

ANALYTICAL REPORT

PREPARED FOR

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JOB DESCRIPTION

RED-HILL
Weekly: Moanalua Wells

JOB NUMBER

380-187057-1

Eurofins Pomona

Job Notes

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

Compliance Statement

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

Authorization



Authorized for release by
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Definitions/Glossary

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

Job ID: 380-187057-1
SDG: Weekly: Moanalua Wells

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.

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
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.

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: 380-187057-1

Job ID: 380-187057-1

Eurofins Pomona

Job Narrative 380-187057-1

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 12/10/2025 9:42 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.7°C and 2.6°C.

GC/MS Semi VOA

Method 625.1: The surrogate recovery for the blank associated with preparation batch 570-668516 and analytical batch 570-676240 was outside the control limits. Method Blank (MB) results were ND but MB's average surrogate recoveries of 6 surrogates were about 2x lower than the acceptance limits of the surrogates. Low biased MB will not have impact on Moanalua Wells (380-187057-1) sample since all target analytes by 625.1 were Non detect in the sample. (XWB4)

Method 625.1_SIM: The surrogate recovery for the blank associated with preparation batch 570-668516 and analytical batch 570-673714 was outside control limits. Method Blank (MB) results were ND but MB's average surrogate recoveries of 6 surrogates were about 2x lower than the acceptance limits of the surrogates. Low biased MB will not have impact on Moanalua Wells (380-187057-1) sample since all target analytes by 625.1 were Non detect in the sample. (XWB4)

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

Gasoline Range Organics

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

Diesel Range Organics

Method 8015B_DRO_LL_CS: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 570-669844 and analytical batch 570-674105 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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: 380-187057-1
SDG: Weekly: Moanalua Wells

Client Sample ID: MOANALUA WELLS

Lab Sample ID: 380-187057-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Dieldrin	0.016		0.0097	ug/L	1		525.2	Total/NA

Client Sample ID: TB:MOANALUA WELLS

Lab Sample ID: 380-187057-2

No Detections.

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

This Detection Summary does not include radiochemical test results.

Client Sample Results

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

Job ID: 380-187057-1
SDG: Weekly: Moanalua Wells

Client Sample ID: MOANALUA WELLS

Lab Sample ID: 380-187057-1

Date Collected: 12/08/25 09:44

Matrix: Water

Date Received: 12/10/25 09:42

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.097		0.097	ug/L		12/11/25 08:04	12/14/25 16:23	1
2,4'-DDD	<0.097		0.097	ug/L		12/11/25 08:04	12/14/25 16:23	1
2,4'-DDE	<0.097		0.097	ug/L		12/11/25 08:04	12/14/25 16:23	1
2,4'-DDT	<0.097		0.097	ug/L		12/11/25 08:04	12/14/25 16:23	1
2,4-Dinitrotoluene	<0.097		0.097	ug/L		12/11/25 08:04	12/14/25 16:23	1
2,6-Dinitrotoluene	<0.097		0.097	ug/L		12/11/25 08:04	12/14/25 16:23	1
2-Methylnaphthalene	<0.097		0.097	ug/L		12/11/25 08:04	12/14/25 16:23	1
4,4'-DDD	<0.097		0.097	ug/L		12/11/25 08:04	12/14/25 16:23	1
4,4'-DDE	<0.097		0.097	ug/L		12/11/25 08:04	12/14/25 16:23	1
4,4'-DDT	<0.097		0.097	ug/L		12/11/25 08:04	12/14/25 16:23	1
Acenaphthene	<0.097		0.097	ug/L		12/11/25 08:04	12/14/25 16:23	1
Acenaphthylene	<0.097		0.097	ug/L		12/11/25 08:04	12/14/25 16:23	1
Acetochlor	<0.097		0.097	ug/L		12/11/25 08:04	12/14/25 16:23	1
Alachlor	<0.048		0.048	ug/L		12/11/25 08:04	12/14/25 16:23	1
alpha-BHC	<0.097		0.097	ug/L		12/11/25 08:04	12/14/25 16:23	1
alpha-Chlordane	<0.048		0.048	ug/L		12/11/25 08:04	12/14/25 16:23	1
Anthracene	<0.019		0.019	ug/L		12/11/25 08:04	12/14/25 16:23	1
Atrazine	<0.048		0.048	ug/L		12/11/25 08:04	12/14/25 16:23	1
Benz(a)anthracene	<0.048		0.048	ug/L		12/11/25 08:04	12/14/25 16:23	1
Benzo[a]pyrene	<0.019		0.019	ug/L		12/11/25 08:04	12/14/25 16:23	1
Benzo[b]fluoranthene	<0.019		0.019	ug/L		12/11/25 08:04	12/14/25 16:23	1
Benzo[g,h,i]perylene	<0.048		0.048	ug/L		12/11/25 08:04	12/14/25 16:23	1
Benzo[k]fluoranthene	<0.019		0.019	ug/L		12/11/25 08:04	12/14/25 16:23	1
beta-BHC	<0.097		0.097	ug/L		12/11/25 08:04	12/14/25 16:23	1
Bis(2-ethylhexyl) phthalate	<0.58		0.58	ug/L		12/11/25 08:04	12/14/25 16:23	1
Bromacil	<0.097		0.097	ug/L		12/11/25 08:04	12/14/25 16:23	1
Butachlor	<0.048		0.048	ug/L		12/11/25 08:04	12/14/25 16:23	1
Butylbenzylphthalate	<0.48		0.48	ug/L		12/11/25 08:04	12/14/25 16:23	1
Chlorobenzilate	<0.097		0.097	ug/L		12/11/25 08:04	12/14/25 16:23	1
Chloroneb	<0.097		0.097	ug/L		12/11/25 08:04	12/14/25 16:23	1
Chlorothalonil (Draconil, Bravo)	<0.097		0.097	ug/L		12/11/25 08:04	12/14/25 16:23	1
Chlorpyrifos	<0.048		0.048	ug/L		12/11/25 08:04	12/14/25 16:23	1
Chrysene	<0.019		0.019	ug/L		12/11/25 08:04	12/14/25 16:23	1
delta-BHC	<0.097		0.097	ug/L		12/11/25 08:04	12/14/25 16:23	1
Di(2-ethylhexyl)adipate	<0.58		0.58	ug/L		12/11/25 08:04	12/14/25 16:23	1
Dibenz(a,h)anthracene	<0.048		0.048	ug/L		12/11/25 08:04	12/14/25 16:23	1
Diclorvos (DDVP)	<0.048		0.048	ug/L		12/11/25 08:04	12/14/25 16:23	1
Dieldrin	0.016		0.0097	ug/L		12/11/25 08:04	12/14/25 16:23	1
Diethylphthalate	<0.48		0.48	ug/L		12/11/25 08:04	12/14/25 16:23	1
Dimethylphthalate	<0.48		0.48	ug/L		12/11/25 08:04	12/14/25 16:23	1
Di-n-butyl phthalate	<0.97		0.97	ug/L		12/11/25 08:04	12/14/25 16:23	1
Di-n-octyl phthalate	<0.097		0.097	ug/L		12/11/25 08:04	12/14/25 16:23	1
Endosulfan I (Alpha)	<0.097		0.097	ug/L		12/11/25 08:04	12/14/25 16:23	1
Endosulfan II (Beta)	<0.097		0.097	ug/L		12/11/25 08:04	12/14/25 16:23	1
Endosulfan sulfate	<0.097		0.097	ug/L		12/11/25 08:04	12/14/25 16:23	1
Endrin	<0.0097		0.0097	ug/L		12/11/25 08:04	12/14/25 16:23	1
Endrin aldehyde	<0.097		0.097	ug/L		12/11/25 08:04	12/14/25 16:23	1
EPTC	<0.097		0.097	ug/L		12/11/25 08:04	12/14/25 16:23	1
Fluoranthene	<0.097		0.097	ug/L		12/11/25 08:04	12/14/25 16:23	1

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Client Sample Results

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

Job ID: 380-187057-1
SDG: Weekly: Moanalua Wells

Client Sample ID: MOANALUA WELLS

Lab Sample ID: 380-187057-1

Date Collected: 12/08/25 09:44

Matrix: Water

Date Received: 12/10/25 09:42

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	<0.048		0.048	ug/L		12/11/25 08:04	12/14/25 16:23	1
gamma-Chlordane	<0.048		0.048	ug/L		12/11/25 08:04	12/14/25 16:23	1
Heptachlor	<0.0097		0.0097	ug/L		12/11/25 08:04	12/14/25 16:23	1
Heptachlor epoxide (isomer B)	<0.0097		0.0097	ug/L		12/11/25 08:04	12/14/25 16:23	1
Hexachlorobenzene	<0.048		0.048	ug/L		12/11/25 08:04	12/14/25 16:23	1
Hexachlorocyclopentadiene	<0.048		0.048	ug/L		12/11/25 08:04	12/14/25 16:23	1
Indeno[1,2,3-cd]pyrene	<0.048		0.048	ug/L		12/11/25 08:04	12/14/25 16:23	1
Isophorone	<0.097		0.097	ug/L		12/11/25 08:04	12/14/25 16:23	1
Lindane	<0.0097		0.0097	ug/L		12/11/25 08:04	12/14/25 16:23	1
Malathion	<0.097		0.097	ug/L		12/11/25 08:04	12/14/25 16:23	1
Methoxychlor	<0.048		0.048	ug/L		12/11/25 08:04	12/14/25 16:23	1
Metolachlor	<0.048		0.048	ug/L		12/11/25 08:04	12/14/25 16:23	1
Molinate	<0.097		0.097	ug/L		12/11/25 08:04	12/14/25 16:23	1
Naphthalene	<0.097		0.097	ug/L		12/11/25 08:04	12/14/25 16:23	1
Parathion	<0.097		0.097	ug/L		12/11/25 08:04	12/14/25 16:23	1
Pendimethalin (Penoxaline)	<0.097		0.097	ug/L		12/11/25 08:04	12/14/25 16:23	1
Phenanthrene	<0.039		0.039	ug/L		12/11/25 08:04	12/14/25 16:23	1
Propachlor	<0.048		0.048	ug/L		12/11/25 08:04	12/14/25 16:23	1
Pyrene	<0.048		0.048	ug/L		12/11/25 08:04	12/14/25 16:23	1
Simazine	<0.048		0.048	ug/L		12/11/25 08:04	12/14/25 16:23	1
Terbacil	<0.097		0.097	ug/L		12/11/25 08:04	12/14/25 16:23	1
Terbutylazine	<0.097		0.097	ug/L		12/11/25 08:04	12/14/25 16:23	1
Thiobencarb	<0.097		0.097	ug/L		12/11/25 08:04	12/14/25 16:23	1
Total Permethrin (mixed isomers)	<0.19		0.19	ug/L		12/11/25 08:04	12/14/25 16:23	1
trans-Nonachlor	<0.048		0.048	ug/L		12/11/25 08:04	12/14/25 16:23	1
Trifluralin	<0.097		0.097	ug/L		12/11/25 08:04	12/14/25 16:23	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	12/11/25 08:04	12/14/25 16:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	99		70 - 130	12/11/25 08:04	12/14/25 16:23	1
Perylene-d12	95		70 - 130	12/11/25 08:04	12/14/25 16:23	1
Triphenylphosphate	128		70 - 130	12/11/25 08:04	12/14/25 16:23	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.19		0.19	ug/L		12/11/25 12:16	12/22/25 16:01	1
2-Methylnaphthalene	<0.19		0.19	ug/L		12/11/25 12:16	12/22/25 16:01	1
Acenaphthene	<0.19		0.19	ug/L		12/11/25 12:16	12/22/25 16:01	1
Acenaphthylene	<0.19		0.19	ug/L		12/11/25 12:16	12/22/25 16:01	1
Anthracene	<0.19		0.19	ug/L		12/11/25 12:16	12/22/25 16:01	1
Benzo[a]anthracene	<0.19		0.19	ug/L		12/11/25 12:16	12/22/25 16:01	1
Benzo[a]pyrene	<0.19		0.19	ug/L		12/11/25 12:16	12/22/25 16:01	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		12/11/25 12:16	12/22/25 16:01	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		12/11/25 12:16	12/22/25 16:01	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		12/11/25 12:16	12/22/25 16:01	1
Chrysene	<0.19		0.19	ug/L		12/11/25 12:16	12/22/25 16:01	1
Dibenz(a,h)anthracene	<0.19		0.19	ug/L		12/11/25 12:16	12/22/25 16:01	1
Fluoranthene	<0.19		0.19	ug/L		12/11/25 12:16	12/22/25 16:01	1

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Client Sample Results

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

Job ID: 380-187057-1
SDG: Weekly: Moanalua Wells

Client Sample ID: MOANALUA WELLS

Lab Sample ID: 380-187057-1

Date Collected: 12/08/25 09:44

Matrix: Water

Date Received: 12/10/25 09:42

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	<0.19		0.19	ug/L		12/11/25 12:16	12/22/25 16:01	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		12/11/25 12:16	12/22/25 16:01	1
Naphthalene	<0.19		0.19	ug/L		12/11/25 12:16	12/22/25 16:01	1
Phenanthrene	<0.19		0.19	ug/L		12/11/25 12:16	12/22/25 16:01	1
Pyrene	<0.19		0.19	ug/L		12/11/25 12:16	12/22/25 16:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	85		28 - 127	12/11/25 12:16	12/22/25 16:01	1
2-Fluorobiphenyl (Surr)	82		31 - 120	12/11/25 12:16	12/22/25 16:01	1
2-Fluorophenol (Surr)	52		17 - 120	12/11/25 12:16	12/22/25 16:01	1
Nitrobenzene-d5 (Surr)	81		27 - 120	12/11/25 12:16	12/22/25 16:01	1
Phenol-d6 (Surr)	33		10 - 120	12/11/25 12:16	12/22/25 16:01	1
p-Terphenyl-d14 (Surr)	83		45 - 120	12/11/25 12:16	12/22/25 16:01	1

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

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	12/11/25 12:16	12/29/25 15:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	75		33 - 139	12/11/25 12:16	12/29/25 15:12	1
2-Fluorobiphenyl (Surr)	83		33 - 126	12/11/25 12:16	12/29/25 15:12	1
2-Fluorophenol (Surr)	51		12 - 120	12/11/25 12:16	12/29/25 15:12	1
Nitrobenzene-d5 (Surr)	90		36 - 120	12/11/25 12:16	12/29/25 15:12	1
Phenol-d6 (Surr)	31		10 - 120	12/11/25 12:16	12/29/25 15:12	1
p-Terphenyl-d14 (Surr)	81		47 - 131	12/11/25 12:16	12/29/25 15:12	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			12/20/25 16:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		38 - 134		12/20/25 16:39	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		12/14/25 10:45	12/22/25 19:52	1
Motor Oil Range Organics [C24-C36]	<26		26	ug/L		12/14/25 10:45	12/22/25 19:52	1
C8-C18	<26		26	ug/L		12/14/25 10:45	12/22/25 19:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	110		60 - 130	12/14/25 10:45	12/22/25 19:52	1

Client Sample ID: TB:MOANALUA WELLS

Lab Sample ID: 380-187057-2

Date Collected: 12/08/25 09:44

Matrix: Water

Date Received: 12/10/25 09:42

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			12/20/25 21:26	1

Client Sample Results

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

Job ID: 380-187057-1
SDG: Weekly: Moanalua Wells

Client Sample ID: TB:MOANALUA WELLS

Lab Sample ID: 380-187057-2

Date Collected: 12/08/25 09:44

Matrix: Water

Date Received: 12/10/25 09:42

<u>Surrogate</u>	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Dil Fac</u>
4-Bromofluorobenzene (Surr)	88		38 - 134		12/20/25 21:26	1

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

Action Limit Summary

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

Job ID: 380-187057-1
SDG: Weekly: Moanalua Wells

Client Sample ID: MOANALUA WELLS

Lab Sample ID: 380-187057-1

Compliance Check

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

Analyte	Result	Qualifier	Unit	EPAMCL	RL	Method	Prep Type
				Limit			
Alachlor	<0.048		ug/L	2	0.048	525.2	Total/NA
Atrazine	<0.048		ug/L	3	0.048	525.2	Total/NA
Benzo[a]pyrene	<0.019		ug/L	0.2	0.019	525.2	Total/NA
Bis(2-ethylhexyl) phthalate	<0.58		ug/L	6	0.58	525.2	Total/NA
Di(2-ethylhexyl)adipate	<0.58		ug/L	400	0.58	525.2	Total/NA
Endrin	<0.0097		ug/L	2	0.0097	525.2	Total/NA
Heptachlor	<0.0097		ug/L	0.4	0.0097	525.2	Total/NA
Heptachlor epoxide (isomer B)	<0.0097		ug/L	0.2	0.0097	525.2	Total/NA
Hexachlorobenzene	<0.048		ug/L	1	0.048	525.2	Total/NA
Hexachlorocyclopentadiene	<0.048		ug/L	50	0.048	525.2	Total/NA
Lindane	<0.0097		ug/L	0.2	0.0097	525.2	Total/NA
Methoxychlor	<0.048		ug/L	40	0.048	525.2	Total/NA
Simazine	<0.048		ug/L	4	0.048	525.2	Total/NA
Benzo[a]pyrene	<0.19		ug/L	0.2	0.19	625.1 SIM	Total/NA

Surrogate Summary

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

Job ID: 380-187057-1
SDG: Weekly: Moanalua Wells

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)
380-187018-I-1-A MS	Matrix Spike	95	95	113
380-187057-1	MOANALUA WELLS	99	95	128
380-187062-Q-1-B DU	Duplicate	98	83	133 S1+
LCS 380-191694/23-A	Lab Control Sample	99	94	126
MB 380-191694/21-A	Method Blank	100	90	116
MRL 380-191694/22-A	Lab Control Sample	98	82	124

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

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (33-139)	FBP (33-126)	2FP (12-120)	NBZ (36-120)	PHL6 (10-120)	TPHd14 (47-131)
380-187057-1	MOANALUA WELLS	75	83	51	90	31	81
MB 570-668516/1-A	Method Blank	12 S1-	12 S1-	14	19 S1-	8 S1-	19 S1-

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)
380-187025-A-1-B MS	Matrix Spike	82	84	59	69	39	85
380-187025-A-1-C MSD	Matrix Spike Duplicate	88	88	62	75	41	88
380-187057-1	MOANALUA WELLS	85	82	52	81	33	83
LCS 570-668516/2-A	Lab Control Sample	86	86	66	73	44	88
LCSD 570-668516/3-A	Lab Control Sample Dup	82	83	60	70	39	83
MB 570-668516/1-A	Method Blank	19 S1-	14 S1-	11 S1-	15 S1-	8 S1-	20 S1-

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

Surrogate Summary

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

Job ID: 380-187057-1
SDG: Weekly: Moanalua Wells

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)
380-187025-C-1 MS	Matrix Spike	80
380-187025-C-1 MSD	Matrix Spike Duplicate	85
380-187057-1	MOANALUA WELLS	88
380-187057-2	TB:MOANALUA WELLS	88
LCS 570-673280/4	Lab Control Sample	84
LCSD 570-673280/5	Lab Control Sample Dup	91
MB 570-673280/6	Method Blank	88
MRL 570-673280/3	Lab Control Sample	80

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	OTCSN1 (60-130)
380-187025-B-1-A MS	Matrix Spike	106
380-187025-B-1-B MSD	Matrix Spike Duplicate	115
380-187057-1	MOANALUA WELLS	110
LCS 570-669844/2-A	Lab Control Sample	102
LCSD 570-669844/3-A	Lab Control Sample Dup	91
MB 570-669844/1-A	Method Blank	108
MRL 570-669844/4-A	Lab Control Sample	86

Surrogate Legend

OTCSN = n-Octacosane (Surr)

QC Sample Results

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

Job ID: 380-187057-1
 SDG: Weekly: Moanalua Wells

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

Lab Sample ID: MB 380-191694/21-A
Matrix: Water
Analysis Batch: 192250

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 191694

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.099		0.099	ug/L		12/11/25 08:04	12/14/25 08:54	1
2,4'-DDD	<0.099		0.099	ug/L		12/11/25 08:04	12/14/25 08:54	1
2,4'-DDE	<0.099		0.099	ug/L		12/11/25 08:04	12/14/25 08:54	1
2,4'-DDT	<0.099		0.099	ug/L		12/11/25 08:04	12/14/25 08:54	1
2,4-Dinitrotoluene	<0.099		0.099	ug/L		12/11/25 08:04	12/14/25 08:54	1
2,6-Dinitrotoluene	<0.099		0.099	ug/L		12/11/25 08:04	12/14/25 08:54	1
2-Methylnaphthalene	<0.099		0.099	ug/L		12/11/25 08:04	12/14/25 08:54	1
4,4'-DDD	<0.099		0.099	ug/L		12/11/25 08:04	12/14/25 08:54	1
4,4'-DDE	<0.099		0.099	ug/L		12/11/25 08:04	12/14/25 08:54	1
4,4'-DDT	<0.099		0.099	ug/L		12/11/25 08:04	12/14/25 08:54	1
Acenaphthene	<0.099		0.099	ug/L		12/11/25 08:04	12/14/25 08:54	1
Acenaphthylene	<0.099		0.099	ug/L		12/11/25 08:04	12/14/25 08:54	1
Acetochlor	<0.099		0.099	ug/L		12/11/25 08:04	12/14/25 08:54	1
Alachlor	<0.050		0.050	ug/L		12/11/25 08:04	12/14/25 08:54	1
alpha-BHC	<0.099		0.099	ug/L		12/11/25 08:04	12/14/25 08:54	1
alpha-Chlordane	<0.050		0.050	ug/L		12/11/25 08:04	12/14/25 08:54	1
Anthracene	<0.020		0.020	ug/L		12/11/25 08:04	12/14/25 08:54	1
Atrazine	<0.050		0.050	ug/L		12/11/25 08:04	12/14/25 08:54	1
Benz(a)anthracene	<0.050		0.050	ug/L		12/11/25 08:04	12/14/25 08:54	1
Benzo[a]pyrene	<0.020		0.020	ug/L		12/11/25 08:04	12/14/25 08:54	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		12/11/25 08:04	12/14/25 08:54	1
Benzo[g,h,i]perylene	<0.050		0.050	ug/L		12/11/25 08:04	12/14/25 08:54	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		12/11/25 08:04	12/14/25 08:54	1
beta-BHC	<0.099		0.099	ug/L		12/11/25 08:04	12/14/25 08:54	1
Bis(2-ethylhexyl) phthalate	<0.60		0.60	ug/L		12/11/25 08:04	12/14/25 08:54	1
Bromacil	<0.099		0.099	ug/L		12/11/25 08:04	12/14/25 08:54	1
Butachlor	<0.050		0.050	ug/L		12/11/25 08:04	12/14/25 08:54	1
Butylbenzylphthalate	<0.50		0.50	ug/L		12/11/25 08:04	12/14/25 08:54	1
Chlorobenzilate	<0.099		0.099	ug/L		12/11/25 08:04	12/14/25 08:54	1
Chloroneb	<0.099		0.099	ug/L		12/11/25 08:04	12/14/25 08:54	1
Chlorothalonil (Draconil, Bravo)	<0.099		0.099	ug/L		12/11/25 08:04	12/14/25 08:54	1
Chlorpyrifos	<0.050		0.050	ug/L		12/11/25 08:04	12/14/25 08:54	1
Chrysene	<0.020		0.020	ug/L		12/11/25 08:04	12/14/25 08:54	1
delta-BHC	<0.099		0.099	ug/L		12/11/25 08:04	12/14/25 08:54	1
Di(2-ethylhexyl)adipate	<0.60		0.60	ug/L		12/11/25 08:04	12/14/25 08:54	1
Dibenz(a,h)anthracene	<0.050		0.050	ug/L		12/11/25 08:04	12/14/25 08:54	1
Diclorvos (DDVP)	<0.050		0.050	ug/L		12/11/25 08:04	12/14/25 08:54	1
Dieldrin	<0.0099		0.0099	ug/L		12/11/25 08:04	12/14/25 08:54	1
Diethylphthalate	<0.50		0.50	ug/L		12/11/25 08:04	12/14/25 08:54	1
Dimethylphthalate	<0.50		0.50	ug/L		12/11/25 08:04	12/14/25 08:54	1
Di-n-butyl phthalate	<0.99		0.99	ug/L		12/11/25 08:04	12/14/25 08:54	1
Di-n-octyl phthalate	<0.099		0.099	ug/L		12/11/25 08:04	12/14/25 08:54	1
Endosulfan I (Alpha)	<0.099		0.099	ug/L		12/11/25 08:04	12/14/25 08:54	1
Endosulfan II (Beta)	<0.099		0.099	ug/L		12/11/25 08:04	12/14/25 08:54	1
Endosulfan sulfate	<0.099		0.099	ug/L		12/11/25 08:04	12/14/25 08:54	1
Endrin	<0.0099		0.0099	ug/L		12/11/25 08:04	12/14/25 08:54	1
Endrin aldehyde	<0.099		0.099	ug/L		12/11/25 08:04	12/14/25 08:54	1
EPTC	<0.099		0.099	ug/L		12/11/25 08:04	12/14/25 08:54	1

Eurofins Pomona

QC Sample Results

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

Job ID: 380-187057-1
SDG: Weekly: Moanalua Wells

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

Lab Sample ID: MB 380-191694/21-A
Matrix: Water
Analysis Batch: 192250

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 191694

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.099		0.099	ug/L		12/11/25 08:04	12/14/25 08:54	1
Fluorene	<0.050		0.050	ug/L		12/11/25 08:04	12/14/25 08:54	1
gamma-Chlordane	<0.050		0.050	ug/L		12/11/25 08:04	12/14/25 08:54	1
Heptachlor	<0.0099		0.0099	ug/L		12/11/25 08:04	12/14/25 08:54	1
Heptachlor epoxide (isomer B)	<0.0099		0.0099	ug/L		12/11/25 08:04	12/14/25 08:54	1
Hexachlorobenzene	<0.050		0.050	ug/L		12/11/25 08:04	12/14/25 08:54	1
Hexachlorocyclopentadiene	<0.050		0.050	ug/L		12/11/25 08:04	12/14/25 08:54	1
Indeno[1,2,3-cd]pyrene	<0.050		0.050	ug/L		12/11/25 08:04	12/14/25 08:54	1
Isophorone	<0.099		0.099	ug/L		12/11/25 08:04	12/14/25 08:54	1
Lindane	<0.0099		0.0099	ug/L		12/11/25 08:04	12/14/25 08:54	1
Malathion	<0.099		0.099	ug/L		12/11/25 08:04	12/14/25 08:54	1
Methoxychlor	<0.050		0.050	ug/L		12/11/25 08:04	12/14/25 08:54	1
Metolachlor	<0.050		0.050	ug/L		12/11/25 08:04	12/14/25 08:54	1
Molinate	<0.099		0.099	ug/L		12/11/25 08:04	12/14/25 08:54	1
Naphthalene	<0.099		0.099	ug/L		12/11/25 08:04	12/14/25 08:54	1
Parathion	<0.099		0.099	ug/L		12/11/25 08:04	12/14/25 08:54	1
Pendimethalin (Penoxaline)	<0.099		0.099	ug/L		12/11/25 08:04	12/14/25 08:54	1
Phenanthrene	<0.040		0.040	ug/L		12/11/25 08:04	12/14/25 08:54	1
Propachlor	<0.050		0.050	ug/L		12/11/25 08:04	12/14/25 08:54	1
Pyrene	<0.050		0.050	ug/L		12/11/25 08:04	12/14/25 08:54	1
Simazine	<0.050		0.050	ug/L		12/11/25 08:04	12/14/25 08:54	1
Terbacil	<0.099		0.099	ug/L		12/11/25 08:04	12/14/25 08:54	1
Terbutylazine	<0.099		0.099	ug/L		12/11/25 08:04	12/14/25 08:54	1
Thiobencarb	<0.099		0.099	ug/L		12/11/25 08:04	12/14/25 08:54	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		12/11/25 08:04	12/14/25 08:54	1
trans-Nonachlor	<0.050		0.050	ug/L		12/11/25 08:04	12/14/25 08:54	1
Trifluralin	<0.099		0.099	ug/L		12/11/25 08:04	12/14/25 08:54	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Cyclopentene, 1,2,3,4,5-pentamethyl-	0.962	T J N	ug/L		2.52	1000154-28-6	12/11/25 08:04	12/14/25 08:54	1
Cyclotetrasiloxane, octamethyl-	0.978	T J N	ug/L		2.72	556-67-2	12/11/25 08:04	12/14/25 08:54	1
Unknown	1.40	T J	ug/L		2.98	N/A	12/11/25 08:04	12/14/25 08:54	1
Undecane	3.36	T J N	ug/L		3.12	1120-21-4	12/11/25 08:04	12/14/25 08:54	1
Hexadecane	0.545	T J N	ug/L		3.76	544-76-3	12/11/25 08:04	12/14/25 08:54	1
9-Octadecenamide, (Z)-	2.92	T J N	ug/L		7.86	301-02-0	12/11/25 08:04	12/14/25 08:54	1
Unknown	0.618	T J	ug/L		14.90	N/A	12/11/25 08:04	12/14/25 08:54	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	100		70 - 130	12/11/25 08:04	12/14/25 08:54	1
Perylene-d12	90		70 - 130	12/11/25 08:04	12/14/25 08:54	1
Triphenylphosphate	116		70 - 130	12/11/25 08:04	12/14/25 08:54	1

QC Sample Results

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

Job ID: 380-187057-1
SDG: Weekly: Moanalua Wells

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

Lab Sample ID: LCS 380-191694/23-A
Matrix: Water
Analysis Batch: 192250

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 191694

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	1.99	1.64		ug/L		82	70 - 130
2,4'-DDD	1.99	1.97		ug/L		99	70 - 130
2,4'-DDE	1.99	1.91		ug/L		96	70 - 130
2,4'-DDT	1.99	1.77		ug/L		89	70 - 130
2,4-Dinitrotoluene	1.99	1.59		ug/L		80	70 - 130
2,6-Dinitrotoluene	1.99	1.82		ug/L		92	70 - 130
2-Methylnaphthalene	1.99	1.67		ug/L		84	70 - 130
4,4'-DDD	1.99	2.03		ug/L		102	70 - 130
4,4'-DDE	1.99	2.25		ug/L		113	70 - 130
4,4'-DDT	1.99	1.93		ug/L		97	70 - 130
Acenaphthene	1.99	1.97		ug/L		99	70 - 130
Acenaphthylene	1.99	1.78		ug/L		90	70 - 130
Acetochlor	1.99	2.24		ug/L		113	70 - 130
Alachlor	1.99	2.10		ug/L		106	70 - 130
alpha-BHC	1.99	1.86		ug/L		94	70 - 130
alpha-Chlordane	1.99	1.97		ug/L		99	70 - 130
Anthracene	1.99	1.61		ug/L		81	70 - 130
Atrazine	1.99	1.93		ug/L		97	70 - 130
Benz(a)anthracene	1.99	1.77		ug/L		89	70 - 130
Benzo[a]pyrene	1.99	1.78		ug/L		90	70 - 130
Benzo[b]fluoranthene	1.99	1.96		ug/L		99	70 - 130
Benzo[g,h,i]perylene	1.99	2.08		ug/L		105	70 - 130
Benzo[k]fluoranthene	1.99	1.82		ug/L		92	70 - 130
beta-BHC	1.99	2.09		ug/L		105	70 - 130
Bis(2-ethylhexyl) phthalate	1.99	2.56		ug/L		129	70 - 130
Bromacil	1.99	1.85		ug/L		93	70 - 130
Butachlor	1.99	2.10		ug/L		106	70 - 130
Butylbenzylphthalate	1.99	2.53		ug/L		128	70 - 130
Chlorobenzilate	1.99	2.13		ug/L		107	70 - 130
Chloroneb	1.99	1.79		ug/L		90	70 - 130
Chlorothalonil (Draconil, Bravo)	1.99	1.79		ug/L		90	70 - 130
Chlorpyrifos	1.99	1.92		ug/L		97	70 - 130
Chrysene	1.99	1.70		ug/L		86	70 - 130
delta-BHC	1.99	1.94		ug/L		97	70 - 130
Di(2-ethylhexyl)adipate	1.99	2.36		ug/L		119	70 - 130
Dibenz(a,h)anthracene	1.99	2.03		ug/L		102	70 - 130
Diclorvos (DDVP)	1.99	2.00		ug/L		101	70 - 130
Dieldrin	1.99	1.85		ug/L		93	70 - 130
Diethylphthalate	1.99	2.05		ug/L		103	70 - 130
Dimethylphthalate	1.99	1.88		ug/L		95	70 - 130
Di-n-butyl phthalate	3.97	4.06		ug/L		102	70 - 130
Di-n-octyl phthalate	1.99	2.33		ug/L		118	70 - 130
Endosulfan I (Alpha)	1.99	1.92		ug/L		97	70 - 130
Endosulfan II (Beta)	1.99	1.97		ug/L		99	70 - 130
Endosulfan sulfate	1.99	1.96		ug/L		99	70 - 130
Endrin	1.99	1.98		ug/L		100	70 - 130
Endrin aldehyde	1.99	2.23		ug/L		112	60 - 130
EPTC	1.99	1.92		ug/L		97	70 - 130

QC Sample Results

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

Job ID: 380-187057-1
SDG: Weekly: Moanalua Wells

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

Lab Sample ID: LCS 380-191694/23-A
Matrix: Water
Analysis Batch: 192250

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 191694

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoranthene	1.99	2.12		ug/L		107	70 - 130
Fluorene	1.99	1.74		ug/L		88	70 - 130
gamma-Chlordane	1.99	1.91		ug/L		96	70 - 130
Heptachlor	1.99	1.95		ug/L		98	70 - 130
Heptachlor epoxide (isomer B)	1.99	2.29		ug/L		116	70 - 130
Hexachlorobenzene	1.99	1.92		ug/L		97	70 - 130
Hexachlorocyclopentadiene	1.99	1.59		ug/L		80	70 - 130
Indeno[1,2,3-cd]pyrene	1.99	2.02		ug/L		102	70 - 130
Isophorone	1.99	2.03		ug/L		102	70 - 130
Lindane	1.99	1.93		ug/L		97	70 - 130
Malathion	1.99	1.99		ug/L		100	70 - 130
Methoxychlor	1.99	1.95		ug/L		98	70 - 130
Metolachlor	1.99	1.93		ug/L		97	70 - 130
Molinate	1.99	1.87		ug/L		94	70 - 130
Naphthalene	1.99	1.87		ug/L		94	70 - 130
Parathion	1.99	2.19		ug/L		110	70 - 130
Pendimethalin (Penoxaline)	1.99	1.73		ug/L		87	70 - 130
Phenanthrene	1.99	1.86		ug/L		94	70 - 130
Propachlor	1.99	1.98		ug/L		100	70 - 130
Pyrene	1.99	2.05		ug/L		103	70 - 130
Simazine	1.99	1.72		ug/L		87	70 - 130
Terbacil	1.99	2.13		ug/L		107	70 - 130
Terbutylazine	1.99	2.03		ug/L		103	70 - 130
Thiobencarb	1.99	2.14		ug/L		108	70 - 130
trans-Nonachlor	1.99	2.27		ug/L		114	70 - 130
Trifluralin	1.99	1.55		ug/L		78	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Nitro-m-xylene	99		70 - 130
Perylene-d12	94		70 - 130
Triphenylphosphate	126		70 - 130

Lab Sample ID: MRL 380-191694/22-A
Matrix: Water
Analysis Batch: 192250

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 191694

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	0.0995	0.0967	J	ug/L		97	50 - 150
2,4'-DDD	0.0995	0.0721	J	ug/L		72	50 - 150
2,4'-DDE	0.0995	0.0813	J	ug/L		82	50 - 150
2,4'-DDT	0.0995	0.0862	J	ug/L		87	50 - 150
2,4-Dinitrotoluene	0.0995	0.0896	J	ug/L		90	50 - 150
2,6-Dinitrotoluene	0.0995	0.104		ug/L		104	50 - 150
2-Methylnaphthalene	0.0995	0.0996		ug/L		100	50 - 150
4,4'-DDD	0.0995	0.0782	J	ug/L		79	50 - 150
4,4'-DDE	0.0995	0.0844	J	ug/L		85	50 - 150
4,4'-DDT	0.0995	0.102		ug/L		103	50 - 150
Acenaphthene	0.0995	0.0751	J	ug/L		75	50 - 150

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QC Sample Results

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

Job ID: 380-187057-1
SDG: Weekly: Moanalua Wells

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

Lab Sample ID: MRL 380-191694/22-A
Matrix: Water
Analysis Batch: 192250

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 191694

Analyte	Spike Added	MRL	MRL	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Acenaphthylene	0.0995	0.0828	J	ug/L		83	50 - 150
Acetochlor	0.0995	0.108		ug/L		109	50 - 150
Alachlor	0.0497	0.0501		ug/L		101	50 - 150
alpha-BHC	0.0995	0.115		ug/L		116	50 - 150
alpha-Chlordane	0.0249	<0.029		ug/L		109	50 - 150
Anthracene	0.0199	<0.019		ug/L		90	50 - 150
Atrazine	0.0497	0.0487	J	ug/L		98	50 - 150
Benz(a)anthracene	0.0497	0.0547		ug/L		110	50 - 150
Benzo[a]pyrene	0.0199	0.0166	J	ug/L		83	50 - 150
Benzo[b]fluoranthene	0.0199	0.0167	J	ug/L		84	50 - 150
Benzo[g,h,i]perylene	0.0497	0.0449	J	ug/L		90	50 - 150
Benzo[k]fluoranthene	0.0199	0.0187	J	ug/L		94	50 - 150
beta-BHC	0.0995	0.134		ug/L		134	50 - 150
Bis(2-ethylhexyl) phthalate	0.597	0.676		ug/L		113	50 - 150
Bromacil	0.0995	0.148		ug/L		149	50 - 150
Butachlor	0.0497	0.0517		ug/L		104	50 - 150
Butylbenzylphthalate	0.497	0.667		ug/L		134	50 - 150
Chlorobenzilate	0.0995	0.0957	J	ug/L		96	50 - 150
Chloroneb	0.0995	0.122		ug/L		123	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0995	0.0854	J	ug/L		86	50 - 150
Chlorpyrifos	0.0497	0.0670		ug/L		135	50 - 150
Chrysene	0.0199	0.0163	J	ug/L		82	50 - 150
delta-BHC	0.0995	0.124		ug/L		125	50 - 150
Di(2-ethylhexyl)adipate	0.597	0.707		ug/L		118	50 - 150
Dibenz(a,h)anthracene	0.0497	0.0530		ug/L		107	50 - 150
Diclorvos (DDVP)	0.0497	0.0642		ug/L		129	50 - 150
Dieldrin	0.00995	0.00950	J	ug/L		96	50 - 150
Diethylphthalate	0.497	0.539		ug/L		108	50 - 150
Dimethylphthalate	0.497	0.493	J	ug/L		99	50 - 150
Di-n-butyl phthalate	0.497	0.471	J	ug/L		95	49 - 243
Di-n-octyl phthalate	0.0995	0.0972	J	ug/L		98	50 - 150
Endosulfan I (Alpha)	0.0995	0.127		ug/L		127	50 - 150
Endosulfan II (Beta)	0.0995	0.126		ug/L		127	50 - 150
Endosulfan sulfate	0.0995	0.0923	J	ug/L		93	50 - 150
Endrin	0.00995	0.0116		ug/L		117	50 - 150
Endrin aldehyde	0.0995	0.0869	J	ug/L		87	50 - 150
EPTC	0.0995	0.0867	J	ug/L		87	50 - 150
Fluoranthene	0.0995	0.117		ug/L		118	50 - 150
Fluorene	0.0497	<0.050		ug/L		97	50 - 150
gamma-Chlordane	0.0249	0.0226	J	ug/L		91	50 - 150
Heptachlor	0.00995	0.0100		ug/L		101	50 - 150
Heptachlor epoxide (isomer B)	0.00995	0.00908	J	ug/L		91	50 - 150
Hexachlorobenzene	0.0497	0.0505		ug/L		102	50 - 150
Hexachlorocyclopentadiene	0.0497	<0.038		ug/L		61	50 - 150
Indeno[1,2,3-cd]pyrene	0.0497	0.0530		ug/L		107	50 - 150
Isophorone	0.0995	0.127		ug/L		127	50 - 150
Lindane	0.00995	0.0114		ug/L		114	50 - 150
Malathion	0.0995	0.0998		ug/L		100	50 - 150
Methoxychlor	0.0497	0.0599		ug/L		121	50 - 150

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QC Sample Results

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

Job ID: 380-187057-1
SDG: Weekly: Moanalua Wells

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

Lab Sample ID: MRL 380-191694/22-A
Matrix: Water
Analysis Batch: 192250

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 191694

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Metolachlor	0.0497	0.0523		ug/L		105	50 - 150
Molinate	0.0995	0.0964	J	ug/L		97	50 - 150
Naphthalene	0.0995	0.0788	J	ug/L		79	50 - 150
Parathion	0.0995	0.0982	J	ug/L		99	50 - 150
Pendimethalin (Penoxaline)	0.0995	0.0730	J	ug/L		73	50 - 150
Phenanthrene	0.0398	0.0431		ug/L		108	50 - 150
Propachlor	0.0497	0.0542		ug/L		109	50 - 150
Pyrene	0.0497	0.0617		ug/L		124	50 - 150
Simazine	0.0497	0.0547		ug/L		110	50 - 150
Terbacil	0.0995	0.0894	J	ug/L		90	50 - 150
Terbutylazine	0.0995	0.103		ug/L		104	50 - 150
Thiobencarb	0.0995	0.118		ug/L		118	50 - 150
trans-Nonachlor	0.0249	0.0308	J	ug/L		124	50 - 150
Trifluralin	0.0995	0.0831	J	ug/L		84	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
2-Nitro-m-xylene	98		70 - 130
Perylene-d12	82		70 - 130
Triphenylphosphate	124		70 - 130

Lab Sample ID: 380-187018-I-1-A MS
Matrix: Water
Analysis Batch: 192249

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 191694

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.097		1.96	1.76		ug/L		89	70 - 130
2,4'-DDD	<0.097		1.96	2.04		ug/L		104	70 - 130
2,4'-DDE	<0.097		1.96	1.99		ug/L		102	70 - 130
2,4'-DDT	<0.097		1.96	2.06		ug/L		105	70 - 130
2,4-Dinitrotoluene	<0.097		1.96	1.81		ug/L		93	70 - 130
2,6-Dinitrotoluene	<0.097		1.96	1.84		ug/L		94	70 - 130
2-Methylnaphthalene	<0.097		1.96	1.76		ug/L		89	70 - 130
4,4'-DDD	<0.097		1.96	2.05		ug/L		105	70 - 130
4,4'-DDE	<0.097		1.96	2.04		ug/L		104	70 - 130
4,4'-DDT	<0.097		1.96	1.88		ug/L		96	70 - 130
Acenaphthene	<0.097		1.96	1.91		ug/L		98	70 - 130
Acenaphthylene	<0.097		1.96	1.83		ug/L		94	70 - 130
Acetochlor	<0.097		1.96	2.06		ug/L		106	70 - 130
Alachlor	<0.048		1.96	2.08		ug/L		106	70 - 130
alpha-BHC	<0.097		1.96	1.93		ug/L		99	70 - 130
alpha-Chlordane	<0.048		1.96	2.36		ug/L		119	70 - 130
Anthracene	<0.019	F1	1.96	1.06	F1	ug/L		54	70 - 130
Atrazine	<0.048		1.96	2.12		ug/L		108	70 - 130
Benz(a)anthracene	<0.048		1.96	1.73		ug/L		88	70 - 130
Benzo[a]pyrene	<0.019		1.96	1.58		ug/L		80	70 - 130
Benzo[b]fluoranthene	<0.019		1.96	1.95		ug/L		100	70 - 130
Benzo[g,h,i]perylene	<0.048		1.96	2.00		ug/L		102	70 - 130
Benzo[k]fluoranthene	<0.019		1.96	2.00		ug/L		102	70 - 130

QC Sample Results

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

Job ID: 380-187057-1
SDG: Weekly: Moanalua Wells

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

Lab Sample ID: 380-187018-I-1-A MS
Matrix: Water
Analysis Batch: 192249

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 191694

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
beta-BHC	<0.097		1.96	1.96		ug/L		100	70 - 130
Bis(2-ethylhexyl) phthalate	<0.58		1.96	1.79		ug/L		92	70 - 130
Bromacil	<0.097		1.96	1.86		ug/L		93	70 - 130
Butachlor	<0.048		1.96	2.07		ug/L		106	70 - 130
Butylbenzylphthalate	<0.48		1.96	2.24		ug/L		114	70 - 130
Chlorobenzilate	<0.097		1.96	2.03		ug/L		104	70 - 130
Chloroneb	<0.097		1.96	1.87		ug/L		96	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.097		1.96	2.22		ug/L		113	70 - 130
Chlorpyrifos	<0.048		1.96	2.17		ug/L		111	70 - 130
Chrysene	<0.019		1.96	1.88		ug/L		96	70 - 130
delta-BHC	<0.097		1.96	1.91		ug/L		98	70 - 130
Di(2-ethylhexyl)adipate	<0.58		1.96	2.05		ug/L		105	70 - 130
Dibenz(a,h)anthracene	<0.048		1.96	1.82		ug/L		93	70 - 130
Diclorvos (DDVP)	<0.048		1.96	1.69		ug/L		86	70 - 130
Dieldrin	0.072		1.96	2.14		ug/L		106	70 - 130
Diethylphthalate	<0.48		1.96	2.12		ug/L		108	70 - 130
Dimethylphthalate	<0.48		1.96	2.04		ug/L		104	70 - 130
Di-n-butyl phthalate	<0.97		3.91	4.15		ug/L		106	70 - 130
Di-n-octyl phthalate	<0.097		1.96	1.72		ug/L		88	70 - 130
Endosulfan I (Alpha)	<0.097		1.96	1.91		ug/L		98	70 - 130
Endosulfan II (Beta)	<0.097		1.96	1.94		ug/L		99	70 - 130
Endosulfan sulfate	<0.097		1.96	2.19		ug/L		112	70 - 130
Endrin	<0.0097		1.96	2.14		ug/L		109	70 - 130
Endrin aldehyde	<0.097		1.96	1.62		ug/L		83	60 - 130
EPTC	<0.097		1.96	1.99		ug/L		102	70 - 130
Fluoranthene	<0.097		1.96	2.09		ug/L		107	70 - 130
Fluorene	<0.048		1.96	1.93		ug/L		98	70 - 130
gamma-Chlordane	<0.048		1.96	2.38		ug/L		120	70 - 130
Heptachlor	<0.0097		1.96	2.05		ug/L		105	70 - 130
Heptachlor epoxide (isomer B)	0.011		1.96	2.13		ug/L		108	70 - 130
Hexachlorobenzene	<0.048		1.96	2.11		ug/L		108	70 - 130
Hexachlorocyclopentadiene	<0.048		1.96	1.85		ug/L		94	70 - 130
Indeno[1,2,3-cd]pyrene	<0.048		1.96	2.01		ug/L		103	70 - 130
Isophorone	<0.097		1.96	1.95		ug/L		100	70 - 130
Lindane	<0.0097		1.96	1.94		ug/L		99	70 - 130
Malathion	<0.097		1.96	1.91		ug/L		98	70 - 130
Methoxychlor	<0.048		1.96	2.05		ug/L		105	70 - 130
Metolachlor	<0.048		1.96	1.96		ug/L		100	70 - 130
Molinate	<0.097		1.96	2.00		ug/L		102	70 - 130
Naphthalene	<0.097		1.96	1.87		ug/L		96	70 - 130
Parathion	<0.097		1.96	2.18		ug/L		111	70 - 130
Pendimethalin (Penoxaline)	<0.097		1.96	2.06		ug/L		105	70 - 130
Phenanthrene	<0.039		1.96	1.89		ug/L		97	70 - 130
Propachlor	<0.048		1.96	2.10		ug/L		107	70 - 130
Pyrene	<0.048		1.96	2.04		ug/L		104	70 - 130
Simazine	<0.048		1.96	1.91		ug/L		98	70 - 130
Terbacil	<0.097		1.96	1.94		ug/L		99	70 - 130
Terbutylazine	<0.097		1.96	2.24		ug/L		115	70 - 130
Thiobencarb	<0.097		1.96	2.09		ug/L		107	70 - 130

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QC Sample Results

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

Job ID: 380-187057-1
SDG: Weekly: Moanalua Wells

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

Lab Sample ID: 380-187018-I-1-A MS
Matrix: Water
Analysis Batch: 192249

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 191694

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
trans-Nonachlor	<0.048		1.96	2.30		ug/L		117	70 - 130
Trifluralin	<0.097		1.96	2.05		ug/L		105	70 - 130
MS MS									
Surrogate	%Recovery	MS Qualifier	Limits						
2-Nitro-m-xylene	95		70 - 130						
Perylene-d12	95		70 - 130						
Triphenylphosphate	113		70 - 130						

Lab Sample ID: 380-187062-Q-1-B DU
Matrix: Water
Analysis Batch: 192250

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 191694

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
1-Methylnaphthalene	<0.097		<0.096		ug/L		NC	20
2,4'-DDD	<0.097		<0.096		ug/L		NC	20
2,4'-DDE	<0.097		<0.096		ug/L		NC	20
2,4'-DDT	<0.097		<0.096		ug/L		NC	20
2,4-Dinitrotoluene	<0.097		<0.096		ug/L		NC	20
2,6-Dinitrotoluene	<0.097		<0.096		ug/L		NC	20
2-Methylnaphthalene	<0.097		<0.096		ug/L		NC	20
4,4'-DDD	<0.097		<0.096		ug/L		NC	20
4,4'-DDE	<0.097		<0.096		ug/L		NC	20
4,4'-DDT	<0.097		<0.096		ug/L		NC	20
Acenaphthene	<0.097		<0.096		ug/L		NC	20
Acenaphthylene	<0.097		<0.096		ug/L		NC	20
Acetochlor	<0.097		<0.096		ug/L		NC	20
Alachlor	<0.048		<0.048		ug/L		NC	20
alpha-BHC	<0.097		<0.096		ug/L		NC	20
alpha-Chlordane	<0.048		<0.048		ug/L		NC	20
Anthracene	<0.019		<0.019		ug/L		NC	20
Atrazine	<0.048		<0.048		ug/L		NC	20
Benz(a)anthracene	<0.048		<0.048		ug/L		NC	20
Benzo[a]pyrene	<0.019		<0.019		ug/L		NC	20
Benzo[b]fluoranthene	<0.019		<0.019		ug/L		NC	20
Benzo[g,h,i]perylene	<0.048		<0.048		ug/L		NC	20
Benzo[k]fluoranthene	<0.019		<0.019		ug/L		NC	20
beta-BHC	<0.097		<0.096		ug/L		NC	20
Bis(2-ethylhexyl) phthalate	<0.58		<0.58		ug/L		NC	20
Bromacil	<0.097		<0.096		ug/L		NC	20
Butachlor	<0.048		<0.048		ug/L		NC	20
Butylbenzylphthalate	<0.48		<0.48		ug/L		NC	20
Chlorobenzilate	<0.097		<0.096		ug/L		NC	20
Chloroneb	<0.097		<0.096		ug/L		NC	20
Chlorothalonil (Draconil, Bravo)	<0.097		<0.096		ug/L		NC	20
Chlorpyrifos	<0.048		<0.048		ug/L		NC	20
Chrysene	<0.019		<0.019		ug/L		NC	20
delta-BHC	<0.097		<0.096		ug/L		NC	20
Di(2-ethylhexyl)adipate	<0.58		<0.58		ug/L		NC	20

QC Sample Results

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

Job ID: 380-187057-1
 SDG: Weekly: Moanalua Wells

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

Lab Sample ID: 380-187062-Q-1-B DU
Matrix: Water
Analysis Batch: 192250

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 191694

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Dibenz(a,h)anthracene	<0.048		<0.048		ug/L		NC	20
Diclorvos (DDVP)	<0.048		<0.048		ug/L		NC	20
Dieldrin	<0.0097		<0.0096		ug/L		NC	20
Diethylphthalate	<0.48		<0.48		ug/L		NC	20
Dimethylphthalate	<0.48		<0.48		ug/L		NC	20
Di-n-butyl phthalate	<0.97		<0.96		ug/L		NC	20
Di-n-octyl phthalate	<0.097		<0.096		ug/L		NC	20
Endosulfan I (Alpha)	<0.097		<0.096		ug/L		NC	20
Endosulfan II (Beta)	<0.097		<0.096		ug/L		NC	20
Endosulfan sulfate	<0.097		<0.096		ug/L		NC	20
Endrin	<0.0097		<0.0096		ug/L		NC	20
Endrin aldehyde	<0.097		<0.096		ug/L		NC	20
EPTC	<0.097		<0.096		ug/L		NC	20
Fluoranthene	<0.097		<0.096		ug/L		NC	20
Fluorene	<0.048		<0.048		ug/L		NC	20
gamma-Chlordane	<0.048		<0.048		ug/L		NC	20
Heptachlor	<0.0097		<0.0096		ug/L		NC	20
Heptachlor epoxide (isomer B)	<0.0097		<0.0096		ug/L		NC	20
Hexachlorobenzene	<0.048		<0.048		ug/L		NC	20
Hexachlorocyclopentadiene	<0.048		<0.048		ug/L		NC	20
Indeno[1,2,3-cd]pyrene	<0.048		<0.048		ug/L		NC	20
Isophorone	<0.097		<0.096		ug/L		NC	20
Lindane	<0.0097		<0.0096		ug/L		NC	20
Malathion	<0.097		<0.096		ug/L		NC	20
Methoxychlor	<0.048		<0.048		ug/L		NC	20
Metolachlor	<0.048		<0.048		ug/L		NC	20
Molinate	<0.097		<0.096		ug/L		NC	20
Naphthalene	<0.097		<0.096		ug/L		NC	20
Parathion	<0.097		<0.096		ug/L		NC	20
Pendimethalin (Penoxaline)	<0.097		<0.096		ug/L		NC	20
Phenanthrene	<0.039		<0.038		ug/L		NC	20
Propachlor	<0.048		<0.048		ug/L		NC	20
Pyrene	<0.048		<0.048		ug/L		NC	20
Simazine	<0.048		<0.048		ug/L		NC	20
Terbacil	<0.097		<0.096		ug/L		NC	20
Terbutylazine	<0.097		<0.096		ug/L		NC	20
Thiobencarb	<0.097		<0.096		ug/L		NC	20
Total Permethrin (mixed isomers)	<0.19		<0.19		ug/L		NC	20
trans-Nonachlor	<0.048		<0.048		ug/L		NC	20
Trifluralin	<0.097		<0.096		ug/L		NC	20

Surrogate	DU %Recovery	DU Qualifier	Limits
2-Nitro-m-xylene	98		70 - 130
Perylene-d12	83		70 - 130
Triphenylphosphate	133	S1+	70 - 130

QC Sample Results

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

Job ID: 380-187057-1
SDG: Weekly: Moanalua Wells

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

Lab Sample ID: MB 570-668516/1-A
Matrix: Water
Analysis Batch: 676240

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 668516

<i>Tentatively Identified Compound</i>	<i>MB</i>	<i>MB</i>	<i>Unit</i>	<i>D</i>	<i>RT</i>	<i>CAS No.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Tentatively Identified Compound</i>	None	None	ug/L			N/A	12/11/25 12:16	12/29/25 11:17	1

<i>Surrogate</i>	<i>MB</i>	<i>MB</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
	<i>%Recovery</i>	<i>Qualifier</i>				
<i>2,4,6-Tribromophenol (Surr)</i>	12	S1-	33 - 139	12/11/25 12:16	12/29/25 11:17	1
<i>2-Fluorobiphenyl (Surr)</i>	12	S1-	33 - 126	12/11/25 12:16	12/29/25 11:17	1
<i>2-Fluorophenol (Surr)</i>	14		12 - 120	12/11/25 12:16	12/29/25 11:17	1
<i>Nitrobenzene-d5 (Surr)</i>	19	S1-	36 - 120	12/11/25 12:16	12/29/25 11:17	1
<i>Phenol-d6 (Surr)</i>	8	S1-	10 - 120	12/11/25 12:16	12/29/25 11:17	1
<i>p-Terphenyl-d14 (Surr)</i>	19	S1-	47 - 131	12/11/25 12:16	12/29/25 11:17	1

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

Lab Sample ID: MB 570-668516/1-A
Matrix: Water
Analysis Batch: 673714

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 668516

<i>Analyte</i>	<i>MB</i>	<i>MB</i>	<i>RL</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
	<i>Result</i>	<i>Qualifier</i>						
1-Methylnaphthalene	<0.20		0.20	ug/L		12/11/25 12:16	12/22/25 05:27	1
2-Methylnaphthalene	<0.20		0.20	ug/L		12/11/25 12:16	12/22/25 05:27	1
Acenaphthene	<0.20		0.20	ug/L		12/11/25 12:16	12/22/25 05:27	1
Acenaphthylene	<0.20		0.20	ug/L		12/11/25 12:16	12/22/25 05:27	1
Anthracene	<0.20		0.20	ug/L		12/11/25 12:16	12/22/25 05:27	1
Benzo[a]anthracene	<0.20		0.20	ug/L		12/11/25 12:16	12/22/25 05:27	1
Benzo[a]pyrene	<0.20		0.20	ug/L		12/11/25 12:16	12/22/25 05:27	1
Benzo[b]fluoranthene	<0.20		0.20	ug/L		12/11/25 12:16	12/22/25 05:27	1
Benzo[g,h,i]perylene	<0.20		0.20	ug/L		12/11/25 12:16	12/22/25 05:27	1
Benzo[k]fluoranthene	<0.20		0.20	ug/L		12/11/25 12:16	12/22/25 05:27	1
Chrysene	<0.20		0.20	ug/L		12/11/25 12:16	12/22/25 05:27	1
Dibenz(a,h)anthracene	<0.20		0.20	ug/L		12/11/25 12:16	12/22/25 05:27	1
Fluoranthene	<0.20		0.20	ug/L		12/11/25 12:16	12/22/25 05:27	1
Fluorene	<0.20		0.20	ug/L		12/11/25 12:16	12/22/25 05:27	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20	ug/L		12/11/25 12:16	12/22/25 05:27	1
Naphthalene	<0.20		0.20	ug/L		12/11/25 12:16	12/22/25 05:27	1
Phenanthrene	<0.20		0.20	ug/L		12/11/25 12:16	12/22/25 05:27	1
Pyrene	<0.20		0.20	ug/L		12/11/25 12:16	12/22/25 05:27	1

<i>Surrogate</i>	<i>MB</i>	<i>MB</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
	<i>%Recovery</i>	<i>Qualifier</i>				
<i>2,4,6-Tribromophenol (Surr)</i>	19	S1-	28 - 127	12/11/25 12:16	12/22/25 05:27	1
<i>2-Fluorobiphenyl (Surr)</i>	14	S1-	31 - 120	12/11/25 12:16	12/22/25 05:27	1
<i>2-Fluorophenol (Surr)</i>	11	S1-	17 - 120	12/11/25 12:16	12/22/25 05:27	1
<i>Nitrobenzene-d5 (Surr)</i>	15	S1-	27 - 120	12/11/25 12:16	12/22/25 05:27	1
<i>Phenol-d6 (Surr)</i>	8	S1-	10 - 120	12/11/25 12:16	12/22/25 05:27	1
<i>p-Terphenyl-d14 (Surr)</i>	20	S1-	45 - 120	12/11/25 12:16	12/22/25 05:27	1

QC Sample Results

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

Job ID: 380-187057-1
SDG: Weekly: Moanalua Wells

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

Lab Sample ID: LCS 570-668516/2-A
Matrix: Water
Analysis Batch: 673714

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 668516

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	20.0	15.3		ug/L		76	47 - 120
2-Methylnaphthalene	20.0	15.0		ug/L		75	43 - 120
Acenaphthene	20.0	18.6		ug/L		93	60 - 132
Acenaphthylene	20.0	17.1		ug/L		85	54 - 126
Anthracene	20.0	18.7		ug/L		93	43 - 120
Benzo[a]anthracene	20.0	18.9		ug/L		94	42 - 133
Benzo[a]pyrene	20.0	19.6		ug/L		98	32 - 148
Benzo[b]fluoranthene	20.0	19.3		ug/L		97	42 - 140
Benzo[g,h,i]perylene	20.0	19.0		ug/L		95	1 - 195
Benzo[k]fluoranthene	20.0	18.8		ug/L		94	25 - 146
Chrysene	20.0	18.7		ug/L		93	44 - 140
Dibenz(a,h)anthracene	20.0	19.5		ug/L		97	1 - 200
Fluoranthene	20.0	18.6		ug/L		93	43 - 121
Fluorene	20.0	18.5		ug/L		93	70 - 120
Indeno[1,2,3-cd]pyrene	20.0	19.3		ug/L		97	1 - 151
Naphthalene	20.0	14.3		ug/L		72	36 - 120
Phenanthrene	20.0	18.6		ug/L		93	65 - 120
Pyrene	20.0	20.2		ug/L		101	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	86		28 - 127
2-Fluorobiphenyl (Surr)	86		31 - 120
2-Fluorophenol (Surr)	66		17 - 120
Nitrobenzene-d5 (Surr)	73		27 - 120
Phenol-d6 (Surr)	44		10 - 120
p-Terphenyl-d14 (Surr)	88		45 - 120

Lab Sample ID: LCSD 570-668516/3-A
Matrix: Water
Analysis Batch: 673714

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 668516

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	20.0	14.6		ug/L		73	47 - 120	5	20
2-Methylnaphthalene	20.0	14.3		ug/L		72	43 - 120	5	20
Acenaphthene	20.0	17.4		ug/L		87	60 - 132	6	29
Acenaphthylene	20.0	16.3		ug/L		81	54 - 126	5	45
Anthracene	20.0	17.2		ug/L		86	43 - 120	8	40
Benzo[a]anthracene	20.0	17.4		ug/L		87	42 - 133	8	32
Benzo[a]pyrene	20.0	18.2		ug/L		91	32 - 148	8	43
Benzo[b]fluoranthene	20.0	17.9		ug/L		90	42 - 140	8	43
Benzo[g,h,i]perylene	20.0	17.5		ug/L		88	1 - 195	8	61
Benzo[k]fluoranthene	20.0	17.4		ug/L		87	25 - 146	8	38
Chrysene	20.0	17.3		ug/L		86	44 - 140	8	53
Dibenz(a,h)anthracene	20.0	18.3		ug/L		91	1 - 200	6	75
Fluoranthene	20.0	17.4		ug/L		87	43 - 121	6	40
Fluorene	20.0	17.3		ug/L		86	70 - 120	7	23
Indeno[1,2,3-cd]pyrene	20.0	18.0		ug/L		90	1 - 151	7	60
Naphthalene	20.0	13.7		ug/L		68	36 - 120	5	39

Eurofins Pomona

QC Sample Results

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

Job ID: 380-187057-1
 SDG: Weekly: Moanalua Wells

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

Lab Sample ID: LCSD 570-668516/3-A
Matrix: Water
Analysis Batch: 673714

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 668516

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenanthrene	20.0	17.2		ug/L		86	65 - 120	8	24
Pyrene	20.0	18.8		ug/L		94	70 - 120	7	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	82		28 - 127
2-Fluorobiphenyl (Surr)	83		31 - 120
2-Fluorophenol (Surr)	60		17 - 120
Nitrobenzene-d5 (Surr)	70		27 - 120
Phenol-d6 (Surr)	39		10 - 120
p-Terphenyl-d14 (Surr)	83		45 - 120

Lab Sample ID: 380-187025-A-1-B MS
Matrix: Water
Analysis Batch: 673714

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 668516

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.19		19.2	13.8		ug/L		72	36 - 120
2-Methylnaphthalene	<0.19		19.2	13.9		ug/L		73	32 - 124
Acenaphthene	<0.19		19.2	16.7		ug/L		87	47 - 145
Acenaphthylene	<0.19		19.2	16.4		ug/L		86	33 - 145
Anthracene	<0.19		19.2	16.7		ug/L		87	27 - 133
Benzo[a]anthracene	<0.19		19.2	17.1		ug/L		89	33 - 143
Benzo[a]pyrene	<0.19		19.2	17.6		ug/L		92	17 - 163
Benzo[b]fluoranthene	<0.19		19.2	17.2		ug/L		90	24 - 159
Benzo[g,h,i]perylene	<0.19		19.2	16.2		ug/L		84	1 - 219
Benzo[k]fluoranthene	<0.19		19.2	16.7		ug/L		87	11 - 162
Chrysene	<0.19		19.2	17.0		ug/L		89	17 - 168
Dibenz(a,h)anthracene	<0.19		19.2	17.0		ug/L		89	1 - 227
Fluoranthene	<0.19		19.2	16.4		ug/L		86	26 - 137
Fluorene	<0.19		19.2	16.6		ug/L		87	59 - 121
Indeno[1,2,3-cd]pyrene	<0.19		19.2	16.4		ug/L		85	1 - 171
Naphthalene	<0.19		19.2	13.1		ug/L		68	21 - 133
Phenanthrene	<0.19		19.2	16.7		ug/L		87	54 - 120
Pyrene	<0.19		19.2	18.7		ug/L		98	52 - 120

Surrogate	MS %Recovery	MS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	82		28 - 127
2-Fluorobiphenyl (Surr)	84		31 - 120
2-Fluorophenol (Surr)	59		17 - 120
Nitrobenzene-d5 (Surr)	69		27 - 120
Phenol-d6 (Surr)	39		10 - 120
p-Terphenyl-d14 (Surr)	85		45 - 120

QC Sample Results

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

Job ID: 380-187057-1
SDG: Weekly: Moanalua Wells

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

Lab Sample ID: 380-187025-A-1-C MSD
Matrix: Water
Analysis Batch: 673714

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 668516

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
1-Methylnaphthalene	<0.19		19.1	14.1		ug/L		73	36 - 120	2	30
2-Methylnaphthalene	<0.19		19.1	14.1		ug/L		74	32 - 124	1	30
Acenaphthene	<0.19		19.1	17.1		ug/L		90	47 - 145	3	48
Acenaphthylene	<0.19		19.1	16.8		ug/L		88	33 - 145	3	74
Anthracene	<0.19		19.1	17.2		ug/L		90	27 - 133	3	66
Benzo[a]anthracene	<0.19		19.1	17.3		ug/L		90	33 - 143	1	53
Benzo[a]pyrene	<0.19		19.1	17.6		ug/L		92	17 - 163	0	72
Benzo[b]fluoranthene	<0.19		19.1	17.3		ug/L		90	24 - 159	0	71
Benzo[g,h,i]perylene	<0.19		19.1	16.6		ug/L		86	1 - 219	2	97
Benzo[k]fluoranthene	<0.19		19.1	16.7		ug/L		87	11 - 162	0	63
Chrysene	<0.19		19.1	17.1		ug/L		89	17 - 168	0	87
Dibenz(a,h)anthracene	<0.19		19.1	17.4		ug/L		91	1 - 227	2	126
Fluoranthene	<0.19		19.1	17.1		ug/L		89	26 - 137	4	66
Fluorene	<0.19		19.1	16.9		ug/L		88	59 - 121	2	38
Indeno[1,2,3-cd]pyrene	<0.19		19.1	17.0		ug/L		89	1 - 171	4	99
Naphthalene	<0.19		19.1	13.5		ug/L		71	21 - 133	3	65
Phenanthrene	<0.19		19.1	17.3		ug/L		90	54 - 120	3	39
Pyrene	<0.19		19.1	18.7		ug/L		97	52 - 120	0	49

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	88		28 - 127
2-Fluorobiphenyl (Surr)	88		31 - 120
2-Fluorophenol (Surr)	62		17 - 120
Nitrobenzene-d5 (Surr)	75		27 - 120
Phenol-d6 (Surr)	41		10 - 120
p-Terphenyl-d14 (Surr)	88		45 - 120

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

Lab Sample ID: MB 570-673280/6
Matrix: Water
Analysis Batch: 673280

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	<10		10	ug/L			12/20/25 13:00	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		38 - 134		12/20/25 13:00	1

Lab Sample ID: LCS 570-673280/4
Matrix: Water
Analysis Batch: 673280

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (C4-C13)	400	373		ug/L		93	78 - 120

QC Sample Results

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

Job ID: 380-187057-1
SDG: Weekly: Moanalua Wells

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

Lab Sample ID: LCS 570-673280/4
Matrix: Water
Analysis Batch: 673280

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

	LCS	LCS	
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
4-Bromofluorobenzene (Surr)	84		38 - 134

Lab Sample ID: LCSD 570-673280/5
Matrix: Water
Analysis Batch: 673280

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	406		ug/L		101	78 - 120	9	10
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>						
4-Bromofluorobenzene (Surr)	91		38 - 134						

Lab Sample ID: MRL 570-673280/3
Matrix: Water
Analysis Batch: 673280

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (C4-C13)	10.0	13.2		ug/L		132	50 - 150		
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>						
4-Bromofluorobenzene (Surr)	80		38 - 134						

Lab Sample ID: 380-187025-C-1 MS
Matrix: Water
Analysis Batch: 673280

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (C4-C13)	<10		400	382		ug/L		96	68 - 122		
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>								
4-Bromofluorobenzene (Surr)	80		38 - 134								

Lab Sample ID: 380-187025-C-1 MSD
Matrix: Water
Analysis Batch: 673280

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (C4-C13)	<10		400	395		ug/L		99	68 - 122	3	18
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>								
4-Bromofluorobenzene (Surr)	85		38 - 134								

QC Sample Results

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

Job ID: 380-187057-1
SDG: Weekly: Moanalua Wells

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

Lab Sample ID: MB 570-669844/1-A
Matrix: Water
Analysis Batch: 674105

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 669844

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Diesel Range Organics (C10-C24)	<25		25	ug/L		12/14/25 10:45	12/22/25 15:56	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		12/14/25 10:45	12/22/25 15:56	1
C8-C18	<25		25	ug/L		12/14/25 10:45	12/22/25 15:56	1
Surrogate	MB MB		Limits			Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier						
<i>n-Octacosane (Surr)</i>	108		60 - 130			12/14/25 10:45	12/22/25 15:56	1

Lab Sample ID: LCS 570-669844/2-A
Matrix: Water
Analysis Batch: 674105

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 669844

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
C10-C28	1600	1390		ug/L		87	56 - 127
Surrogate	LCS LCS		Limits			%Rec	
	%Recovery	Qualifier					
<i>n-Octacosane (Surr)</i>	102		60 - 130				

Lab Sample ID: LCSD 570-669844/3-A
Matrix: Water
Analysis Batch: 674105

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 669844

Analyte	Spike Added	LCSD LCSD		Unit	D	%Rec	%Rec Limits	RPD	
		Result	Qualifier					RPD	Limit
C10-C28	1600	1460		ug/L		91	56 - 127	5	23
Surrogate	LCSD LCSD		Limits			%Rec			
	%Recovery	Qualifier							
<i>n-Octacosane (Surr)</i>	91		60 - 130						

Lab Sample ID: MRL 570-669844/4-A
Matrix: Water
Analysis Batch: 674105

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 669844

Analyte	Spike Added	MRL MRL		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
C10-C28	0.0200	0.0214	J	mg/L		107	50 - 150
Surrogate	MRL MRL		Limits			%Rec	
	%Recovery	Qualifier					
<i>n-Octacosane (Surr)</i>	86		60 - 130				

Lab Sample ID: 380-187025-B-1-A MS
Matrix: Water
Analysis Batch: 674105

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 669844

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec Limits
				Result	Qualifier				
C10-C28	<26	F1 F2	1660	212	F1	ug/L		13	70 - 130
Surrogate	MS MS		Limits					%Rec	
	%Recovery	Qualifier							
<i>n-Octacosane (Surr)</i>	106		60 - 130						

QC Sample Results

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

Job ID: 380-187057-1
 SDG: Weekly: Moanalua Wells

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

Lab Sample ID: 380-187025-B-1-B MSD
Matrix: Water
Analysis Batch: 674105

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 669844

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28	<26	F1 F2	1670	354	F1 F2	ug/L		21	70 - 130	50	20
Surrogate		<i>MSD</i> %Recovery	<i>MSD</i> Qualifier								Limits
<i>n</i> -Octacosane (Surr)		115									60 - 130

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QC Association Summary

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

Job ID: 380-187057-1
SDG: Weekly: Moanalua Wells

GC/MS Semi VOA

Prep Batch: 191694

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-187057-1	MOANALUA WELLS	Total/NA	Water	525.2	
MB 380-191694/21-A	Method Blank	Total/NA	Water	525.2	
LCS 380-191694/23-A	Lab Control Sample	Total/NA	Water	525.2	
MRL 380-191694/22-A	Lab Control Sample	Total/NA	Water	525.2	
380-187018-I-1-A MS	Matrix Spike	Total/NA	Water	525.2	
380-187062-Q-1-B DU	Duplicate	Total/NA	Water	525.2	

Analysis Batch: 192249

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-187018-I-1-A MS	Matrix Spike	Total/NA	Water	525.2	191694

Analysis Batch: 192250

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-187057-1	MOANALUA WELLS	Total/NA	Water	525.2	191694
MB 380-191694/21-A	Method Blank	Total/NA	Water	525.2	191694
LCS 380-191694/23-A	Lab Control Sample	Total/NA	Water	525.2	191694
MRL 380-191694/22-A	Lab Control Sample	Total/NA	Water	525.2	191694
380-187062-Q-1-B DU	Duplicate	Total/NA	Water	525.2	191694

Prep Batch: 668516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-187057-1	MOANALUA WELLS	Total/NA	Water	625.1	
MB 570-668516/1-A	Method Blank	Total/NA	Water	625.1	
LCS 570-668516/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 570-668516/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	
380-187025-A-1-B MS	Matrix Spike	Total/NA	Water	625.1	
380-187025-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	625.1	

Analysis Batch: 673714

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-187057-1	MOANALUA WELLS	Total/NA	Water	625.1 SIM	668516
MB 570-668516/1-A	Method Blank	Total/NA	Water	625.1 SIM	668516
LCS 570-668516/2-A	Lab Control Sample	Total/NA	Water	625.1 SIM	668516
LCSD 570-668516/3-A	Lab Control Sample Dup	Total/NA	Water	625.1 SIM	668516
380-187025-A-1-B MS	Matrix Spike	Total/NA	Water	625.1 SIM	668516
380-187025-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	625.1 SIM	668516

Analysis Batch: 676240

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-187057-1	MOANALUA WELLS	Total/NA	Water	625.1	668516
MB 570-668516/1-A	Method Blank	Total/NA	Water	625.1	668516

GC VOA

Analysis Batch: 673280

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-187057-1	MOANALUA WELLS	Total/NA	Water	8015B GRO LL	
380-187057-2	TB:MOANALUA WELLS	Total/NA	Water	8015B GRO LL	
MB 570-673280/6	Method Blank	Total/NA	Water	8015B GRO LL	
LCS 570-673280/4	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-673280/5	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	

QC Association Summary

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

Job ID: 380-187057-1
 SDG: Weekly: Moanalua Wells

GC VOA (Continued)

Analysis Batch: 673280 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MRL 570-673280/3	Lab Control Sample	Total/NA	Water	8015B GRO LL	
380-187025-C-1 MS	Matrix Spike	Total/NA	Water	8015B GRO LL	
380-187025-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8015B GRO LL	

GC Semi VOA

Prep Batch: 669844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-187057-1	MOANALUA WELLS	Total/NA	Water	3510C	
MB 570-669844/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-669844/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-669844/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-669844/4-A	Lab Control Sample	Total/NA	Water	3510C	
380-187025-B-1-A MS	Matrix Spike	Total/NA	Water	3510C	
380-187025-B-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

Analysis Batch: 674105

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-187057-1	MOANALUA WELLS	Total/NA	Water	8015B	669844
MB 570-669844/1-A	Method Blank	Total/NA	Water	8015B	669844
LCS 570-669844/2-A	Lab Control Sample	Total/NA	Water	8015B	669844
LCSD 570-669844/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	669844
MRL 570-669844/4-A	Lab Control Sample	Total/NA	Water	8015B	669844
380-187025-B-1-A MS	Matrix Spike	Total/NA	Water	8015B	669844
380-187025-B-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	8015B	669844

Lab Chronicle

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

Job ID: 380-187057-1
 SDG: Weekly: Moanalua Wells

Client Sample ID: MOANALUA WELLS

Lab Sample ID: 380-187057-1

Date Collected: 12/08/25 09:44

Matrix: Water

Date Received: 12/10/25 09:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			191694	OTM3	EA POM	12/11/25 08:04
Total/NA	Analysis	525.2		1	192250	Q8LA	EA POM	12/14/25 16:23
Total/NA	Prep	625.1			668516	VAW2	EET CAL 4	12/11/25 12:16
Total/NA	Analysis	625.1		1	676240	PQS1	EET CAL 4	12/29/25 15:12
Total/NA	Prep	625.1			668516	VAW2	EET CAL 4	12/11/25 12:16
Total/NA	Analysis	625.1 SIM		1	673714	PQS1	EET CAL 4	12/22/25 16:01
Total/NA	Analysis	8015B GRO LL		1	673280	YD9V	EET CAL 4	12/20/25 16:39
Total/NA	Prep	3510C			669844	TVD6	EET CAL 4	12/14/25 10:45
Total/NA	Analysis	8015B		1	674105	NR	EET CAL 4	12/22/25 19:52

Client Sample ID: TB:MOANALUA WELLS

Lab Sample ID: 380-187057-2

Date Collected: 12/08/25 09:44

Matrix: Water

Date Received: 12/10/25 09:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	673280	YD9V	EET CAL 4	12/20/25 21:26

Laboratory References:

EA POM = Eurofins Pomona, 941 Corporate Center Drive, Pomona, CA 91768-2642, TEL (626)386-1100

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Accreditation/Certification Summary

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

Job ID: 380-187057-1
SDG: Weekly: Moanalua Wells

Laboratory: Eurofins Pomona

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

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

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

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

Laboratory: Eurofins Calscience

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

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	7296.01	11-30-26
A2LA	ISO/IEC 17025	7296.01	11-30-26
Alaska (UST)	State	25-005	03-02-26
Arizona	State	AZ0830	11-17-26
California	Los Angeles County Sanitation Districts	9257304	07-31-26
California	State	3082	07-31-26

Accreditation/Certification Summary

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

Job ID: 380-187057-1
SDG: Weekly: Moanalua Wells

Laboratory: Eurofins Calscience (Continued)

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

Authority	Program	Identification Number	Expiration Date
Kansas	NELAP	E-10420	07-31-26
Nevada	State	CA00111	07-31-26
Oregon	NELAP	4175	02-02-26
USDA	US Federal Programs	525-23-159-97150	06-08-26
Utah	NELAP	CA00111	02-28-26
Washington	State	C916	10-11-26

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Method Summary

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

Job ID: 380-187057-1
SDG: Weekly: Moanalua Wells

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

Protocol References:

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

EPA = US Environmental Protection Agency

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

Laboratory References:

EA POM = Eurofins Pomona, 941 Corporate Center Drive, Pomona, CA 91768-2642, TEL (626)386-1100

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Sample Summary

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

Job ID: 380-187057-1
SDG: Weekly: Moanalua Wells

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
380-187057-1	MOANALUA WELLS	Water	12/08/25 09:44	12/10/25 09:42	Hawaii
380-187057-2	TB:MOANALUA WELLS	Water	12/08/25 09:44	12/10/25 09:42	Hawaii

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

SHIP DATE: 09DEC25
ACTWGT: 57.00 LB
CAD: 258050552/NET4535

BILL RECIPIENT

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

POMONA CA 91768

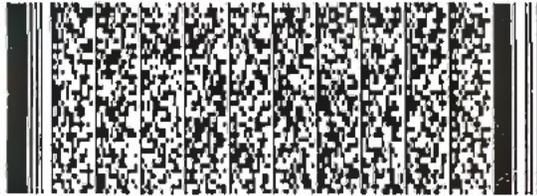
(626) 386-1100

REF:

INV:

PO:

DEPT:



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Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-187057-1
SDG Number: Weekly: Moanalua Wells

Login Number: 187057

List Number: 1

Creator: Tran, Kristine

List Source: Eurofins Pomona

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



Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-187057-1
SDG Number: Weekly: Moanalua Wells

Login Number: 187057

List Number: 2

Creator: Khana, Piyush

List Source: Eurofins Calscience

List Creation: 12/10/25 07:52 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.5
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 <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	