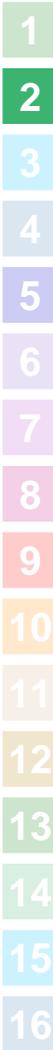
1. Laboratory is accredited in accordance with TNI 2016 Standards and ISO/IEC 17025:2017.
2. Laboratory certifies that the test results meet all TNI 2016 and ISO/IEC 17025:2017 requirements unless noted under the individual analysis
3. Test results relate only to the sample(s) tested.
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## Authorization



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# Definitions/Glossary

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

Job ID: 380-177173-1  
SDG: Weekly: Halawa Wells Units 1&2 P1 (MS/MSD), Aiea  
Wells Pumps 1&2 P2

## Qualifiers

### GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### 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: 380-177173-1

**Job ID: 380-177173-1**

**Eurofins Eaton Analytical Pomona**

## Job Narrative 380-177173-1

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 10/15/2025 10:27 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 6 coolers at receipt time were 2.2°C, 2.8°C, 3.8°C, 4.3°C, 4.8°C and 5.9°C.

### GC/MS Semi VOA

Method 625.1\_SIM: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 570-642969 and analytical batch 570-646236 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

Method 625.1\_SIM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for the following sample associated with preparation batch 570-642969 and analytical batch 570-646236 were outside control limits: HALAWA WELLS UNITS 1 & 2 (331-206-TP065) (380-177173-1[MS]). The associated laboratory control sample (LCS) recovery met acceptance criteria.

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\_DRO\_LL\_CS: The method reporting limit check (MRL) for preparation batch 570-642248 and analytical batch 570-646397 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: 380-177173-1  
SDG: Weekly: Halawa Wells Units 1&2 P1 (MS/MSD), Aiea  
Wells Pumps 1&2 P2

## Client Sample ID: HALAWA WELLS UNITS 1 & 2 P1

Lab Sample ID: 380-177173-1

(331-206-TP065)

PWSID Number: HI0000331

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Dieldrin	0.030		0.0099	ug/L	1		525.2	Total/NA
Heptachlor epoxide (isomer B)	0.013		0.0099	ug/L	1		525.2	Total/NA

## Client Sample ID: TB: HALAWA WELLS UNITS 1 & 2

Lab Sample ID: 380-177173-2

(331-206-TP065)

No Detections.

## Client Sample ID: AIEA WELLS PUMPS 1&2 P2 (260)

Lab Sample ID: 380-177173-3

(331-203-TP400)

PWSID Number: HI0000331

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Dieldrin	0.014		0.0098	ug/L	1		525.2	Total/NA

## Client Sample ID: TB: AIEA WELLS PUMPS 1&2 (260)

Lab Sample ID: 380-177173-4

(331-203-TP400)

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Eaton Analytical Pomona

# Client Sample Results

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

Job ID: 380-177173-1  
SDG: Weekly: Halawa Wells Units 1&2 P1 (MS/MSD), Aiea  
Wells Pumps 1&2 P2

**Client Sample ID: HALAWA WELLS UNITS 1 & 2 P1  
(331-206-TP065)**

**Lab Sample ID: 380-177173-1**

Date Collected: 10/13/25 10:28

Matrix: Drinking Water

Date Received: 10/15/25 10:27

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.099		0.099	ug/L		10/21/25 13:08	10/22/25 16:42	1
2,4'-DDD	<0.099		0.099	ug/L		10/21/25 13:08	10/22/25 16:42	1
2,4'-DDE	<0.099		0.099	ug/L		10/21/25 13:08	10/22/25 16:42	1
2,4' DDT	<0.099		0.099	ug/L		10/21/25 13:08	10/22/25 16:42	1
2,4-Dinitrotoluene	<0.099		0.099	ug/L		10/21/25 13:08	10/22/25 16:42	1
2,6-Dinitrotoluene	<0.099		0.099	ug/L		10/21/25 13:08	10/22/25 16:42	1
2-Methylnaphthalene	<0.099		0.099	ug/L		10/21/25 13:08	10/22/25 16:42	1
4,4'-DDD	<0.099		0.099	ug/L		10/21/25 13:08	10/22/25 16:42	1
4,4'-DDE	<0.099		0.099	ug/L		10/21/25 13:08	10/22/25 16:42	1
4,4'-DDT	<0.099		0.099	ug/L		10/21/25 13:08	10/22/25 16:42	1
Acenaphthene	<0.099		0.099	ug/L		10/21/25 13:08	10/22/25 16:42	1
Acenaphthylene	<0.099		0.099	ug/L		10/21/25 13:08	10/22/25 16:42	1
Acetochlor	<0.099		0.099	ug/L		10/21/25 13:08	10/22/25 16:42	1
Alachlor	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 16:42	1
alpha-BHC	<0.099		0.099	ug/L		10/21/25 13:08	10/22/25 16:42	1
alpha-Chlordane	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 16:42	1
Anthracene	<0.020		0.020	ug/L		10/21/25 13:08	10/22/25 16:42	1
Atrazine	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 16:42	1
Benz(a)anthracene	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 16:42	1
Benzo[a]pyrene	<0.020		0.020	ug/L		10/21/25 13:08	10/22/25 16:42	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		10/21/25 13:08	10/22/25 16:42	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 16:42	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		10/21/25 13:08	10/22/25 16:42	1
beta-BHC	<0.099		0.099	ug/L		10/21/25 13:08	10/22/25 16:42	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		10/21/25 13:08	10/22/25 16:42	1
Bromacil	<0.099		0.099	ug/L		10/21/25 13:08	10/22/25 16:42	1
Butachlor	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 16:42	1
Butylbenzylphthalate	<0.49		0.49	ug/L		10/21/25 13:08	10/22/25 16:42	1
Chlorobenzilate	<0.099		0.099	ug/L		10/21/25 13:08	10/22/25 16:42	1
Chloroneb	<0.099		0.099	ug/L		10/21/25 13:08	10/22/25 16:42	1
Chlorothalonil (Draconil, Bravo)	<0.099		0.099	ug/L		10/21/25 13:08	10/22/25 16:42	1
Chlorpyrifos	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 16:42	1
Chrysene	<0.020		0.020	ug/L		10/21/25 13:08	10/22/25 16:42	1
delta-BHC	<0.099		0.099	ug/L		10/21/25 13:08	10/22/25 16:42	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		10/21/25 13:08	10/22/25 16:42	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 16:42	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 16:42	1
<b>Dieldrin</b>	<b>0.030</b>		0.0099	ug/L		10/21/25 13:08	10/22/25 16:42	1
Diethylphthalate	<0.49		0.49	ug/L		10/21/25 13:08	10/22/25 16:42	1
Dimethylphthalate	<0.49		0.49	ug/L		10/21/25 13:08	10/22/25 16:42	1
Di-n-butyl phthalate	<0.99		0.99	ug/L		10/21/25 13:08	10/22/25 16:42	1
Di-n-octyl phthalate	<0.099		0.099	ug/L		10/21/25 13:08	10/22/25 16:42	1
Endosulfan I (Alpha)	<0.099		0.099	ug/L		10/21/25 13:08	10/22/25 16:42	1
Endosulfan II (Beta)	<0.099		0.099	ug/L		10/21/25 13:08	10/22/25 16:42	1
Endosulfan sulfate	<0.099		0.099	ug/L		10/21/25 13:08	10/22/25 16:42	1
Endrin	<0.0099		0.0099	ug/L		10/21/25 13:08	10/22/25 16:42	1
Endrin aldehyde	<0.099		0.099	ug/L		10/21/25 13:08	10/22/25 16:42	1

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# Client Sample Results

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

Job ID: 380-177173-1  
SDG: Weekly: Halawa Wells Units 1&2 P1 (MS/MSD), Aiea  
Wells Pumps 1&2 P2

**Client Sample ID: HALAWA WELLS UNITS 1 & 2 P1  
(331-206-TP065)**

**Lab Sample ID: 380-177173-1**

Date Collected: 10/13/25 10:28  
Date Received: 10/15/25 10:27

Matrix: Drinking Water  
PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
EPTC	<0.099		0.099	ug/L		10/21/25 13:08	10/22/25 16:42	1
Fluoranthene	<0.099		0.099	ug/L		10/21/25 13:08	10/22/25 16:42	1
Fluorene	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 16:42	1
gamma-Chlordane	0.049		0.049	ug/L		10/21/25 13:08	10/22/25 16:42	1
Heptachlor	<0.0099		0.0099	ug/L		10/21/25 13:08	10/22/25 16:42	1
<b>Heptachlor epoxide (isomer B)</b>	<b>0.013</b>		0.0099	ug/L		10/21/25 13:08	10/22/25 16:42	1
Hexachlorobenzene	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 16:42	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 16:42	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 16:42	1
Isophorone	<0.099		0.099	ug/L		10/21/25 13:08	10/22/25 16:42	1
Lindane	<0.0099		0.0099	ug/L		10/21/25 13:08	10/22/25 16:42	1
Malathion	<0.099		0.099	ug/L		10/21/25 13:08	10/22/25 16:42	1
Methoxychlor	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 16:42	1
Metolachlor	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 16:42	1
Molinate	<0.099		0.099	ug/L		10/21/25 13:08	10/22/25 16:42	1
Naphthalene	<0.099		0.099	ug/L		10/21/25 13:08	10/22/25 16:42	1
Parathion	<0.099		0.099	ug/L		10/21/25 13:08	10/22/25 16:42	1
Pendimethalin (Penoxaline)	<0.099		0.099	ug/L		10/21/25 13:08	10/22/25 16:42	1
Phenanthrene	<0.040		0.040	ug/L		10/21/25 13:08	10/22/25 16:42	1
Propachlor	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 16:42	1
Pyrene	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 16:42	1
Simazine	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 16:42	1
Terbacil	<0.099		0.099	ug/L		10/21/25 13:08	10/22/25 16:42	1
Terbutylazine	<0.099		0.099	ug/L		10/21/25 13:08	10/22/25 16:42	1
Thiobencarb	<0.099		0.099	ug/L		10/21/25 13:08	10/22/25 16:42	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		10/21/25 13:08	10/22/25 16:42	1
trans-Nonachlor	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 16:42	1
Trifluralin	<0.099		0.099	ug/L		10/21/25 13:08	10/22/25 16:42	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	10/21/25 13:08	10/22/25 16:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	99		70 - 130	10/21/25 13:08	10/22/25 16:42	1
Perylene-d12	89		70 - 130	10/21/25 13:08	10/22/25 16:42	1
Triphenylphosphate	102		70 - 130	10/21/25 13:08	10/22/25 16:42	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.19	F2	0.19	ug/L		10/20/25 06:11	10/26/25 03:32	1
2-Methylnaphthalene	<0.19	F2	0.19	ug/L		10/20/25 06:11	10/26/25 03:32	1
Acenaphthene	<0.19	F1 F2	0.19	ug/L		10/20/25 06:11	10/26/25 03:32	1
Acenaphthylene	<0.19		0.19	ug/L		10/20/25 06:11	10/26/25 03:32	1
Anthracene	<0.19		0.19	ug/L		10/20/25 06:11	10/26/25 03:32	1
Benzo[a]anthracene	<0.19		0.19	ug/L		10/20/25 06:11	10/26/25 03:32	1
Benzo[a]pyrene	<0.19		0.19	ug/L		10/20/25 06:11	10/26/25 03:32	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		10/20/25 06:11	10/26/25 03:32	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		10/20/25 06:11	10/26/25 03:32	1

Eurofins Eaton Analytical Pomona

# Client Sample Results

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

Job ID: 380-177173-1  
SDG: Weekly: Halawa Wells Units 1&2 P1 (MS/MSD), Aiea  
Wells Pumps 1&2 P2

**Client Sample ID: HALAWA WELLS UNITS 1 & 2 P1  
(331-206-TP065)**

**Lab Sample ID: 380-177173-1**

Date Collected: 10/13/25 10:28  
Date Received: 10/15/25 10:27

Matrix: Drinking Water  
PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	<0.19		0.19	ug/L		10/20/25 06:11	10/26/25 03:32	1
Chrysene	<0.19		0.19	ug/L		10/20/25 06:11	10/26/25 03:32	1
Dibenz(a,h)anthracene	<0.19		0.19	ug/L		10/20/25 06:11	10/26/25 03:32	1
Fluoranthene	<0.19		0.19	ug/L		10/20/25 06:11	10/26/25 03:32	1
Fluorene	<0.19	F1 F2	0.19	ug/L		10/20/25 06:11	10/26/25 03:32	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		10/20/25 06:11	10/26/25 03:32	1
Naphthalene	<0.19		0.19	ug/L		10/20/25 06:11	10/26/25 03:32	1
Phenanthrene	<0.19	F1 F2	0.19	ug/L		10/20/25 06:11	10/26/25 03:32	1
Pyrene	<0.19	F1	0.19	ug/L		10/20/25 06:11	10/26/25 03:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	77		28 - 127	10/20/25 06:11	10/26/25 03:32	1
2-Fluorobiphenyl (Surr)	69		31 - 120	10/20/25 06:11	10/26/25 03:32	1
2-Fluorophenol (Surr)	40		17 - 120	10/20/25 06:11	10/26/25 03:32	1
Nitrobenzene-d5 (Surr)	73		27 - 120	10/20/25 06:11	10/26/25 03:32	1
Phenol-d6 (Surr)	25		10 - 120	10/20/25 06:11	10/26/25 03:32	1
p-Terphenyl-d14 (Surr)	79		45 - 120	10/20/25 06:11	10/26/25 03:32	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
Furan, 2,5-dimethyl-	16	T J N	ug/L		2.01	625-86-5	10/20/25 06:11	10/26/25 04:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	88		33 - 139	10/20/25 06:11	10/26/25 04:36	1
2-Fluorobiphenyl (Surr)	90		33 - 126	10/20/25 06:11	10/26/25 04:36	1
2-Fluorophenol (Surr)	51		12 - 120	10/20/25 06:11	10/26/25 04:36	1
Nitrobenzene-d5 (Surr)	92		36 - 120	10/20/25 06:11	10/26/25 04:36	1
Phenol-d6 (Surr)	28		10 - 120	10/20/25 06:11	10/26/25 04:36	1
p-Terphenyl-d14 (Surr)	85		47 - 131	10/20/25 06:11	10/26/25 04:36	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			10/19/25 13:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		38 - 134		10/19/25 13:32	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		10/17/25 15:32	10/26/25 19:45	1
Motor Oil Range Organics [C24-C36]	<26		26	ug/L		10/17/25 15:32	10/26/25 19:45	1
C8-C18	<26		26	ug/L		10/17/25 15:32	10/26/25 19:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	113		60 - 130	10/17/25 15:32	10/26/25 19:45	1

# Client Sample Results

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

Job ID: 380-177173-1  
SDG: Weekly: Halawa Wells Units 1&2 P1 (MS/MSD), Aiea  
Wells Pumps 1&2 P2

**Client Sample ID: TB: HALAWA WELLS UNITS 1 & 2  
(331-206-TP065)**

**Lab Sample ID: 380-177173-2**

Date Collected: 10/13/25 10:28  
Date Received: 10/15/25 10:27

Matrix: Drinking Water

**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			10/19/25 18:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		38 - 134				10/19/25 18:21	1

**Client Sample ID: AIEA WELLS PUMPS 1&2 P2 (260)  
(331-203-TP400)**

**Lab Sample ID: 380-177173-3**

Date Collected: 10/13/25 11:31  
Date Received: 10/15/25 10:27

Matrix: Water  
PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.098		0.098	ug/L		10/21/25 13:08	10/22/25 17:02	1
2,4'-DDD	<0.098		0.098	ug/L		10/21/25 13:08	10/22/25 17:02	1
2,4'-DDE	<0.098		0.098	ug/L		10/21/25 13:08	10/22/25 17:02	1
2,4'-DDT	<0.098		0.098	ug/L		10/21/25 13:08	10/22/25 17:02	1
2,4-Dinitrotoluene	<0.098		0.098	ug/L		10/21/25 13:08	10/22/25 17:02	1
2,6-Dinitrotoluene	<0.098		0.098	ug/L		10/21/25 13:08	10/22/25 17:02	1
2-Methylnaphthalene	<0.098		0.098	ug/L		10/21/25 13:08	10/22/25 17:02	1
4,4'-DDD	<0.098		0.098	ug/L		10/21/25 13:08	10/22/25 17:02	1
4,4'-DDE	<0.098		0.098	ug/L		10/21/25 13:08	10/22/25 17:02	1
4,4'-DDT	<0.098		0.098	ug/L		10/21/25 13:08	10/22/25 17:02	1
Acenaphthene	<0.098		0.098	ug/L		10/21/25 13:08	10/22/25 17:02	1
Acenaphthylene	<0.098		0.098	ug/L		10/21/25 13:08	10/22/25 17:02	1
Acetochlor	<0.098		0.098	ug/L		10/21/25 13:08	10/22/25 17:02	1
Alachlor	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 17:02	1
alpha-BHC	<0.098		0.098	ug/L		10/21/25 13:08	10/22/25 17:02	1
alpha-Chlordane	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 17:02	1
Anthracene	<0.020		0.020	ug/L		10/21/25 13:08	10/22/25 17:02	1
Atrazine	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 17:02	1
Benz(a)anthracene	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 17:02	1
Benzo[a]pyrene	<0.020		0.020	ug/L		10/21/25 13:08	10/22/25 17:02	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		10/21/25 13:08	10/22/25 17:02	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 17:02	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		10/21/25 13:08	10/22/25 17:02	1
beta-BHC	<0.098		0.098	ug/L		10/21/25 13:08	10/22/25 17:02	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		10/21/25 13:08	10/22/25 17:02	1
Bromacil	<0.098		0.098	ug/L		10/21/25 13:08	10/22/25 17:02	1
Butachlor	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 17:02	1
Butylbenzylphthalate	<0.49		0.49	ug/L		10/21/25 13:08	10/22/25 17:02	1
Chlorobenzilate	<0.098		0.098	ug/L		10/21/25 13:08	10/22/25 17:02	1
Chloroneb	<0.098		0.098	ug/L		10/21/25 13:08	10/22/25 17:02	1
Chlorothalonil (Draconil, Bravo)	<0.098		0.098	ug/L		10/21/25 13:08	10/22/25 17:02	1
Chlorpyrifos	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 17:02	1
Chrysene	<0.020		0.020	ug/L		10/21/25 13:08	10/22/25 17:02	1
delta-BHC	<0.098		0.098	ug/L		10/21/25 13:08	10/22/25 17:02	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		10/21/25 13:08	10/22/25 17:02	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 17:02	1

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# Client Sample Results

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

Job ID: 380-177173-1  
SDG: Weekly: Halawa Wells Units 1&2 P1 (MS/MSD), Aiea  
Wells Pumps 1&2 P2

**Client Sample ID: AIEA WELLS PUMPS 1&2 P2 (260)**  
**(331-203-TP400)**

**Lab Sample ID: 380-177173-3**

Date Collected: 10/13/25 11:31  
Date Received: 10/15/25 10:27

Matrix: Water  
PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diclorvos (DDVP)	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 17:02	1
<b>Dieldrin</b>	<b>0.014</b>		0.0098	ug/L		10/21/25 13:08	10/22/25 17:02	1
Diethylphthalate	<0.49		0.49	ug/L		10/21/25 13:08	10/22/25 17:02	1
Dimethylphthalate	<0.49		0.49	ug/L		10/21/25 13:08	10/22/25 17:02	1
Di-n-butyl phthalate	<0.98		0.98	ug/L		10/21/25 13:08	10/22/25 17:02	1
Di-n-octyl phthalate	<0.098		0.098	ug/L		10/21/25 13:08	10/22/25 17:02	1
Endosulfan I (Alpha)	<0.098		0.098	ug/L		10/21/25 13:08	10/22/25 17:02	1
Endosulfan II (Beta)	<0.098		0.098	ug/L		10/21/25 13:08	10/22/25 17:02	1
Endosulfan sulfate	<0.098		0.098	ug/L		10/21/25 13:08	10/22/25 17:02	1
Endrin	<0.0098		0.0098	ug/L		10/21/25 13:08	10/22/25 17:02	1
Endrin aldehyde	<0.098		0.098	ug/L		10/21/25 13:08	10/22/25 17:02	1
EPTC	<0.098		0.098	ug/L		10/21/25 13:08	10/22/25 17:02	1
Fluoranthene	<0.098		0.098	ug/L		10/21/25 13:08	10/22/25 17:02	1
Fluorene	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 17:02	1
gamma-Chlordane	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 17:02	1
Heptachlor	<0.0098		0.0098	ug/L		10/21/25 13:08	10/22/25 17:02	1
Heptachlor epoxide (isomer B)	<0.0098		0.0098	ug/L		10/21/25 13:08	10/22/25 17:02	1
Hexachlorobenzene	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 17:02	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 17:02	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 17:02	1
Isophorone	<0.098		0.098	ug/L		10/21/25 13:08	10/22/25 17:02	1
Lindane	<0.0098		0.0098	ug/L		10/21/25 13:08	10/22/25 17:02	1
Malathion	<0.098		0.098	ug/L		10/21/25 13:08	10/22/25 17:02	1
Methoxychlor	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 17:02	1
Metolachlor	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 17:02	1
Molinate	<0.098		0.098	ug/L		10/21/25 13:08	10/22/25 17:02	1
Naphthalene	<0.098		0.098	ug/L		10/21/25 13:08	10/22/25 17:02	1
Parathion	<0.098		0.098	ug/L		10/21/25 13:08	10/22/25 17:02	1
Pendimethalin (Penoxaline)	<0.098		0.098	ug/L		10/21/25 13:08	10/22/25 17:02	1
Phenanthrene	<0.039		0.039	ug/L		10/21/25 13:08	10/22/25 17:02	1
Propachlor	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 17:02	1
Pyrene	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 17:02	1
Simazine	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 17:02	1
Terbacil	<0.098		0.098	ug/L		10/21/25 13:08	10/22/25 17:02	1
Terbutylazine	<0.098		0.098	ug/L		10/21/25 13:08	10/22/25 17:02	1
Thiobencarb	<0.098		0.098	ug/L		10/21/25 13:08	10/22/25 17:02	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		10/21/25 13:08	10/22/25 17:02	1
trans-Nonachlor	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 17:02	1
Trifluralin	<0.098		0.098	ug/L		10/21/25 13:08	10/22/25 17:02	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	10/21/25 13:08	10/22/25 17:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	98		70 - 130	10/21/25 13:08	10/22/25 17:02	1
Perylene-d12	88		70 - 130	10/21/25 13:08	10/22/25 17:02	1
Triphenylphosphate	101		70 - 130	10/21/25 13:08	10/22/25 17:02	1

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# Client Sample Results

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

Job ID: 380-177173-1  
SDG: Weekly: Halawa Wells Units 1&2 P1 (MS/MSD), Aiea  
Wells Pumps 1&2 P2

**Client Sample ID: AIEA WELLS PUMPS 1&2 P2 (260)**  
**(331-203-TP400)**

**Lab Sample ID: 380-177173-3**

Date Collected: 10/13/25 11:31  
Date Received: 10/15/25 10:27

Matrix: Water  
PWSID Number: HI0000331

**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		10/20/25 06:11	10/26/25 10:38	1
2-Methylnaphthalene	<0.19		0.19	ug/L		10/20/25 06:11	10/26/25 10:38	1
Acenaphthene	<0.19		0.19	ug/L		10/20/25 06:11	10/26/25 10:38	1
Acenaphthylene	<0.19		0.19	ug/L		10/20/25 06:11	10/26/25 10:38	1
Anthracene	<0.19		0.19	ug/L		10/20/25 06:11	10/26/25 10:38	1
Benzo[a]anthracene	<0.19		0.19	ug/L		10/20/25 06:11	10/26/25 10:38	1
Benzo[a]pyrene	<0.19		0.19	ug/L		10/20/25 06:11	10/26/25 10:38	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		10/20/25 06:11	10/26/25 10:38	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		10/20/25 06:11	10/26/25 10:38	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		10/20/25 06:11	10/26/25 10:38	1
Chrysene	<0.19		0.19	ug/L		10/20/25 06:11	10/26/25 10:38	1
Dibenz(a,h)anthracene	<0.19		0.19	ug/L		10/20/25 06:11	10/26/25 10:38	1
Fluoranthene	<0.19		0.19	ug/L		10/20/25 06:11	10/26/25 10:38	1
Fluorene	<0.19		0.19	ug/L		10/20/25 06:11	10/26/25 10:38	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		10/20/25 06:11	10/26/25 10:38	1
Naphthalene	<0.19		0.19	ug/L		10/20/25 06:11	10/26/25 10:38	1
Phenanthrene	<0.19		0.19	ug/L		10/20/25 06:11	10/26/25 10:38	1
Pyrene	<0.19		0.19	ug/L		10/20/25 06:11	10/26/25 10:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	49		28 - 127	10/20/25 06:11	10/26/25 10:38	1
2-Fluorobiphenyl (Surr)	70		31 - 120	10/20/25 06:11	10/26/25 10:38	1
2-Fluorophenol (Surr)	47		17 - 120	10/20/25 06:11	10/26/25 10:38	1
Nitrobenzene-d5 (Surr)	77		27 - 120	10/20/25 06:11	10/26/25 10:38	1
Phenol-d6 (Surr)	30		10 - 120	10/20/25 06:11	10/26/25 10:38	1
p-Terphenyl-d14 (Surr)	84		45 - 120	10/20/25 06:11	10/26/25 10:38	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
Furan, 2,5-dimethyl-	16	T J N	ug/L		2.01	625-86-5	10/20/25 06:11	10/26/25 05:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	85		33 - 139	10/20/25 06:11	10/26/25 05:00	1
2-Fluorobiphenyl (Surr)	87		33 - 126	10/20/25 06:11	10/26/25 05:00	1
2-Fluorophenol (Surr)	52		12 - 120	10/20/25 06:11	10/26/25 05:00	1
Nitrobenzene-d5 (Surr)	90		36 - 120	10/20/25 06:11	10/26/25 05:00	1
Phenol-d6 (Surr)	29		10 - 120	10/20/25 06:11	10/26/25 05:00	1
p-Terphenyl-d14 (Surr)	82		47 - 131	10/20/25 06:11	10/26/25 05:00	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			10/19/25 16:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		38 - 134		10/19/25 16:33	1

# Client Sample Results

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

Job ID: 380-177173-1  
 SDG: Weekly: Halawa Wells Units 1&2 P1 (MS/MSD), Aiea  
 Wells Pumps 1&2 P2

**Client Sample ID: AIEA WELLS PUMPS 1&2 P2 (260)**  
**(331-203-TP400)**

**Lab Sample ID: 380-177173-3**

Date Collected: 10/13/25 11:31  
 Date Received: 10/15/25 10:27

Matrix: Water  
 PWSID Number: HI0000331

**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		10/17/25 15:32	10/26/25 20:06	1
Motor Oil Range Organics [C24-C36]	<26		26	ug/L		10/17/25 15:32	10/26/25 20:06	1
C8-C18	<26		26	ug/L		10/17/25 15:32	10/26/25 20:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>n</i> -Octacosane (Surr)	115		60 - 130			10/17/25 15:32	10/26/25 20:06	1

**Client Sample ID: TB: AIEA WELLS PUMPS 1&2 (260)**  
**(331-203-TP400)**

**Lab Sample ID: 380-177173-4**

Date Collected: 10/13/25 11:31  
 Date Received: 10/15/25 10:27

Matrix: Water

**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			10/19/25 21:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		38 - 134				10/19/25 21:22	1

# Action Limit Summary

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

Job ID: 380-177173-1  
SDG: Weekly: Halawa Wells Units 1&2 P1 (MS/MSD), Aiea  
Wells Pumps 1&2 P2

**Client Sample ID: HALAWA WELLS UNITS 1 & 2 P1**

**Lab Sample ID: 380-177173-1**

**(331-206-TP065)**

**PWSID Number: HI0000331**

## Compliance Check

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

Analyte	Result	Qualifier	Unit	EPAMCL	RL	Method	Prep Type
				Limit			
Alachlor	<0.049		ug/L	2	0.049	525.2	Total/NA
Atrazine	<0.049		ug/L	3	0.049	525.2	Total/NA
Benzo[a]pyrene	<0.020		ug/L	0.2	0.020	525.2	Total/NA
Bis(2-ethylhexyl) phthalate	<0.59		ug/L	6	0.59	525.2	Total/NA
Di(2-ethylhexyl)adipate	<0.59		ug/L	400	0.59	525.2	Total/NA
Endrin	<0.0099		ug/L	2	0.0099	525.2	Total/NA
Heptachlor	<0.0099		ug/L	0.4	0.0099	525.2	Total/NA
Heptachlor epoxide (isomer B)	0.013		ug/L	0.2	0.0099	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	<0.0099		ug/L	0.2	0.0099	525.2	Total/NA
Methoxychlor	<0.049		ug/L	40	0.049	525.2	Total/NA
Simazine	<0.049		ug/L	4	0.049	525.2	Total/NA
Benzo[a]pyrene	<0.19		ug/L	0.2	0.19	625.1 SIM	Total/NA

**Client Sample ID: AIEA WELLS PUMPS 1&2 P2 (260)**

**Lab Sample ID: 380-177173-3**

**(331-203-TP400)**

**PWSID Number: HI0000331**

## Compliance Check

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

Analyte	Result	Qualifier	Unit	EPAMCL	RL	Method	Prep Type
				Limit			
Alachlor	<0.049		ug/L	2	0.049	525.2	Total/NA
Atrazine	<0.049		ug/L	3	0.049	525.2	Total/NA
Benzo[a]pyrene	<0.020		ug/L	0.2	0.020	525.2	Total/NA
Bis(2-ethylhexyl) phthalate	<0.59		ug/L	6	0.59	525.2	Total/NA
Di(2-ethylhexyl)adipate	<0.59		ug/L	400	0.59	525.2	Total/NA
Endrin	<0.0098		ug/L	2	0.0098	525.2	Total/NA
Heptachlor	<0.0098		ug/L	0.4	0.0098	525.2	Total/NA
Heptachlor epoxide (isomer B)	<0.0098		ug/L	0.2	0.0098	525.2	Total/NA
Hexachlorobenzene	<0.049		ug/L	1	0.049	525.2	Total/NA
Hexachlorocyclopentadiene	<0.049		ug/L	50	0.049	525.2	Total/NA
Lindane	<0.0098		ug/L	0.2	0.0098	525.2	Total/NA
Methoxychlor	<0.049		ug/L	40	0.049	525.2	Total/NA
Simazine	<0.049		ug/L	4	0.049	525.2	Total/NA
Benzo[a]pyrene	<0.19		ug/L	0.2	0.19	625.1 SIM	Total/NA

# Surrogate Summary

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

Job ID: 380-177173-1  
SDG: Weekly: Halawa Wells Units 1&2 P1 (MS/MSD), Aiea  
Wells Pumps 1&2 P2

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

Matrix: Drinking 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)
380-177173-1	HALAWA WELLS UNITS 1 & 2 P1 (	99	89	102
<b>Surrogate Legend</b>				
2NMX = 2-Nitro-m-xylene				
PRY = Perylene-d12				
TPP = Triphenylphosphate				

## 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)
380-177173-3	AIEA WELLS PUMPS 1&2 P2 (260)	98	88	101
380-177804-A-3-B MS	Matrix Spike	96	101	114
380-177804-A-3-C MSD	Matrix Spike Duplicate	98	101	118
LCS 380-181132/21-A	Lab Control Sample	97	97	105
LCS 380-181132/22-A	Lab Control Sample Dup	99	96	108
MB 380-181132/19-A	Method Blank	99	85	103
MRL 380-181132/20-A	Lab Control Sample	99	86	102
<b>Surrogate Legend</b>				
2NMX = 2-Nitro-m-xylene				
PRY = Perylene-d12				
TPP = Triphenylphosphate				

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

Matrix: Drinking Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (33-139)	FBP (33-126)	2FP (12-120)	NBZ (36-120)	PHL6 (10-120)	TPHd14 (47-131)
380-177173-1	HALAWA WELLS UNITS 1 & 2 P1 (	88	90	51	92	28	85
<b>Surrogate Legend</b>							
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 - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (33-139)	FBP (33-126)	2FP (12-120)	NBZ (36-120)	PHL6 (10-120)	TPHd14 (47-131)
380-177173-3	AIEA WELLS PUMPS 1&2 P2 (260)	85	87	52	90	29	82
MB 570-642969/1-A	Method Blank	89	87	60	93	34	83
<b>Surrogate Legend</b>							

# Surrogate Summary

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

Job ID: 380-177173-1  
SDG: Weekly: Halawa Wells Units 1&2 P1 (MS/MSD), Aiea  
Wells Pumps 1&2 P2

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: Drinking Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (28-127)	FBP (31-120)	2FP (17-120)	NBZ (27-120)	PHL6 (10-120)	TPHd14 (45-120)
380-177173-1	HALAWA WELLS UNITS 1 & 2 P1 (	77	69	40	73	25	79
380-177173-1 MS	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	48	44	29	44	20	50
380-177173-1 MSD	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	84	75	53	82	36	84

**Surrogate Legend**

TBP = 2,4,6-Tribromophenol (Surr)  
FBP = 2-Fluorobiphenyl (Surr)  
2FP = 2-Fluorophenol (Surr)  
NBZ = Nitrobenzene-d5 (Surr)  
PHL6 = Phenol-d6 (Surr)  
TPHd14 = p-Terphenyl-d14 (Surr)

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (28-127)	FBP (31-120)	2FP (17-120)	NBZ (27-120)	PHL6 (10-120)	TPHd14 (45-120)
380-177173-3	AIEA WELLS PUMPS 1&2 P2 (260)	49	70	47	77	30	84
LCS 570-642969/2-A	Lab Control Sample	78	71	53	77	37	83
LCSD 570-642969/3-A	Lab Control Sample Dup	81	75	58	70	40	83
MB 570-642969/1-A	Method Blank	76	68	50	78	33	73

**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: Drinking Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		BFB1 (38-134)
380-177173-1	HALAWA WELLS UNITS 1 & 2 P1 (	87
380-177173-1 MS	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	91
380-177173-1 MSD	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	94
380-177173-2	TB: HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	93

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# Surrogate Summary

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

Job ID: 380-177173-1  
 SDG: Weekly: Halawa Wells Units 1&2 P1 (MS/MSD), Aiea  
 Wells Pumps 1&2 P2

**Surrogate Legend**

BFB = 4-Bromofluorobenzene (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)
380-177173-3	AIEA WELLS PUMPS 1&2 P2 (260)	93
380-177173-4	TB: AIEA WELLS PUMPS 1&2 (260) (331-203-TP400)	95
LCS 570-642768/4	Lab Control Sample	95
LCSD 570-642768/5	Lab Control Sample Dup	93
MB 570-642768/6	Method Blank	91
MRL 570-642768/3	Lab Control Sample	92

**Surrogate Legend**

BFB = 4-Bromofluorobenzene (Surr)

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

**Matrix: Drinking Water**

**Prep Type: Total/NA**

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	OTCSN1 (60-130)
380-177173-1	HALAWA WELLS UNITS 1 & 2 P1 (	113
380-177173-1 MS	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	120
380-177173-1 MSD	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	121

**Surrogate Legend**

OTCSN = n-Octacosane (Surr)

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

**Matrix: Water**

**Prep Type: Total/NA**

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	OTCSN1 (60-130)
380-177173-3	AIEA WELLS PUMPS 1&2 P2 (260)	115
LCS 570-642248/2-A	Lab Control Sample	120
LCSD 570-642248/3-A	Lab Control Sample Dup	106
MB 570-642248/1-A	Method Blank	111
MRL 570-642248/4-A	Lab Control Sample	135

**Surrogate Legend**

OTCSN = n-Octacosane (Surr)

# QC Sample Results

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

Job ID: 380-177173-1  
SDG: Weekly: Halawa Wells Units 1&2 P1 (MS/MSD), Aiea  
Wells Pumps 1&2 P2

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

**Lab Sample ID: MB 380-181132/19-A**  
**Matrix: Water**  
**Analysis Batch: 181462**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 181132**

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1-Methylnaphthalene	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 15:01	1
2,4'-DDD	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 15:01	1
2,4'-DDE	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 15:01	1
2,4'-DDT	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 15:01	1
2,4-Dinitrotoluene	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 15:01	1
2,6-Dinitrotoluene	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 15:01	1
2-Methylnaphthalene	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 15:01	1
4,4'-DDD	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 15:01	1
4,4'-DDE	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 15:01	1
4,4'-DDT	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 15:01	1
Acenaphthene	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 15:01	1
Acenaphthylene	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 15:01	1
Acetochlor	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 15:01	1
Alachlor	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 15:01	1
alpha-BHC	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 15:01	1
alpha-Chlordane	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 15:01	1
Anthracene	<0.019		0.019	ug/L		10/21/25 13:08	10/22/25 15:01	1
Atrazine	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 15:01	1
Benz(a)anthracene	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 15:01	1
Benzo[a]pyrene	<0.019		0.019	ug/L		10/21/25 13:08	10/22/25 15:01	1
Benzo[b]fluoranthene	<0.019		0.019	ug/L		10/21/25 13:08	10/22/25 15:01	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 15:01	1
Benzo[k]fluoranthene	<0.019		0.019	ug/L		10/21/25 13:08	10/22/25 15:01	1
beta-BHC	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 15:01	1
Bis(2-ethylhexyl) phthalate	<0.58		0.58	ug/L		10/21/25 13:08	10/22/25 15:01	1
Bromacil	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 15:01	1
Butachlor	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 15:01	1
Butylbenzylphthalate	<0.49		0.49	ug/L		10/21/25 13:08	10/22/25 15:01	1
Chlorobenzilate	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 15:01	1
Chloroneb	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 15:01	1
Chlorothalonil (Draconil, Bravo)	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 15:01	1
Chlorpyrifos	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 15:01	1
Chrysene	<0.019		0.019	ug/L		10/21/25 13:08	10/22/25 15:01	1
delta-BHC	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 15:01	1
Di(2-ethylhexyl)adipate	<0.58		0.58	ug/L		10/21/25 13:08	10/22/25 15:01	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 15:01	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 15:01	1
Dieldrin	<0.0097		0.0097	ug/L		10/21/25 13:08	10/22/25 15:01	1
Diethylphthalate	<0.49		0.49	ug/L		10/21/25 13:08	10/22/25 15:01	1
Dimethylphthalate	<0.49		0.49	ug/L		10/21/25 13:08	10/22/25 15:01	1
Di-n-butyl phthalate	<0.97		0.97	ug/L		10/21/25 13:08	10/22/25 15:01	1
Di-n-octyl phthalate	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 15:01	1
Endosulfan I (Alpha)	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 15:01	1
Endosulfan II (Beta)	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 15:01	1
Endosulfan sulfate	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 15:01	1
Endrin	<0.0097		0.0097	ug/L		10/21/25 13:08	10/22/25 15:01	1
Endrin aldehyde	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 15:01	1

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# QC Sample Results

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

Job ID: 380-177173-1  
SDG: Weekly: Halawa Wells Units 1&2 P1 (MS/MSD), Aiea  
Wells Pumps 1&2 P2

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

Lab Sample ID: MB 380-181132/19-A

Matrix: Water

Analysis Batch: 181462

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 181132

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
EPTC	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 15:01	1
Fluoranthene	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 15:01	1
Fluorene	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 15:01	1
gamma-Chlordane	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 15:01	1
Heptachlor	<0.0097		0.0097	ug/L		10/21/25 13:08	10/22/25 15:01	1
Heptachlor epoxide (isomer B)	<0.0097		0.0097	ug/L		10/21/25 13:08	10/22/25 15:01	1
Hexachlorobenzene	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 15:01	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 15:01	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 15:01	1
Isophorone	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 15:01	1
Lindane	<0.0097		0.0097	ug/L		10/21/25 13:08	10/22/25 15:01	1
Malathion	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 15:01	1
Methoxychlor	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 15:01	1
Metolachlor	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 15:01	1
Molinate	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 15:01	1
Naphthalene	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 15:01	1
Parathion	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 15:01	1
Pendimethalin (Penoxaline)	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 15:01	1
Phenanthrene	<0.039		0.039	ug/L		10/21/25 13:08	10/22/25 15:01	1
Propachlor	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 15:01	1
Pyrene	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 15:01	1
Simazine	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 15:01	1
Terbacil	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 15:01	1
Terbutylazine	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 15:01	1
Thiobencarb	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 15:01	1
Total Permethrin (mixed isomers)	<0.19		0.19	ug/L		10/21/25 13:08	10/22/25 15:01	1
trans-Nonachlor	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 15:01	1
Trifluralin	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 15:01	1

Tentatively Identified Compound	MB	MB	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
	Est. Result	Qualifier							
Undecane	1.64	T J N	ug/L		3.13	1120-21-4	10/21/25 13:08	10/22/25 15:01	1
Phenol, p-tert-butyl-	1.21	T J N	ug/L		3.86	98-54-4	10/21/25 13:08	10/22/25 15:01	1
Phenol, 4-(1,1-dimethylpropyl)-	0.540	T J N	ug/L		4.26	80-46-6	10/21/25 13:08	10/22/25 15:01	1
Unknown	0.685	T J	ug/L		14.92	N/A	10/21/25 13:08	10/22/25 15:01	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Nitro-m-xylene	99		70 - 130	10/21/25 13:08	10/22/25 15:01	1
Perylene-d12	85		70 - 130	10/21/25 13:08	10/22/25 15:01	1
Triphenylphosphate	103		70 - 130	10/21/25 13:08	10/22/25 15:01	1

Lab Sample ID: LCS 380-181132/21-A

Matrix: Water

Analysis Batch: 181462

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 181132

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
1-Methylnaphthalene	1.95	1.81		ug/L		93	70 - 130
2,4'-DDD	1.95	1.98		ug/L		102	70 - 130

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# QC Sample Results

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

Job ID: 380-177173-1  
SDG: Weekly: Halawa Wells Units 1&2 P1 (MS/MSD), Aiea  
Wells Pumps 1&2 P2

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

Lab Sample ID: LCS 380-181132/21-A

Matrix: Water

Analysis Batch: 181462

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 181132

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec Limits
	Added	Result	Qualifier				
2,4'-DDE	1.95	2.01		ug/L		103	70 - 130
2,4'-DDT	1.95	1.96		ug/L		101	70 - 130
2,4-Dinitrotoluene	1.95	1.92		ug/L		99	70 - 130
2,6-Dinitrotoluene	1.95	1.92		ug/L		99	70 - 130
2-Methylnaphthalene	1.95	1.81		ug/L		93	70 - 130
4,4'-DDD	1.95	2.00		ug/L		103	70 - 130
4,4'-DDE	1.95	2.04		ug/L		105	70 - 130
4,4'-DDT	1.95	1.78		ug/L		91	70 - 130
Acenaphthene	1.95	1.91		ug/L		98	70 - 130
Acenaphthylene	1.95	1.82		ug/L		93	70 - 130
Acetochlor	1.95	2.15		ug/L		110	70 - 130
Alachlor	1.95	2.12		ug/L		109	70 - 130
alpha-BHC	1.95	1.96		ug/L		101	70 - 130
alpha-Chlordane	1.95	1.97		ug/L		101	70 - 130
Anthracene	1.95	1.90		ug/L		97	70 - 130
Atrazine	1.95	2.00		ug/L		102	70 - 130
Benz(a)anthracene	1.95	1.76		ug/L		90	70 - 130
Benzo[a]pyrene	1.95	1.83		ug/L		94	70 - 130
Benzo[b]fluoranthene	1.95	1.94		ug/L		100	70 - 130
Benzo[g,h,i]perylene	1.95	1.95		ug/L		100	70 - 130
Benzo[k]fluoranthene	1.95	1.81		ug/L		93	70 - 130
beta-BHC	1.95	1.94		ug/L		100	70 - 130
Bis(2-ethylhexyl) phthalate	1.95	2.12		ug/L		109	70 - 130
Bromacil	1.95	2.11		ug/L		108	70 - 130
Butachlor	1.95	2.09		ug/L		107	70 - 130
Butylbenzylphthalate	1.95	2.13		ug/L		109	70 - 130
Chlorobenzilate	1.95	2.18		ug/L		112	70 - 130
Chloroneb	1.95	1.81		ug/L		93	70 - 130
Chlorothalonil (Draconil, Bravo)	1.95	2.04		ug/L		105	70 - 130
Chlorpyrifos	1.95	2.07		ug/L		106	70 - 130
Chrysene	1.95	1.80		ug/L		92	70 - 130
delta-BHC	1.95	1.96		ug/L		101	70 - 130
Di(2-ethylhexyl)adipate	1.95	2.22		ug/L		114	70 - 130
Dibenz(a,h)anthracene	1.95	1.93		ug/L		99	70 - 130
Diclorvos (DDVP)	1.95	1.94		ug/L		100	70 - 130
Dieldrin	1.95	1.92		ug/L		99	70 - 130
Diethylphthalate	1.95	2.07		ug/L		106	70 - 130
Dimethylphthalate	1.95	2.04		ug/L		105	70 - 130
Di-n-butyl phthalate	3.89	4.28		ug/L		110	70 - 130
Di-n-octyl phthalate	1.95	2.16		ug/L		111	70 - 130
Endosulfan I (Alpha)	1.95	1.88		ug/L		97	70 - 130
Endosulfan II (Beta)	1.95	1.97		ug/L		101	70 - 130
Endosulfan sulfate	1.95	2.02		ug/L		104	70 - 130
Endrin	1.95	2.01		ug/L		103	70 - 130
Endrin aldehyde	1.95	2.05		ug/L		105	60 - 130
EPTC	1.95	2.05		ug/L		105	70 - 130
Fluoranthene	1.95	2.03		ug/L		104	70 - 130
Fluorene	1.95	1.95		ug/L		100	70 - 130

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-177173-1  
SDG: Weekly: Halawa Wells Units 1&2 P1 (MS/MSD), Aiea  
Wells Pumps 1&2 P2

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

Lab Sample ID: LCS 380-181132/21-A

Matrix: Water

Analysis Batch: 181462

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 181132

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec	Limits
	Added	Result	Qualifier					
gamma-Chlordane	1.95	2.00		ug/L		103	70 - 130	
Heptachlor	1.95	1.99		ug/L		102	70 - 130	
Heptachlor epoxide (isomer B)	1.95	2.03		ug/L		104	70 - 130	
Hexachlorobenzene	1.95	2.00		ug/L		102	70 - 130	
Hexachlorocyclopentadiene	1.95	1.84		ug/L		94	70 - 130	
Indeno[1,2,3-cd]pyrene	1.95	2.02		ug/L		104	70 - 130	
Isophorone	1.95	1.99		ug/L		102	70 - 130	
Lindane	1.95	1.90		ug/L		98	70 - 130	
Malathion	1.95	1.99		ug/L		102	70 - 130	
Methoxychlor	1.95	1.88		ug/L		96	70 - 130	
Metolachlor	1.95	2.03		ug/L		104	70 - 130	
Molinate	1.95	2.02		ug/L		104	70 - 130	
Naphthalene	1.95	1.93		ug/L		99	70 - 130	
Parathion	1.95	2.15		ug/L		110	70 - 130	
Pendimethalin (Penoxaline)	1.95	1.91		ug/L		98	70 - 130	
Phenanthrene	1.95	1.92		ug/L		99	70 - 130	
Propachlor	1.95	2.11		ug/L		108	70 - 130	
Pyrene	1.95	2.02		ug/L		104	70 - 130	
Simazine	1.95	1.99		ug/L		102	70 - 130	
Terbacil	1.95	2.11		ug/L		108	70 - 130	
Terbuthylazine	1.95	2.12		ug/L		109	70 - 130	
Thiobencarb	1.95	2.07		ug/L		107	70 - 130	
trans-Nonachlor	1.95	1.86		ug/L		96	70 - 130	
Trifluralin	1.95	1.93		ug/L		99	70 - 130	

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

Lab Sample ID: LCSD 380-181132/22-A

Matrix: Water

Analysis Batch: 181462

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 181132

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	
								RPD	Limit
1-Methylnaphthalene	1.95	1.82		ug/L		94	70 - 130	1	20
2,4'-DDD	1.95	2.03		ug/L		105	70 - 130	3	20
2,4'-DDE	1.95	2.08		ug/L		107	70 - 130	3	20
2,4'-DDT	1.95	1.98		ug/L		102	70 - 130	1	20
2,4-Dinitrotoluene	1.95	2.06		ug/L		106	70 - 130	7	20
2,6-Dinitrotoluene	1.95	2.10		ug/L		108	70 - 130	8	20
2-Methylnaphthalene	1.95	1.84		ug/L		94	70 - 130	1	20
4,4'-DDD	1.95	2.05		ug/L		105	70 - 130	2	20
4,4'-DDE	1.95	2.09		ug/L		107	70 - 130	2	20
4,4'-DDT	1.95	1.84		ug/L		95	70 - 130	3	20
Acenaphthene	1.95	1.89		ug/L		97	70 - 130	1	20
Acenaphthylene	1.95	1.84		ug/L		94	70 - 130	1	20

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# QC Sample Results

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

Job ID: 380-177173-1  
SDG: Weekly: Halawa Wells Units 1&2 P1 (MS/MSD), Aiea  
Wells Pumps 1&2 P2

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

Lab Sample ID: LCSD 380-181132/22-A

Matrix: Water

Analysis Batch: 181462

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 181132

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	RPD
	Added	Result	Qualifier				Limits		Limit
Acetochlor	1.95	2.14		ug/L		110	70 - 130	0	20
Alachlor	1.95	2.19		ug/L		112	70 - 130	3	20
alpha-BHC	1.95	2.04		ug/L		105	70 - 130	4	20
alpha-Chlordane	1.95	2.02		ug/L		104	70 - 130	3	20
Anthracene	1.95	1.93		ug/L		99	70 - 130	2	20
Atrazine	1.95	2.17		ug/L		111	70 - 130	8	20
Benz(a)anthracene	1.95	1.81		ug/L		93	70 - 130	3	20
Benzo[a]pyrene	1.95	1.86		ug/L		95	70 - 130	1	20
Benzo[b]fluoranthene	1.95	1.93		ug/L		99	70 - 130	1	20
Benzo[g,h,i]perylene	1.95	1.95		ug/L		100	70 - 130	0	20
Benzo[k]fluoranthene	1.95	1.90		ug/L		98	70 - 130	5	20
beta-BHC	1.95	1.99		ug/L		102	70 - 130	2	20
Bis(2-ethylhexyl) phthalate	1.95	2.16		ug/L		111	70 - 130	2	20
Bromacil	1.95	2.24		ug/L		115	70 - 130	6	20
Butachlor	1.95	2.11		ug/L		109	70 - 130	1	20
Butylbenzylphthalate	1.95	2.22		ug/L		114	70 - 130	4	20
Chlorobenzilate	1.95	2.20		ug/L		113	70 - 130	1	20
Chloroneb	1.95	1.86		ug/L		96	70 - 130	3	20
Chlorothalonil (Draconil, Bravo)	1.95	2.17		ug/L		112	70 - 130	7	20
Chlorpyrifos	1.95	2.15		ug/L		110	70 - 130	4	20
Chrysene	1.95	1.80		ug/L		93	70 - 130	0	20
delta-BHC	1.95	2.00		ug/L		103	70 - 130	2	20
Di(2-ethylhexyl)adipate	1.95	2.28		ug/L		117	70 - 130	3	20
Dibenz(a,h)anthracene	1.95	1.95		ug/L		100	70 - 130	1	20
Diclorvos (DDVP)	1.95	2.08		ug/L		107	70 - 130	7	20
Dieldrin	1.95	1.97		ug/L		101	70 - 130	3	20
Diethylphthalate	1.95	2.17		ug/L		111	70 - 130	5	20
Dimethylphthalate	1.95	2.14		ug/L		110	70 - 130	5	20
Di-n-butyl phthalate	3.89	4.41		ug/L		113	70 - 130	3	20
Di-n-octyl phthalate	1.95	2.18		ug/L		112	70 - 130	1	20
Endosulfan I (Alpha)	1.95	1.90		ug/L		98	70 - 130	1	20
Endosulfan II (Beta)	1.95	1.95		ug/L		100	70 - 130	1	20
Endosulfan sulfate	1.95	2.07		ug/L		107	70 - 130	3	20
Endrin	1.95	2.09		ug/L		108	70 - 130	4	20
Endrin aldehyde	1.95	2.03		ug/L		104	60 - 130	1	20
EPTC	1.95	2.09		ug/L		107	70 - 130	2	20
Fluoranthene	1.95	2.06		ug/L		106	70 - 130	1	20
Fluorene	1.95	1.96		ug/L		101	70 - 130	1	20
gamma-Chlordane	1.95	2.07		ug/L		106	70 - 130	3	20
Heptachlor	1.95	2.10		ug/L		108	70 - 130	5	20
Heptachlor epoxide (isomer B)	1.95	2.03		ug/L		104	70 - 130	0	20
Hexachlorobenzene	1.95	2.02		ug/L		104	70 - 130	1	20
Hexachlorocyclopentadiene	1.95	1.92		ug/L		99	70 - 130	4	20
Indeno[1,2,3-cd]pyrene	1.95	2.04		ug/L		105	70 - 130	1	20
Isophorone	1.95	2.03		ug/L		105	70 - 130	2	20
Lindane	1.95	1.96		ug/L		101	70 - 130	3	20
Malathion	1.95	2.07		ug/L		106	70 - 130	4	20
Methoxychlor	1.95	1.96		ug/L		101	70 - 130	4	20

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-177173-1  
SDG: Weekly: Halawa Wells Units 1&2 P1 (MS/MSD), Aiea  
Wells Pumps 1&2 P2

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

Lab Sample ID: LCSD 380-181132/22-A

Matrix: Water

Analysis Batch: 181462

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 181132

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	RPD	Limit
	Added	Result	Qualifier				Limits			
Metolachlor	1.95	2.03		ug/L		104	70 - 130	0		20
Molinate	1.95	2.10		ug/L		108	70 - 130	4		20
Naphthalene	1.95	1.92		ug/L		98	70 - 130	1		20
Parathion	1.95	2.23		ug/L		115	70 - 130	4		20
Pendimethalin (Penoxaline)	1.95	2.00		ug/L		103	70 - 130	5		20
Phenanthrene	1.95	1.92		ug/L		99	70 - 130	0		20
Propachlor	1.95	2.20		ug/L		113	70 - 130	4		20
Pyrene	1.95	2.03		ug/L		104	70 - 130	1		20
Simazine	1.95	2.13		ug/L		109	70 - 130	7		20
Terbacil	1.95	2.28		ug/L		117	70 - 130	8		20
Terbutylazine	1.95	2.23		ug/L		115	70 - 130	5		20
Thiobencarb	1.95	2.18		ug/L		112	70 - 130	5		20
trans-Nonachlor	1.95	1.87		ug/L		96	70 - 130	0		20
Trifluralin	1.95	2.02		ug/L		104	70 - 130	4		20

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	99		70 - 130
Perylene-d12	96		70 - 130
Triphenylphosphate	108		70 - 130

Lab Sample ID: MRL 380-181132/20-A

Matrix: Water

Analysis Batch: 181462

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 181132

Analyte	Spike	MRL	MRL	Unit	D	%Rec	%Rec	RPD	RPD	Limit
	Added	Result	Qualifier				Limits			
1-Methylnaphthalene	0.0975	0.124		ug/L		127	50 - 150			
2,4'-DDD	0.0975	0.0949	J	ug/L		97	50 - 150			
2,4'-DDE	0.0975	0.106		ug/L		109	50 - 150			
2,4'-DDT	0.0975	0.100		ug/L		103	50 - 150			
2,4-Dinitrotoluene	0.0975	0.105		ug/L		108	50 - 150			
2,6-Dinitrotoluene	0.0975	0.121		ug/L		124	50 - 150			
2-Methylnaphthalene	0.0975	0.114		ug/L		117	50 - 150			
4,4'-DDD	0.0975	0.107		ug/L		110	50 - 150			
4,4'-DDE	0.0975	0.0956	J	ug/L		98	50 - 150			
4,4'-DDT	0.0975	0.111		ug/L		114	50 - 150			
Acenaphthene	0.0975	0.0947	J	ug/L		97	50 - 150			
Acenaphthylene	0.0975	0.0942	J	ug/L		97	50 - 150			
Acetochlor	0.0975	0.130		ug/L		133	50 - 150			
Alachlor	0.0487	0.0572		ug/L		117	50 - 150			
alpha-BHC	0.0975	0.116		ug/L		119	50 - 150			
alpha-Chlordane	0.0244	<0.028		ug/L		111	50 - 150			
Anthracene	0.0195	0.0239		ug/L		123	50 - 150			
Atrazine	0.0487	0.0612		ug/L		126	50 - 150			
Benz(a)anthracene	0.0487	0.0555		ug/L		114	50 - 150			
Benzo[a]pyrene	0.0195	0.0226		ug/L		116	50 - 150			
Benzo[b]fluoranthene	0.0195	0.0216		ug/L		111	50 - 150			
Benzo[g,h,i]perylene	0.0487	0.0488	J	ug/L		100	50 - 150			

# QC Sample Results

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

Job ID: 380-177173-1  
SDG: Weekly: Halawa Wells Units 1&2 P1 (MS/MSD), Aiea  
Wells Pumps 1&2 P2

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

Lab Sample ID: MRL 380-181132/20-A

Matrix: Water

Analysis Batch: 181462

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 181132

Analyte	Spike	MRL	MRL	Unit	D	%Rec	%Rec Limits
	Added	Result	Qualifier				
Benzo[k]fluoranthene	0.0195	0.0230		ug/L		118	50 - 150
beta-BHC	0.0975	0.124		ug/L		127	50 - 150
Bis(2-ethylhexyl) phthalate	0.585	0.699		ug/L		120	50 - 150
Bromacil	0.0975	0.142		ug/L		146	50 - 150
Butachlor	0.0487	0.0705		ug/L		145	50 - 150
Butylbenzylphthalate	0.487	0.628		ug/L		129	50 - 150
Chlorobenzilate	0.0975	0.125		ug/L		128	50 - 150
Chloroneb	0.0975	0.117		ug/L		120	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0975	0.0944	J	ug/L		97	50 - 150
Chlorpyrifos	0.0487	0.0583		ug/L		120	50 - 150
Chrysene	0.0195	0.0212		ug/L		109	50 - 150
delta-BHC	0.0975	0.111		ug/L		114	50 - 150
Di(2-ethylhexyl)adipate	0.585	0.764		ug/L		131	50 - 150
Dibenz(a,h)anthracene	0.0487	0.0498		ug/L		102	50 - 150
Diclorvos (DDVP)	0.0487	0.0639		ug/L		131	50 - 150
Dieldrin	0.00975	0.0111		ug/L		114	50 - 150
Diethylphthalate	0.487	0.612		ug/L		126	50 - 150
Dimethylphthalate	0.487	0.592		ug/L		122	50 - 150
Di-n-butyl phthalate	0.487	0.659	J	ug/L		135	49 - 243
Di-n-octyl phthalate	0.0975	0.104		ug/L		107	50 - 150
Endosulfan I (Alpha)	0.0975	0.100		ug/L		103	50 - 150
Endosulfan II (Beta)	0.0975	0.122		ug/L		125	50 - 150
Endosulfan sulfate	0.0975	0.0938	J	ug/L		96	50 - 150
Endrin	0.00975	0.0115		ug/L		118	50 - 150
Endrin aldehyde	0.0975	0.128		ug/L		131	50 - 150
EPTC	0.0975	0.114		ug/L		117	50 - 150
Fluoranthene	0.0975	0.116		ug/L		119	50 - 150
Fluorene	0.0487	0.0587		ug/L		120	50 - 150
gamma-Chlordane	0.0244	0.0281	J	ug/L		115	50 - 150
Heptachlor	0.00975	0.0102		ug/L		104	50 - 150
Heptachlor epoxide (isomer B)	0.00975	0.0115		ug/L		118	50 - 150
Hexachlorobenzene	0.0487	0.0510		ug/L		105	50 - 150
Hexachlorocyclopentadiene	0.0487	0.0454	J	ug/L		93	50 - 150
Indeno[1,2,3-cd]pyrene	0.0487	0.0534		ug/L		109	50 - 150
Isophorone	0.0975	0.126		ug/L		130	50 - 150
Lindane	0.00975	0.0104		ug/L		107	50 - 150
Malathion	0.0975	0.120		ug/L		123	50 - 150
Methoxychlor	0.0487	0.0576		ug/L		118	50 - 150
Metolachlor	0.0487	0.0664		ug/L		136	50 - 150
Molinate	0.0975	0.119		ug/L		122	50 - 150
Naphthalene	0.0975	0.110		ug/L		113	50 - 150
Parathion	0.0975	0.102		ug/L		105	50 - 150
Pendimethalin (Penoxaline)	0.0975	0.0958	J	ug/L		98	50 - 150
Phenanthrene	0.0390	0.0432		ug/L		111	50 - 150
Propachlor	0.0487	0.0650		ug/L		133	50 - 150
Pyrene	0.0487	0.0565		ug/L		116	50 - 150
Simazine	0.0487	0.0527		ug/L		108	50 - 150
Terbacil	0.0975	0.139		ug/L		143	50 - 150

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-177173-1  
SDG: Weekly: Halawa Wells Units 1&2 P1 (MS/MSD), Aiea  
Wells Pumps 1&2 P2

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

Lab Sample ID: MRL 380-181132/20-A

Matrix: Water

Analysis Batch: 181462

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 181132

Analyte	Spike	MRL	MRL	Unit	D	%Rec	%Rec Limits
	Added	Result	Qualifier				
Terbutylazine	0.0975	0.122		ug/L		125	50 - 150
Thiobencarb	0.0975	0.120		ug/L		123	50 - 150
trans-Nonachlor	0.0244	0.0260	J	ug/L		107	50 - 150
Trifluralin	0.0975	0.107		ug/L		110	50 - 150

Surrogate	MRL	MRL	Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	99		70 - 130
Perylene-d12	86		70 - 130
Triphenylphosphate	102		70 - 130

Lab Sample ID: 380-177804-A-3-B MS

Matrix: Water

Analysis Batch: 181462

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 181132

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
1-Methylnaphthalene	<0.098		1.94	1.76		ug/L		90	70 - 130
2,4'-DDD	<0.098		1.94	2.09		ug/L		107	70 - 130
2,4'-DDE	<0.098		1.94	2.01		ug/L		103	70 - 130
2,4'-DDT	<0.098		1.94	2.04		ug/L		105	70 - 130
2,4-Dinitrotoluene	<0.098		1.94	2.27		ug/L		117	70 - 130
2,6-Dinitrotoluene	<0.098		1.94	2.20		ug/L		113	70 - 130
2-Methylnaphthalene	<0.098		1.94	1.81		ug/L		93	70 - 130
4,4'-DDD	<0.098		1.94	2.17		ug/L		112	70 - 130
4,4'-DDE	<0.098		1.94	1.97		ug/L		102	70 - 130
4,4'-DDT	<0.098		1.94	1.83		ug/L		94	70 - 130
Acenaphthene	<0.098		1.94	1.89		ug/L		97	70 - 130
Acenaphthylene	<0.098		1.94	1.99		ug/L		103	70 - 130
Acetochlor	<0.098		1.94	2.14		ug/L		110	70 - 130
Alachlor	<0.049		1.94	2.21		ug/L		113	70 - 130
alpha-BHC	<0.098		1.94	1.97		ug/L		101	70 - 130
alpha-Chlordane	<0.049		1.94	2.03		ug/L		104	70 - 130
Anthracene	<0.020		1.94	1.97		ug/L		101	70 - 130
Atrazine	<0.049		1.94	1.93		ug/L		99	70 - 130
Benz(a)anthracene	<0.049		1.94	1.90		ug/L		98	70 - 130
Benzo[a]pyrene	<0.020		1.94	2.13		ug/L		110	70 - 130
Benzo[b]fluoranthene	<0.020		1.94	2.08		ug/L		107	70 - 130
Benzo[g,h,i]perylene	<0.049		1.94	1.91		ug/L		98	70 - 130
Benzo[k]fluoranthene	<0.020		1.94	1.98		ug/L		102	70 - 130
beta-BHC	<0.098		1.94	2.06		ug/L		106	70 - 130
Bis(2-ethylhexyl) phthalate	<0.59		1.94	1.79		ug/L		92	70 - 130
Bromacil	<0.098		1.94	2.27		ug/L		117	70 - 130
Butachlor	<0.049		1.94	2.20		ug/L		113	70 - 130
Butylbenzylphthalate	<0.49		1.94	2.33		ug/L		120	70 - 130
Chlorobenzilate	<0.098		1.94	2.36		ug/L		121	70 - 130
Chloroneb	<0.098		1.94	1.84		ug/L		95	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.098		1.94	2.27		ug/L		117	70 - 130
Chlorpyrifos	<0.049		1.94	2.18		ug/L		112	70 - 130

# QC Sample Results

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

Job ID: 380-177173-1  
SDG: Weekly: Halawa Wells Units 1&2 P1 (MS/MSD), Aiea  
Wells Pumps 1&2 P2

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

Lab Sample ID: 380-177804-A-3-B MS

Client Sample ID: Matrix Spike

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 181462

Prep Batch: 181132

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
Chrysene	<0.020		1.94	1.87		ug/L		96	70 - 130
delta-BHC	<0.098		1.94	1.94		ug/L		100	70 - 130
Di(2-ethylhexyl)adipate	<0.59		1.94	1.92		ug/L		99	70 - 130
Dibenz(a,h)anthracene	<0.049		1.94	1.91		ug/L		98	70 - 130
Diclorvos (DDVP)	<0.049		1.94	2.02		ug/L		104	70 - 130
Dieldrin	<0.0098		1.94	2.06		ug/L		106	70 - 130
Diethylphthalate	<0.49		1.94	2.23		ug/L		112	70 - 130
Dimethylphthalate	<0.49		1.94	2.15		ug/L		110	70 - 130
Di-n-butyl phthalate	<0.98		3.89	4.70		ug/L		112	70 - 130
Di-n-octyl phthalate	<0.098		1.94	1.65		ug/L		85	70 - 130
Endosulfan I (Alpha)	<0.098		1.94	2.04		ug/L		105	70 - 130
Endosulfan II (Beta)	<0.098		1.94	1.93		ug/L		99	70 - 130
Endosulfan sulfate	<0.098		1.94	2.23		ug/L		114	70 - 130
Endrin	<0.0098		1.94	1.95		ug/L		100	70 - 130
Endrin aldehyde	<0.098	F1	1.94	0.768	F1	ug/L		39	60 - 130
EPTC	<0.098		1.94	2.02		ug/L		104	70 - 130
Fluoranthene	<0.098		1.94	2.16		ug/L		111	70 - 130
Fluorene	<0.049		1.94	1.97		ug/L		101	70 - 130
gamma-Chlordane	<0.049		1.94	2.10		ug/L		108	70 - 130
Heptachlor	<0.0098		1.94	2.14		ug/L		110	70 - 130
Heptachlor epoxide (isomer B)	<0.0098		1.94	2.03		ug/L		105	70 - 130
Hexachlorobenzene	<0.049		1.94	2.01		ug/L		104	70 - 130
Hexachlorocyclopentadiene	<0.049		1.94	1.95		ug/L		100	70 - 130
Indeno[1,2,3-cd]pyrene	<0.049		1.94	2.06		ug/L		106	70 - 130
Isophorone	<0.098		1.94	1.95		ug/L		100	70 - 130
Lindane	<0.0098		1.94	1.94		ug/L		100	70 - 130
Malathion	<0.098		1.94	2.14		ug/L		110	70 - 130
Methoxychlor	<0.049		1.94	2.19		ug/L		113	70 - 130
Metolachlor	<0.049		1.94	2.05		ug/L		105	70 - 130
Molinate	<0.098		1.94	2.09		ug/L		107	70 - 130
Naphthalene	<0.098		1.94	1.86		ug/L		95	70 - 130
Parathion	<0.098	F1	1.94	2.37		ug/L		122	70 - 130
Pendimethalin (Penoxaline)	<0.098	F1	1.94	2.46		ug/L		126	70 - 130
Phenanthrene	<0.039		1.94	1.93		ug/L		99	70 - 130
Propachlor	<0.049		1.94	2.22		ug/L		114	70 - 130
Pyrene	<0.049		1.94	2.12		ug/L		109	70 - 130
Simazine	<0.049		1.94	1.80		ug/L		93	70 - 130
Terbacil	<0.098		1.94	2.17		ug/L		111	70 - 130
Terbutylazine	<0.098		1.94	2.08		ug/L		107	70 - 130
Thiobencarb	<0.098		1.94	2.23		ug/L		115	70 - 130
trans-Nonachlor	<0.049		1.94	1.86		ug/L		96	70 - 130
Trifluralin	<0.098		1.94	2.34		ug/L		120	70 - 130

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	96		70 - 130
Perylene-d12	101		70 - 130
Triphenylphosphate	114		70 - 130

# QC Sample Results

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

Job ID: 380-177173-1  
SDG: Weekly: Halawa Wells Units 1&2 P1 (MS/MSD), Aiea  
Wells Pumps 1&2 P2

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

**Lab Sample ID: 380-177804-A-3-C MSD**

**Matrix: Water**

**Analysis Batch: 181462**

**Client Sample ID: Matrix Spike Duplicate**

**Prep Type: Total/NA**

**Prep Batch: 181132**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
1-Methylnaphthalene	<0.098		1.98	1.86		ug/L		93	70 - 130	5	20
2,4'-DDD	<0.098		1.98	2.19		ug/L		111	70 - 130	5	20
2,4'-DDE	<0.098		1.98	2.08		ug/L		105	70 - 130	3	20
2,4'-DDT	<0.098		1.98	2.11		ug/L		107	70 - 130	4	20
2,4-Dinitrotoluene	<0.098		1.98	2.43		ug/L		123	70 - 130	7	20
2,6-Dinitrotoluene	<0.098		1.98	2.38		ug/L		120	70 - 130	8	20
2-Methylnaphthalene	<0.098		1.98	1.89		ug/L		95	70 - 130	4	20
4,4'-DDD	<0.098		1.98	2.27		ug/L		115	70 - 130	5	20
4,4'-DDE	<0.098		1.98	2.06		ug/L		104	70 - 130	4	20
4,4'-DDT	<0.098		1.98	1.91		ug/L		97	70 - 130	4	20
Acenaphthene	<0.098		1.98	1.96		ug/L		99	70 - 130	4	20
Acenaphthylene	<0.098		1.98	2.12		ug/L		107	70 - 130	6	20
Acetochlor	<0.098		1.98	2.28		ug/L		115	70 - 130	6	20
Alachlor	<0.049		1.98	2.33		ug/L		118	70 - 130	5	20
alpha-BHC	<0.098		1.98	2.00		ug/L		101	70 - 130	1	20
alpha-Chlordane	<0.049		1.98	2.14		ug/L		108	70 - 130	5	20
Anthracene	<0.020		1.98	2.06		ug/L		104	70 - 130	5	20
Atrazine	<0.049		1.98	1.98		ug/L		100	70 - 130	3	20
Benz(a)anthracene	<0.049		1.98	2.01		ug/L		102	70 - 130	6	20
Benzo[a]pyrene	<0.020		1.98	2.21		ug/L		112	70 - 130	4	20
Benzo[b]fluoranthene	<0.020		1.98	2.17		ug/L		110	70 - 130	4	20
Benzo[g,h,i]perylene	<0.049		1.98	1.92		ug/L		97	70 - 130	1	20
Benzo[k]fluoranthene	<0.020		1.98	2.01		ug/L		102	70 - 130	2	20
beta-BHC	<0.098		1.98	2.08		ug/L		105	70 - 130	1	20
Bis(2-ethylhexyl) phthalate	<0.59		1.98	1.89		ug/L		96	70 - 130	6	20
Bromacil	<0.098		1.98	2.43		ug/L		123	70 - 130	7	20
Butachlor	<0.049		1.98	2.34		ug/L		118	70 - 130	6	20
Butylbenzylphthalate	<0.49		1.98	2.46		ug/L		124	70 - 130	5	20
Chlorobenzilate	<0.098		1.98	2.47		ug/L		125	70 - 130	5	20
Chloroneb	<0.098		1.98	1.91		ug/L		97	70 - 130	4	20
Chlorothalonil (Draconil, Bravo)	<0.098		1.98	2.36		ug/L		120	70 - 130	4	20
Chlorpyrifos	<0.049		1.98	2.25		ug/L		114	70 - 130	3	20
Chrysene	<0.020		1.98	1.91		ug/L		97	70 - 130	2	20
delta-BHC	<0.098		1.98	1.96		ug/L		99	70 - 130	1	20
Di(2-ethylhexyl)adipate	<0.59		1.98	2.02		ug/L		102	70 - 130	5	20
Dibenz(a,h)anthracene	<0.049		1.98	2.01		ug/L		102	70 - 130	5	20
Diclorvos (DDVP)	<0.049		1.98	2.19		ug/L		111	70 - 130	8	20
Dieldrin	<0.0098		1.98	2.11		ug/L		107	70 - 130	2	20
Diethylphthalate	<0.49		1.98	2.31		ug/L		115	70 - 130	3	20
Dimethylphthalate	<0.49		1.98	2.24		ug/L		114	70 - 130	4	20
Di-n-butyl phthalate	<0.98		3.95	4.99		ug/L		118	70 - 130	6	20
Di-n-octyl phthalate	<0.098		1.98	1.72		ug/L		87	70 - 130	4	20
Endosulfan I (Alpha)	<0.098		1.98	2.05		ug/L		104	70 - 130	1	20
Endosulfan II (Beta)	<0.098		1.98	2.09		ug/L		106	70 - 130	8	20
Endosulfan sulfate	<0.098		1.98	2.29		ug/L		116	70 - 130	3	20
Endrin	<0.0098		1.98	2.06		ug/L		104	70 - 130	6	20
Endrin aldehyde	<0.098	F1	1.98	0.796	F1	ug/L		40	60 - 130	4	20

# QC Sample Results

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

Job ID: 380-177173-1  
SDG: Weekly: Halawa Wells Units 1&2 P1 (MS/MSD), Aiea  
Wells Pumps 1&2 P2

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

Lab Sample ID: 380-177804-A-3-C MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 181462

Prep Batch: 181132

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
EPTC	<0.098		1.98	2.14		ug/L		108	70 - 130	6	20
Fluoranthene	<0.098		1.98	2.26		ug/L		114	70 - 130	4	20
Fluorene	<0.049		1.98	2.03		ug/L		103	70 - 130	3	20
gamma-Chlordane	<0.049		1.98	2.20		ug/L		112	70 - 130	5	20
Heptachlor	<0.0098		1.98	2.24		ug/L		113	70 - 130	4	20
Heptachlor epoxide (isomer B)	<0.0098		1.98	2.14		ug/L		108	70 - 130	5	20
Hexachlorobenzene	<0.049		1.98	2.06		ug/L		104	70 - 130	2	20
Hexachlorocyclopentadiene	<0.049		1.98	2.09		ug/L		106	70 - 130	7	20
Indeno[1,2,3-cd]pyrene	<0.049		1.98	2.15		ug/L		109	70 - 130	4	20
Isophorone	<0.098		1.98	2.14		ug/L		109	70 - 130	9	20
Lindane	<0.0098		1.98	1.99		ug/L		101	70 - 130	3	20
Malathion	<0.098		1.98	2.28		ug/L		115	70 - 130	6	20
Methoxychlor	<0.049		1.98	2.33		ug/L		118	70 - 130	6	20
Metolachlor	<0.049		1.98	2.18		ug/L		110	70 - 130	6	20
Molinate	<0.098		1.98	2.20		ug/L		111	70 - 130	5	20
Naphthalene	<0.098		1.98	1.94		ug/L		98	70 - 130	5	20
Parathion	<0.098	F1	1.98	2.62	F1	ug/L		133	70 - 130	10	20
Pendimethalin (Penoxaline)	<0.098	F1	1.98	2.68	F1	ug/L		136	70 - 130	9	20
Phenanthrene	<0.039		1.98	2.03		ug/L		103	70 - 130	5	20
Propachlor	<0.049		1.98	2.32		ug/L		118	70 - 130	5	20
Pyrene	<0.049		1.98	2.21		ug/L		112	70 - 130	4	20
Simazine	<0.049		1.98	1.88		ug/L		95	70 - 130	4	20
Terbacil	<0.098		1.98	2.37		ug/L		120	70 - 130	9	20
Terbutylazine	<0.098		1.98	2.14		ug/L		108	70 - 130	3	20
Thiobencarb	<0.098		1.98	2.35		ug/L		119	70 - 130	5	20
trans-Nonachlor	<0.049		1.98	1.98		ug/L		100	70 - 130	6	20
Trifluralin	<0.098		1.98	2.53		ug/L		128	70 - 130	8	20
		<b>MSD</b>	<b>MSD</b>								
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>								
2-Nitro-m-xylene	98		70 - 130								
Perylene-d12	101		70 - 130								
Triphenylphosphate	118		70 - 130								

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

Lab Sample ID: MB 570-642969/1-A

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 646232

Prep Batch: 642969

Tentatively Identified Compound	MB	MB	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
	Est. Result	Qualifier							
Tentatively Identified Compound	None		ug/L			N/A	10/20/25 06:11	10/26/25 04:12	1
		<b>MB</b>	<b>MB</b>						
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2,4,6-Tribromophenol (Surr)	89		33 - 139				10/20/25 06:11	10/26/25 04:12	1
2-Fluorobiphenyl (Surr)	87		33 - 126				10/20/25 06:11	10/26/25 04:12	1
2-Fluorophenol (Surr)	60		12 - 120				10/20/25 06:11	10/26/25 04:12	1
Nitrobenzene-d5 (Surr)	93		36 - 120				10/20/25 06:11	10/26/25 04:12	1

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# QC Sample Results

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

Job ID: 380-177173-1  
SDG: Weekly: Halawa Wells Units 1&2 P1 (MS/MSD), Aiea  
Wells Pumps 1&2 P2

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

Lab Sample ID: MB 570-642969/1-A  
Matrix: Water  
Analysis Batch: 646232

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 642969

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Phenol-d6 (Surr)	34		10 - 120	10/20/25 06:11	10/26/25 04:12	1
p-Terphenyl-d14 (Surr)	83		47 - 131	10/20/25 06:11	10/26/25 04:12	1

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

Lab Sample ID: MB 570-642969/1-A  
Matrix: Water  
Analysis Batch: 646236

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 642969

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.20		0.20	ug/L		10/20/25 06:11	10/26/25 01:40	1
2-Methylnaphthalene	<0.20		0.20	ug/L		10/20/25 06:11	10/26/25 01:40	1
Acenaphthene	<0.20		0.20	ug/L		10/20/25 06:11	10/26/25 01:40	1
Acenaphthylene	<0.20		0.20	ug/L		10/20/25 06:11	10/26/25 01:40	1
Anthracene	<0.20		0.20	ug/L		10/20/25 06:11	10/26/25 01:40	1
Benzo[a]anthracene	<0.20		0.20	ug/L		10/20/25 06:11	10/26/25 01:40	1
Benzo[a]pyrene	<0.20		0.20	ug/L		10/20/25 06:11	10/26/25 01:40	1
Benzo[b]fluoranthene	<0.20		0.20	ug/L		10/20/25 06:11	10/26/25 01:40	1
Benzo[g,h,i]perylene	<0.20		0.20	ug/L		10/20/25 06:11	10/26/25 01:40	1
Benzo[k]fluoranthene	<0.20		0.20	ug/L		10/20/25 06:11	10/26/25 01:40	1
Chrysene	<0.20		0.20	ug/L		10/20/25 06:11	10/26/25 01:40	1
Dibenz(a,h)anthracene	<0.20		0.20	ug/L		10/20/25 06:11	10/26/25 01:40	1
Fluoranthene	<0.20		0.20	ug/L		10/20/25 06:11	10/26/25 01:40	1
Fluorene	<0.20		0.20	ug/L		10/20/25 06:11	10/26/25 01:40	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20	ug/L		10/20/25 06:11	10/26/25 01:40	1
Naphthalene	<0.20		0.20	ug/L		10/20/25 06:11	10/26/25 01:40	1
Phenanthrene	<0.20		0.20	ug/L		10/20/25 06:11	10/26/25 01:40	1
Pyrene	<0.20		0.20	ug/L		10/20/25 06:11	10/26/25 01:40	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	76		28 - 127	10/20/25 06:11	10/26/25 01:40	1
2-Fluorobiphenyl (Surr)	68		31 - 120	10/20/25 06:11	10/26/25 01:40	1
2-Fluorophenol (Surr)	50		17 - 120	10/20/25 06:11	10/26/25 01:40	1
Nitrobenzene-d5 (Surr)	78		27 - 120	10/20/25 06:11	10/26/25 01:40	1
Phenol-d6 (Surr)	33		10 - 120	10/20/25 06:11	10/26/25 01:40	1
p-Terphenyl-d14 (Surr)	73		45 - 120	10/20/25 06:11	10/26/25 01:40	1

Lab Sample ID: LCS 570-642969/2-A  
Matrix: Water  
Analysis Batch: 646236

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 642969

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	20.0	15.1		ug/L		76	47 - 120
2-Methylnaphthalene	20.0	14.9		ug/L		75	43 - 120
Acenaphthene	20.0	14.3		ug/L		71	60 - 132
Acenaphthylene	20.0	13.7		ug/L		68	54 - 126
Anthracene	20.0	13.1		ug/L		66	43 - 120

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# QC Sample Results

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

Job ID: 380-177173-1  
SDG: Weekly: Halawa Wells Units 1&2 P1 (MS/MSD), Aiea  
Wells Pumps 1&2 P2

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

Lab Sample ID: LCS 570-642969/2-A

Matrix: Water

Analysis Batch: 646236

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 642969

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec Limits
	Added	Result	Qualifier				
Benzo[a]anthracene	20.0	14.8		ug/L		74	42 - 133
Benzo[a]pyrene	20.0	11.1		ug/L		56	32 - 148
Benzo[b]fluoranthene	20.0	14.0		ug/L		70	42 - 140
Benzo[g,h,i]perylene	20.0	14.8		ug/L		74	1 - 195
Benzo[k]fluoranthene	20.0	13.4		ug/L		67	25 - 146
Chrysene	20.0	15.2		ug/L		76	44 - 140
Dibenz(a,h)anthracene	20.0	17.1		ug/L		85	1 - 200
Fluoranthene	20.0	15.5		ug/L		77	43 - 121
Fluorene	20.0	14.8		ug/L		74	70 - 120
Indeno[1,2,3-cd]pyrene	20.0	15.4		ug/L		77	1 - 151
Naphthalene	20.0	14.9		ug/L		74	36 - 120
Phenanthrene	20.0	14.6		ug/L		73	65 - 120
Pyrene	20.0	16.2		ug/L		81	70 - 120

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	78		28 - 127
2-Fluorobiphenyl (Surr)	71		31 - 120
2-Fluorophenol (Surr)	53		17 - 120
Nitrobenzene-d5 (Surr)	77		27 - 120
Phenol-d6 (Surr)	37		10 - 120
p-Terphenyl-d14 (Surr)	83		45 - 120

Lab Sample ID: LCSD 570-642969/3-A

Matrix: Water

Analysis Batch: 646236

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 642969

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec Limits	RPD	Limit
	Added	Result	Qualifier						
1-Methylnaphthalene	20.0	13.6		ug/L		68	47 - 120	11	20
2-Methylnaphthalene	20.0	13.4		ug/L		67	43 - 120	10	20
Acenaphthene	20.0	15.0		ug/L		75	60 - 132	5	29
Acenaphthylene	20.0	15.2		ug/L		76	54 - 126	11	45
Anthracene	20.0	14.8		ug/L		74	43 - 120	12	40
Benzo[a]anthracene	20.0	15.5		ug/L		78	42 - 133	5	32
Benzo[a]pyrene	20.0	15.0		ug/L		75	32 - 148	30	43
Benzo[b]fluoranthene	20.0	15.5		ug/L		78	42 - 140	11	43
Benzo[g,h,i]perylene	20.0	13.9		ug/L		69	1 - 195	6	61
Benzo[k]fluoranthene	20.0	15.3		ug/L		76	25 - 146	13	38
Chrysene	20.0	15.7		ug/L		78	44 - 140	3	53
Dibenz(a,h)anthracene	20.0	14.4		ug/L		72	1 - 200	17	75
Fluoranthene	20.0	16.2		ug/L		81	43 - 121	4	40
Fluorene	20.0	15.5		ug/L		78	70 - 120	5	23
Indeno[1,2,3-cd]pyrene	20.0	14.2		ug/L		71	1 - 151	8	60
Naphthalene	20.0	13.0		ug/L		65	36 - 120	13	39
Phenanthrene	20.0	15.0		ug/L		75	65 - 120	2	24
Pyrene	20.0	16.6		ug/L		83	70 - 120	3	30

# QC Sample Results

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

Job ID: 380-177173-1  
SDG: Weekly: Halawa Wells Units 1&2 P1 (MS/MSD), Aiea  
Wells Pumps 1&2 P2

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

**Lab Sample ID: LCSD 570-642969/3-A**

**Matrix: Water**

**Analysis Batch: 646236**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

**Prep Batch: 642969**

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	81		28 - 127
2-Fluorobiphenyl (Surr)	75		31 - 120
2-Fluorophenol (Surr)	58		17 - 120
Nitrobenzene d5 (Surr)	70		27 - 120
Phenol-d6 (Surr)	40		10 - 120
p-Terphenyl-d14 (Surr)	83		45 - 120

**Lab Sample ID: 380-177173-1 MS**

**Matrix: Drinking Water**

**Analysis Batch: 646236**

**Client Sample ID: HALAWA WELLS UNITS 1 & 2 (331-206-TP065)**

**Prep Type: Total/NA**

**Prep Batch: 642969**

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	%Rec	Limits
	Result	Qualifier		Result	Qualifier					
1-Methylnaphthalene	<0.19	F2	19.5	8.19		ug/L		42		36 - 120
2-Methylnaphthalene	<0.19	F2	19.5	8.02		ug/L		41		32 - 124
Acenaphthene	<0.19	F1 F2	19.5	8.72	F1	ug/L		45		47 - 145
Acenaphthylene	<0.19		19.5	9.00		ug/L		46		33 - 145
Anthracene	<0.19		19.5	8.84		ug/L		45		27 - 133
Benzo[a]anthracene	<0.19		19.5	9.14		ug/L		47		33 - 143
Benzo[a]pyrene	<0.19		19.5	8.73		ug/L		45		17 - 163
Benzo[b]fluoranthene	<0.19		19.5	8.91		ug/L		46		24 - 159
Benzo[g,h,i]perylene	<0.19		19.5	7.66		ug/L		39		1 - 219
Benzo[k]fluoranthene	<0.19		19.5	8.88		ug/L		46		11 - 162
Chrysene	<0.19		19.5	9.23		ug/L		47		17 - 168
Dibenz(a,h)anthracene	<0.19		19.5	7.89		ug/L		40		1 - 227
Fluoranthene	<0.19		19.5	9.71		ug/L		50		26 - 137
Fluorene	<0.19	F1 F2	19.5	9.31	F1	ug/L		48		59 - 121
Indeno[1,2,3-cd]pyrene	<0.19		19.5	7.75		ug/L		40		1 - 171
Naphthalene	<0.19		19.5	7.81		ug/L		40		21 - 133
Phenanthrene	<0.19	F1 F2	19.5	9.00	F1	ug/L		46		54 - 120
Pyrene	<0.19	F1	19.5	9.98	F1	ug/L		51		52 - 120

Surrogate	MS		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	48		28 - 127
2-Fluorobiphenyl (Surr)	44		31 - 120
2-Fluorophenol (Surr)	29		17 - 120
Nitrobenzene-d5 (Surr)	44		27 - 120
Phenol-d6 (Surr)	20		10 - 120
p-Terphenyl-d14 (Surr)	50		45 - 120

**Lab Sample ID: 380-177173-1 MSD**

**Matrix: Drinking Water**

**Analysis Batch: 646236**

**Client Sample ID: HALAWA WELLS UNITS 1 & 2 (331-206-TP065)**

**Prep Type: Total/NA**

**Prep Batch: 642969**

Analyte	Sample	Sample	Spike	MSD		Unit	D	%Rec	%Rec	Limits	RPD	
	Result	Qualifier		Result	Qualifier						RPD	Limit
1-Methylnaphthalene	<0.19	F2	19.4	15.9	F2	ug/L		82		36 - 120	64	30
2-Methylnaphthalene	<0.19	F2	19.4	15.8	F2	ug/L		81		32 - 124	65	30
Acenaphthene	<0.19	F1 F2	19.4	14.9	F2	ug/L		77		47 - 145	52	48

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-177173-1  
SDG: Weekly: Halawa Wells Units 1&2 P1 (MS/MSD), Aiea  
Wells Pumps 1&2 P2

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

**Lab Sample ID: 380-177173-1 MSD**

**Client Sample ID: HALAWA WELLS UNITS 1 & 2 (331-206-TP065)**

**Matrix: Drinking Water**

**Prep Type: Total/NA**

**Analysis Batch: 646236**

**Prep Batch: 642969**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Acenaphthylene	<0.19		19.4	14.7		ug/L		76	33 - 145	48	74
Anthracene	<0.19		19.4	14.6		ug/L		75	27 - 133	49	66
Benzo[a]anthracene	<0.19		19.4	15.5		ug/L		80	33 - 143	51	53
Benzo[a]pyrene	<0.19		19.4	14.3		ug/L		74	17 - 163	49	72
Benzo[b]fluoranthene	<0.19		19.4	15.1		ug/L		78	24 - 159	52	71
Benzo[g,h,i]perylene	<0.19		19.4	13.4		ug/L		69	1 - 219	54	97
Benzo[k]fluoranthene	<0.19		19.4	14.7		ug/L		76	11 - 162	49	63
Chrysene	<0.19		19.4	15.6		ug/L		80	17 - 168	51	87
Dibenz(a,h)anthracene	<0.19		19.4	13.9		ug/L		72	1 - 227	55	126
Fluoranthene	<0.19		19.4	16.4		ug/L		84	26 - 137	51	66
Fluorene	<0.19	F1 F2	19.4	15.1	F2	ug/L		78	59 - 121	47	38
Indeno[1,2,3-cd]pyrene	<0.19		19.4	13.7		ug/L		71	1 - 171	56	99
Naphthalene	<0.19		19.4	15.3		ug/L		79	21 - 133	65	65
Phenanthrene	<0.19	F1 F2	19.4	15.1	F2	ug/L		78	54 - 120	50	39
Pyrene	<0.19	F1	19.4	16.4		ug/L		85	52 - 120	49	49

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	84		28 - 127
2-Fluorobiphenyl (Surr)	75		31 - 120
2-Fluorophenol (Surr)	53		17 - 120
Nitrobenzene-d5 (Surr)	82		27 - 120
Phenol-d6 (Surr)	36		10 - 120
p-Terphenyl-d14 (Surr)	84		45 - 120

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

**Lab Sample ID: MB 570-642768/6**

**Client Sample ID: Method Blank**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 642768**

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
GRO (C6-C10)	<10		10	ug/L			10/19/25 12:46	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	91		38 - 134		10/19/25 12:46	1

**Lab Sample ID: LCS 570-642768/4**

**Client Sample ID: Lab Control Sample**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 642768**

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec	Limits
		Result	Qualifier				Limits	
Gasoline Range Organics (C4-C13)	400	370		ug/L		92	78 - 120	

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	95		38 - 134

# QC Sample Results

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

Job ID: 380-177173-1  
SDG: Weekly: Halawa Wells Units 1&2 P1 (MS/MSD), Aiea  
Wells Pumps 1&2 P2

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

**Lab Sample ID: LCSD 570-642768/5**  
**Matrix: Water**  
**Analysis Batch: 642768**

**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	374		ug/L		93	78 - 120	1	10
<b>Surrogate</b>		<b>%Recovery</b>	<b>Qualifier</b>				<b>Limits</b>		
4-Bromofluorobenzene (Surr)		93					38 - 134		

**Lab Sample ID: MRL 570-642768/3**  
**Matrix: Water**  
**Analysis Batch: 642768**

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (C4-C13)	10.0	<7.9		ug/L		75	50 - 150		
<b>Surrogate</b>		<b>%Recovery</b>	<b>Qualifier</b>				<b>Limits</b>		
4-Bromofluorobenzene (Surr)		92					38 - 134		

**Lab Sample ID: 380-177173-1 MS**  
**Matrix: Drinking Water**  
**Analysis Batch: 642768**

**Client Sample ID: HALAWA WELLS UNITS 1 & 2 (331-206-TP065)**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (C4-C13)	<10		400	363		ug/L		91	68 - 122		
<b>Surrogate</b>		<b>%Recovery</b>		<b>%Recovery</b>	<b>Qualifier</b>				<b>Limits</b>		
4-Bromofluorobenzene (Surr)		91							38 - 134		

**Lab Sample ID: 380-177173-1 MSD**  
**Matrix: Drinking Water**  
**Analysis Batch: 642768**

**Client Sample ID: HALAWA WELLS UNITS 1 & 2 (331-206-TP065)**  
**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	327		ug/L		82	68 - 122	10	18
<b>Surrogate</b>		<b>%Recovery</b>		<b>%Recovery</b>	<b>Qualifier</b>				<b>Limits</b>		
4-Bromofluorobenzene (Surr)		94							38 - 134		

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

**Lab Sample ID: MB 570-642248/1-A**  
**Matrix: Water**  
**Analysis Batch: 646397**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 642248**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<25		25	ug/L		10/17/25 15:31	10/26/25 17:58	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		10/17/25 15:31	10/26/25 17:58	1

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-177173-1  
SDG: Weekly: Halawa Wells Units 1&2 P1 (MS/MSD), Aiea  
Wells Pumps 1&2 P2

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

**Lab Sample ID: MB 570-642248/1-A**  
**Matrix: Water**  
**Analysis Batch: 646397**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 642248**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C8-C18	<25		25	ug/L		10/17/25 15:31	10/26/25 17:58	1
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	111		60 - 130			10/17/25 15:31	10/26/25 17:58	1

**Lab Sample ID: LCS 570-642248/2-A**  
**Matrix: Water**  
**Analysis Batch: 646397**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 642248**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
C10-C28	1600	1890		ug/L		118	56 - 127
Surrogate	%Recovery	LCS Qualifier	Limits				
n-Octacosane (Surr)	120		60 - 130				

**Lab Sample ID: LCSD 570-642248/3-A**  
**Matrix: Water**  
**Analysis Batch: 646397**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 642248**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28	1600	1660		ug/L		104	56 - 127	13	23
Surrogate	%Recovery	LCSD Qualifier	Limits						
n-Octacosane (Surr)	106		60 - 130						

**Lab Sample ID: MRL 570-642248/4-A**  
**Matrix: Water**  
**Analysis Batch: 646397**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 642248**

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
C10-C28	0.0200	0.0319	^3+	mg/L		160	50 - 150
Surrogate	%Recovery	MRL Qualifier	Limits				
n-Octacosane (Surr)	135		60 - 130				

**Lab Sample ID: 380-177173-1 MS**  
**Matrix: Drinking Water**  
**Analysis Batch: 646397**

**Client Sample ID: HALAWA WELLS UNITS 1 & 2 (331-206-TP065)**  
**Prep Type: Total/NA**  
**Prep Batch: 642248**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
C10-C28	<26	^3+	1670	1960		ug/L		118	70 - 130
Surrogate	%Recovery	MS Qualifier	Limits						
n-Octacosane (Surr)	120		60 - 130						

# QC Sample Results

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

Job ID: 380-177173-1  
 SDG: Weekly: Halawa Wells Units 1&2 P1 (MS/MSD), Aiea  
 Wells Pumps 1&2 P2

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

**Lab Sample ID: 380-177173-1 MSD**

**Matrix: Drinking Water**

**Analysis Batch: 646397**

**Client Sample ID: HALAWA WELLS UNITS 1 & 2 (331-206-TP065)**

**Prep Type: Total/NA**

**Prep Batch: 642248**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28	<26	^3+	1640	2040		ug/L		124	70 - 130	4	20
		<i>MSD</i>			<i>MSD</i>						
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>								
<i>n-Octacosane (Surr)</i>	121		60 - 130								

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# QC Association Summary

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

Job ID: 380-177173-1  
 SDG: Weekly: Halawa Wells Units 1&2 P1 (MS/MSD), Aiea  
 Wells Pumps 1&2 P2

## GC/MS Semi VOA

### Prep Batch: 181132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-177173-1	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP065)	Total/NA	Drinking Water	525.2	
380-177173-3	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP400)	Total/NA	Water	525.2	
MB 380-181132/19-A	Method Blank	Total/NA	Water	525.2	
LCS 380-181132/21-A	Lab Control Sample	Total/NA	Water	525.2	
LCSD 380-181132/22-A	Lab Control Sample Dup	Total/NA	Water	525.2	
MRL 380-181132/20-A	Lab Control Sample	Total/NA	Water	525.2	
380-177804-A-3-B MS	Matrix Spike	Total/NA	Water	525.2	
380-177804-A-3-C MSD	Matrix Spike Duplicate	Total/NA	Water	525.2	

### Analysis Batch: 181462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-177173-1	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP065)	Total/NA	Drinking Water	525.2	181132
380-177173-3	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP400)	Total/NA	Water	525.2	181132
MB 380-181132/19-A	Method Blank	Total/NA	Water	525.2	181132
LCS 380-181132/21-A	Lab Control Sample	Total/NA	Water	525.2	181132
LCSD 380-181132/22-A	Lab Control Sample Dup	Total/NA	Water	525.2	181132
MRL 380-181132/20-A	Lab Control Sample	Total/NA	Water	525.2	181132
380-177804-A-3-B MS	Matrix Spike	Total/NA	Water	525.2	181132
380-177804-A-3-C MSD	Matrix Spike Duplicate	Total/NA	Water	525.2	181132

### Prep Batch: 642969

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-177173-1	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP065)	Total/NA	Drinking Water	625.1	
380-177173-3	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP400)	Total/NA	Water	625.1	
MB 570-642969/1-A	Method Blank	Total/NA	Water	625.1	
LCS 570-642969/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 570-642969/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	
380-177173-1 MS	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Total/NA	Drinking Water	625.1	
380-177173-1 MSD	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Total/NA	Drinking Water	625.1	

### Analysis Batch: 646232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-177173-1	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP065)	Total/NA	Drinking Water	625.1	642969
380-177173-3	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP400)	Total/NA	Water	625.1	642969
MB 570-642969/1-A	Method Blank	Total/NA	Water	625.1	642969

### Analysis Batch: 646236

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-177173-1	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP065)	Total/NA	Drinking Water	625.1 SIM	642969
380-177173-3	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP400)	Total/NA	Water	625.1 SIM	642969
MB 570-642969/1-A	Method Blank	Total/NA	Water	625.1 SIM	642969
LCS 570-642969/2-A	Lab Control Sample	Total/NA	Water	625.1 SIM	642969
LCSD 570-642969/3-A	Lab Control Sample Dup	Total/NA	Water	625.1 SIM	642969
380-177173-1 MS	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Total/NA	Drinking Water	625.1 SIM	642969
380-177173-1 MSD	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Total/NA	Drinking Water	625.1 SIM	642969

# QC Association Summary

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

Job ID: 380-177173-1  
 SDG: Weekly: Halawa Wells Units 1&2 P1 (MS/MSD), Aiea  
 Wells Pumps 1&2 P2

## GC VOA

### Analysis Batch: 642768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-177173-1	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP065)	Total/NA	Drinking Water	8015B GRO LL	
380-177173-2	TB: HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Total/NA	Drinking Water	8015B GRO LL	
380-177173-3	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP400)	Total/NA	Water	8015B GRO LL	
380-177173-4	TB: AIEA WELLS PUMPS 1&2 (260) (331-203-TP400)	Total/NA	Water	8015B GRO LL	
MB 570-642768/6	Method Blank	Total/NA	Water	8015B GRO LL	
LCS 570-642768/4	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-642768/5	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	
MRL 570-642768/3	Lab Control Sample	Total/NA	Water	8015B GRO LL	
380-177173-1 MS	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Total/NA	Drinking Water	8015B GRO LL	
380-177173-1 MSD	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Total/NA	Drinking Water	8015B GRO LL	

## GC Semi VOA

### Prep Batch: 642248

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-177173-1	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP065)	Total/NA	Drinking Water	3510C	
380-177173-3	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP400)	Total/NA	Water	3510C	
MB 570-642248/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-642248/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-642248/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-642248/4-A	Lab Control Sample	Total/NA	Water	3510C	
380-177173-1 MS	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Total/NA	Drinking Water	3510C	
380-177173-1 MSD	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Total/NA	Drinking Water	3510C	

### Analysis Batch: 646397

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-177173-1	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP065)	Total/NA	Drinking Water	8015B	642248
380-177173-3	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP400)	Total/NA	Water	8015B	642248
MB 570-642248/1-A	Method Blank	Total/NA	Water	8015B	642248
LCS 570-642248/2-A	Lab Control Sample	Total/NA	Water	8015B	642248
LCSD 570-642248/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	642248
MRL 570-642248/4-A	Lab Control Sample	Total/NA	Water	8015B	642248
380-177173-1 MS	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Total/NA	Drinking Water	8015B	642248
380-177173-1 MSD	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Total/NA	Drinking Water	8015B	642248

# Lab Chronicle

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

Job ID: 380-177173-1  
 SDG: Weekly: Halawa Wells Units 1&2 P1 (MS/MSD), Aiea  
 Wells Pumps 1&2 P2

**Client Sample ID: HALAWA WELLS UNITS 1 & 2 P1  
 (331-206-TP065)**

**Lab Sample ID: 380-177173-1**

Date Collected: 10/13/25 10:28  
 Date Received: 10/15/25 10:27

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			181132	IQ42	EA POM	10/21/25 13:08
Total/NA	Analysis	525.2		1	181462	Q8LA	EA POM	10/22/25 16:42
Total/NA	Prep	625.1			642969	H1SH	EET CAL 4	10/20/25 06:11
Total/NA	Analysis	625.1		1	646232	PQS1	EET CAL 4	10/26/25 04:36
Total/NA	Prep	625.1			642969	H1SH	EET CAL 4	10/20/25 06:11
Total/NA	Analysis	625.1 SIM		1	646236	PQS1	EET CAL 4	10/26/25 03:32
Total/NA	Analysis	8015B GRO LL		1	642768	YD9V	EET CAL 4	10/19/25 13:32
Total/NA	Prep	3510C			642248	TVD6	EET CAL 4	10/17/25 15:32
Total/NA	Analysis	8015B		1	646397	H6FE	EET CAL 4	10/26/25 19:45

**Client Sample ID: TB: HALAWA WELLS UNITS 1 & 2  
 (331-206-TP065)**

**Lab Sample ID: 380-177173-2**

Date Collected: 10/13/25 10:28  
 Date Received: 10/15/25 10:27

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	642768	YD9V	EET CAL 4	10/19/25 18:21

**Client Sample ID: AIEA WELLS PUMPS 1&2 P2 (260)  
 (331-203-TP400)**

**Lab Sample ID: 380-177173-3**

Date Collected: 10/13/25 11:31  
 Date Received: 10/15/25 10:27

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			181132	IQ42	EA POM	10/21/25 13:08
Total/NA	Analysis	525.2		1	181462	Q8LA	EA POM	10/22/25 17:02
Total/NA	Prep	625.1			642969	H1SH	EET CAL 4	10/20/25 06:11
Total/NA	Analysis	625.1		1	646232	PQS1	EET CAL 4	10/26/25 05:00
Total/NA	Prep	625.1			642969	H1SH	EET CAL 4	10/20/25 06:11
Total/NA	Analysis	625.1 SIM		1	646236	PQS1	EET CAL 4	10/26/25 10:38
Total/NA	Analysis	8015B GRO LL		1	642768	YD9V	EET CAL 4	10/19/25 16:33
Total/NA	Prep	3510C			642248	TVD6	EET CAL 4	10/17/25 15:32
Total/NA	Analysis	8015B		1	646397	H6FE	EET CAL 4	10/26/25 20:06

**Client Sample ID: TB: AIEA WELLS PUMPS 1&2 (260)  
 (331-203-TP400)**

**Lab Sample ID: 380-177173-4**

Date Collected: 10/13/25 11:31  
 Date Received: 10/15/25 10:27

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	642768	YD9V	EET CAL 4	10/19/25 21:22

# Lab Chronicle

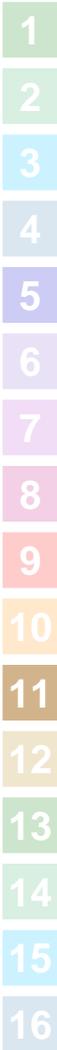
Client: City & County of Honolulu  
Project/Site: RED-HILL

Job ID: 380-177173-1  
SDG: Weekly: Halawa Wells Units 1&2 P1 (MS/MSD), Aiea  
Wells Pumps 1&2 P2

**Laboratory References:**

EA POM = Eurofins Eaton Analytical 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: 380-177173-1  
 SDG: Weekly: Halawa Wells Units 1&2 P1 (MS/MSD), Aiea  
 Wells Pumps 1&2 P2

## Laboratory: Eurofins Eaton Analytical Pomona

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

Authority	Program	Identification Number	Expiration Date
Hawaii	State	CA00006	01-31-26

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
525.2	525.2	Drinking Water	1-Methylnaphthalene
525.2	525.2	Drinking Water	2,4'-DDD
525.2	525.2	Drinking Water	2,4'-DDE
525.2	525.2	Drinking Water	2,4'-DDT
525.2	525.2	Drinking Water	2,4-Dinitrotoluene
525.2	525.2	Drinking Water	2,6-Dinitrotoluene
525.2	525.2	Drinking Water	2-Methylnaphthalene
525.2	525.2	Drinking Water	4,4'-DDD
525.2	525.2	Drinking Water	4,4' DDE
525.2	525.2	Drinking Water	4,4'-DDT
525.2	525.2	Drinking Water	Acetochlor
525.2	525.2	Drinking Water	alpha-BHC
525.2	525.2	Drinking Water	alpha-Chlordane
525.2	525.2	Drinking Water	beta-BHC
525.2	525.2	Drinking Water	Chlorobenzilate
525.2	525.2	Drinking Water	Chloroneb
525.2	525.2	Drinking Water	Chlorothalonil (Draconil, Bravo)
525.2	525.2	Drinking Water	Chlorpyrifos
525.2	525.2	Drinking Water	delta-BHC
525.2	525.2	Drinking Water	Diclorvos (DDVP)
525.2	525.2	Drinking Water	Endosulfan I (Alpha)
525.2	525.2	Drinking Water	Endosulfan II (Beta)
525.2	525.2	Drinking Water	Endosulfan sulfate
525.2	525.2	Drinking Water	Endrin aldehyde
525.2	525.2	Drinking Water	EPTC
525.2	525.2	Drinking Water	gamma-Chlordane
525.2	525.2	Drinking Water	Isophorone
525.2	525.2	Drinking Water	Malathion
525.2	525.2	Drinking Water	Parathion
525.2	525.2	Drinking Water	Pendimethalin (Penoxaline)
525.2	525.2	Drinking Water	Terbacil
525.2	525.2	Drinking Water	Terbutylazine
525.2	525.2	Drinking Water	Total Permethrin (mixed isomers)
525.2	525.2	Drinking Water	trans Nonachlor
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

# Accreditation/Certification Summary

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

Job ID: 380-177173-1  
 SDG: Weekly: Halawa Wells Units 1&2 P1 (MS/MSD), Aiea  
 Wells Pumps 1&2 P2

## Laboratory: Eurofins Eaton Analytical Pomona (Continued)

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

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

## Laboratory: Eurofins Calscience

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

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	7296.01	11-30-26
A2LA	ISO/IEC 17025	7296.01	11-30-26
Alaska (UST)	State	25-005	03-02-26
Arizona	State	AZ0830	11-16-25
California	Los Angeles County Sanitation Districts	9257304	07-31-26
California	SCAQMD LAP	17LA0919	11-30-25
California	State	3082	07-31-26
Kansas	NELAP	E-10420	07-31-26
Nevada	State	CA00111	07-31-26
Oregon	NELAP	4175	02-02-26
USDA	US Federal Programs	525-23-159-97150	06-08-26
Utah	NELAP	CA00111	02-28-26
Washington	State	C916	10-11-26

# Method Summary

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

Job ID: 380-177173-1  
SDG: Weekly: Halawa Wells Units 1&2 P1 (MS/MSD), Aiea  
Wells Pumps 1&2 P2

Method	Method Description	Protocol	Laboratory
525.2	Semivolatile Organic Compounds (GC/MS)	EPA	EA POM
625.1	Semivolatile Organic Compounds (GC/MS)	EPA	EET CAL 4
625.1 SIM	Semivolatile Organic Compounds GC/MS (SIM)	EPA	EET CAL 4
8015B GRO LL	Gasoline Range Organics - (GC)	SW846	EET CAL 4
8015B	Diesel Range Organics (DRO) (GC) Low Level	SW846	EET CAL 4
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET CAL 4
5030C	Purge and Trap	SW846	EET CAL 4
525.2	Extraction of Semivolatile Compounds	EPA	EA POM
625.1	Liquid-Liquid Extraction	40CFR136A	EET CAL 4

#### Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

#### Laboratory References:

EA POM = Eurofins Eaton Analytical 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: 380-177173-1  
SDG: Weekly: Halawa Wells Units 1&2 P1 (MS/MSD), Aiea  
Wells Pumps 1&2 P2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	PWSID Number
380-177173-1	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP065)	Drinking Water	10/13/25 10:28	10/15/25 10:27	HI0000331
380-177173-2	TB: HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Drinking Water	10/13/25 10:28	10/15/25 10:27	
380-177173-3	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP400)	Water	10/13/25 11:31	10/15/25 10:27	HI0000331
380-177173-4	TB: AIEA WELLS PUMPS 1&2 (260) (331-203-TP400)	Water	10/13/25 11:31	10/15/25 10:27	

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





## Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-177173-1

SDG Number: Weekly: Halawa Wells Units 1&2 P1 (MS/MSD), Aiea Wells Pumps 1&2 P2

**Login Number: 177173**

**List Source: Eurofins Eaton Analytical Pomona**

**List Number: 1**

**Creator: Segura, Ryan**

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



## Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-177173-1

SDG Number: Weekly: Halawa Wells Units 1&2 P1 (MS/MSD), Aiea Wells Pumps 1&2 P2

**Login Number: 177173**

**List Number: 2**

**Creator: Khana, Piyush**

**List Source: Eurofins Calscience**

**List Creation: 10/16/25 07:16 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.	N/A	
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	2.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	