

ANALYTICAL REPORT

PREPARED FOR

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JOB DESCRIPTION

RED-HILL
Weekly: Moanalua Wells

JOB NUMBER

380-188300-1

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



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Definitions/Glossary

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

Job ID: 380-188300-1
SDG: Weekly: Moanalua Wells

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
^3+	Reporting Limit Check Standard is outside acceptance limits, high biased
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA TICs

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

GC Semi VOA

Qualifier	Qualifier Description
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: 380-188300-1

Job ID: 380-188300-1

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Job Narrative 380-188300-1

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 12/17/2025 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 1.2°C, 1.5°C and 2.5°C.

GC/MS Semi VOA

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

Gasoline Range Organics

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

Diesel Range Organics

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

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Detection Summary

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

Job ID: 380-188300-1
SDG: Weekly: Moanalua Wells

Client Sample ID: MOANALUA WELLS

Lab Sample ID: 380-188300-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Dieldrin	0.020		0.0099	ug/L	1		525.2	Total/NA

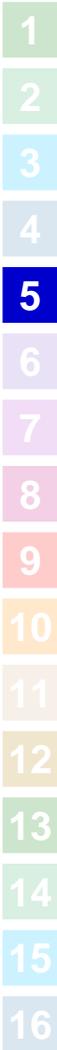
Client Sample ID: TB: MOANALUA WELLS

Lab Sample ID: 380-188300-2

No Detections.

This Detection Summary does not include radiochemical test results.

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Client Sample Results

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

Job ID: 380-188300-1
SDG: Weekly: Moanalua Wells

Client Sample ID: MOANALUA WELLS

Lab Sample ID: 380-188300-1

Date Collected: 12/15/25 10:07

Matrix: Water

Date Received: 12/17/25 10:30

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		12/17/25 15:48	12/18/25 14:47	1
2,4'-DDD	<0.099		0.099	ug/L		12/17/25 15:48	12/18/25 14:47	1
2,4'-DDE	<0.099		0.099	ug/L		12/17/25 15:48	12/18/25 14:47	1
2,4'-DDT	<0.099		0.099	ug/L		12/17/25 15:48	12/18/25 14:47	1
2,4-Dinitrotoluene	<0.099		0.099	ug/L		12/17/25 15:48	12/18/25 14:47	1
2,6-Dinitrotoluene	<0.099		0.099	ug/L		12/17/25 15:48	12/18/25 14:47	1
2-Methylnaphthalene	<0.099		0.099	ug/L		12/17/25 15:48	12/18/25 14:47	1
4,4'-DDD	<0.099		0.099	ug/L		12/17/25 15:48	12/18/25 14:47	1
4,4'-DDE	<0.099		0.099	ug/L		12/17/25 15:48	12/18/25 14:47	1
4,4'-DDT	<0.099		0.099	ug/L		12/17/25 15:48	12/18/25 14:47	1
Acenaphthene	<0.099		0.099	ug/L		12/17/25 15:48	12/18/25 14:47	1
Acenaphthylene	<0.099		0.099	ug/L		12/17/25 15:48	12/18/25 14:47	1
Acetochlor	<0.099		0.099	ug/L		12/17/25 15:48	12/18/25 14:47	1
Alachlor	<0.049		0.049	ug/L		12/17/25 15:48	12/18/25 14:47	1
alpha-BHC	<0.099		0.099	ug/L		12/17/25 15:48	12/18/25 14:47	1
alpha-Chlordane	<0.049		0.049	ug/L		12/17/25 15:48	12/18/25 14:47	1
Anthracene	<0.020		0.020	ug/L		12/17/25 15:48	12/18/25 14:47	1
Atrazine	<0.049		0.049	ug/L		12/17/25 15:48	12/18/25 14:47	1
Benz(a)anthracene	<0.049		0.049	ug/L		12/17/25 15:48	12/18/25 14:47	1
Benzo[a]pyrene	<0.020		0.020	ug/L		12/17/25 15:48	12/18/25 14:47	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		12/17/25 15:48	12/18/25 14:47	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		12/17/25 15:48	12/18/25 14:47	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		12/17/25 15:48	12/18/25 14:47	1
beta-BHC	<0.099		0.099	ug/L		12/17/25 15:48	12/18/25 14:47	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		12/17/25 15:48	12/18/25 14:47	1
Bromacil	<0.099		0.099	ug/L		12/17/25 15:48	12/18/25 14:47	1
Butachlor	<0.049		0.049	ug/L		12/17/25 15:48	12/18/25 14:47	1
Butylbenzylphthalate	<0.49		0.49	ug/L		12/17/25 15:48	12/18/25 14:47	1
Chlorobenzilate	<0.099		0.099	ug/L		12/17/25 15:48	12/18/25 14:47	1
Chloroneb	<0.099		0.099	ug/L		12/17/25 15:48	12/18/25 14:47	1
Chlorothalonil (Draconil, Bravo)	<0.099		0.099	ug/L		12/17/25 15:48	12/18/25 14:47	1
Chlorpyrifos	<0.049		0.049	ug/L		12/17/25 15:48	12/18/25 14:47	1
Chrysene	<0.020		0.020	ug/L		12/17/25 15:48	12/18/25 14:47	1
delta-BHC	<0.099		0.099	ug/L		12/17/25 15:48	12/18/25 14:47	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		12/17/25 15:48	12/18/25 14:47	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		12/17/25 15:48	12/18/25 14:47	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		12/17/25 15:48	12/18/25 14:47	1
Dieldrin	0.020		0.0099	ug/L		12/17/25 15:48	12/23/25 12:45	1
Diethylphthalate	<0.49		0.49	ug/L		12/17/25 15:48	12/18/25 14:47	1
Dimethylphthalate	<0.49		0.49	ug/L		12/17/25 15:48	12/18/25 14:47	1
Di-n-butyl phthalate	<0.99		0.99	ug/L		12/17/25 15:48	12/18/25 14:47	1
Di-n-octyl phthalate	<0.099		0.099	ug/L		12/17/25 15:48	12/18/25 14:47	1
Endosulfan I (Alpha)	<0.099		0.099	ug/L		12/17/25 15:48	12/18/25 14:47	1
Endosulfan II (Beta)	<0.099		0.099	ug/L		12/17/25 15:48	12/18/25 14:47	1
Endosulfan sulfate	<0.099		0.099	ug/L		12/17/25 15:48	12/18/25 14:47	1
Endrin	<0.0099		0.0099	ug/L		12/17/25 15:48	12/18/25 14:47	1
Endrin aldehyde	<0.099		0.099	ug/L		12/17/25 15:48	12/18/25 14:47	1
EPTC	<0.099		0.099	ug/L		12/17/25 15:48	12/18/25 14:47	1
Fluoranthene	<0.099		0.099	ug/L		12/17/25 15:48	12/18/25 14:47	1

Client Sample Results

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

Job ID: 380-188300-1
SDG: Weekly: Moanalua Wells

Client Sample ID: MOANALUA WELLS

Lab Sample ID: 380-188300-1

Date Collected: 12/15/25 10:07

Matrix: Water

Date Received: 12/17/25 10:30

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	<0.049		0.049	ug/L		12/17/25 15:48	12/18/25 14:47	1
gamma-Chlordane	<0.049		0.049	ug/L		12/17/25 15:48	12/18/25 14:47	1
Heptachlor	<0.0099		0.0099	ug/L		12/17/25 15:48	12/18/25 14:47	1
Heptachlor epoxide (isomer B)	<0.0099		0.0099	ug/L		12/17/25 15:48	12/18/25 14:47	1
Hexachlorobenzene	<0.049		0.049	ug/L		12/17/25 15:48	12/18/25 14:47	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		12/17/25 15:48	12/18/25 14:47	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		12/17/25 15:48	12/18/25 14:47	1
Isophorone	<0.099		0.099	ug/L		12/17/25 15:48	12/18/25 14:47	1
Lindane	<0.0099		0.0099	ug/L		12/17/25 15:48	12/18/25 14:47	1
Malathion	<0.099		0.099	ug/L		12/17/25 15:48	12/18/25 14:47	1
Methoxychlor	<0.049		0.049	ug/L		12/17/25 15:48	12/18/25 14:47	1
Metolachlor	<0.049		0.049	ug/L		12/17/25 15:48	12/18/25 14:47	1
Molinate	<0.099		0.099	ug/L		12/17/25 15:48	12/18/25 14:47	1
Naphthalene	<0.099		0.099	ug/L		12/17/25 15:48	12/18/25 14:47	1
Parathion	<0.099		0.099	ug/L		12/17/25 15:48	12/18/25 14:47	1
Pendimethalin (Penoxaline)	<0.099		0.099	ug/L		12/17/25 15:48	12/18/25 14:47	1
Phenanthrene	<0.039		0.039	ug/L		12/17/25 15:48	12/18/25 14:47	1
Propachlor	<0.049		0.049	ug/L		12/17/25 15:48	12/18/25 14:47	1
Pyrene	<0.049		0.049	ug/L		12/17/25 15:48	12/18/25 14:47	1
Simazine	<0.049		0.049	ug/L		12/17/25 15:48	12/18/25 14:47	1
Terbacil	<0.099		0.099	ug/L		12/17/25 15:48	12/18/25 14:47	1
Terbutylazine	<0.099		0.099	ug/L		12/17/25 15:48	12/18/25 14:47	1
Thiobencarb	<0.099		0.099	ug/L		12/17/25 15:48	12/18/25 14:47	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		12/17/25 15:48	12/18/25 14:47	1
trans-Nonachlor	<0.049		0.049	ug/L		12/17/25 15:48	12/18/25 14:47	1
Trifluralin	<0.099		0.099	ug/L		12/17/25 15:48	12/18/25 14:47	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	0.71	T J	ug/L		3.00	N/A	12/17/25 15:48	12/23/25 12:45	1
Undecane	3.0	T J N	ug/L		3.15	1120-21-4	12/17/25 15:48	12/23/25 12:45	1
Cyclohexasiloxane, dodecamethyl-	0.89	T J N	ug/L		3.90	540-97-6	12/17/25 15:48	12/23/25 12:45	1
Hexazinone	0.12		ug/L		8.36	51235-04-2	12/17/25 15:48	12/18/25 14:47	1
13-Docosenamide, (Z)-	0.78	T J N	ug/L		10.55	112-84-5	12/17/25 15:48	12/23/25 12:45	1
Unknown	0.76	T J	ug/L		15.16	N/A	12/17/25 15:48	12/23/25 12:45	1
Tentatively Identified Compound	None		ug/L			N/A	12/17/25 15:48	12/18/25 14:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	97		70 - 130	12/17/25 15:48	12/18/25 14:47	1
2-Nitro-m-xylene	97		70 - 130	12/17/25 15:48	12/23/25 12:45	1
Perylene-d12	75		70 - 130	12/17/25 15:48	12/18/25 14:47	1
Perylene-d12	77		70 - 130	12/17/25 15:48	12/23/25 12:45	1
Triphenylphosphate	110		70 - 130	12/17/25 15:48	12/18/25 14:47	1
Triphenylphosphate	105		70 - 130	12/17/25 15:48	12/23/25 12:45	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		12/17/25 22:00	12/26/25 13:56	1
2-Methylnaphthalene	<0.19		0.19	ug/L		12/17/25 22:00	12/26/25 13:56	1
Acenaphthene	<0.19		0.19	ug/L		12/17/25 22:00	12/26/25 13:56	1
Acenaphthylene	<0.19		0.19	ug/L		12/17/25 22:00	12/26/25 13:56	1

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Client Sample Results

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

Job ID: 380-188300-1
SDG: Weekly: Moanalua Wells

Client Sample ID: MOANALUA WELLS

Lab Sample ID: 380-188300-1

Date Collected: 12/15/25 10:07

Matrix: Water

Date Received: 12/17/25 10:30

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	<0.19		0.19	ug/L		12/17/25 22:00	12/26/25 13:56	1
Benzo[a]anthracene	<0.19		0.19	ug/L		12/17/25 22:00	12/26/25 13:56	1
Benzo[a]pyrene	<0.19		0.19	ug/L		12/17/25 22:00	12/26/25 13:56	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		12/17/25 22:00	12/26/25 13:56	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		12/17/25 22:00	12/26/25 13:56	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		12/17/25 22:00	12/26/25 13:56	1
Chrysene	<0.19		0.19	ug/L		12/17/25 22:00	12/26/25 13:56	1
Dibenz(a,h)anthracene	<0.19		0.19	ug/L		12/17/25 22:00	12/26/25 13:56	1
Fluoranthene	<0.19		0.19	ug/L		12/17/25 22:00	12/26/25 13:56	1
Fluorene	<0.19		0.19	ug/L		12/17/25 22:00	12/26/25 13:56	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		12/17/25 22:00	12/26/25 13:56	1
Naphthalene	<0.19		0.19	ug/L		12/17/25 22:00	12/26/25 13:56	1
Phenanthrene	<0.19		0.19	ug/L		12/17/25 22:00	12/26/25 13:56	1
Pyrene	<0.19		0.19	ug/L		12/17/25 22:00	12/26/25 13:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	88		28 - 127	12/17/25 22:00	12/26/25 13:56	1
2-Fluorobiphenyl (Surr)	79		31 - 120	12/17/25 22:00	12/26/25 13:56	1
2-Fluorophenol (Surr)	54		17 - 120	12/17/25 22:00	12/26/25 13:56	1
Nitrobenzene-d5 (Surr)	80		27 - 120	12/17/25 22:00	12/26/25 13:56	1
Phenol-d6 (Surr)	34		10 - 120	12/17/25 22:00	12/26/25 13:56	1
p-Terphenyl-d14 (Surr)	79		45 - 120	12/17/25 22:00	12/26/25 13:56	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	12/17/25 22:00	12/29/25 17:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	70		33 - 139	12/17/25 22:00	12/29/25 17:09	1
2-Fluorobiphenyl (Surr)	78		33 - 126	12/17/25 22:00	12/29/25 17:09	1
2-Fluorophenol (Surr)	59		12 - 120	12/17/25 22:00	12/29/25 17:09	1
Nitrobenzene-d5 (Surr)	89		36 - 120	12/17/25 22:00	12/29/25 17:09	1
Phenol-d6 (Surr)	28		10 - 120	12/17/25 22:00	12/29/25 17:09	1
p-Terphenyl-d14 (Surr)	83		47 - 131	12/17/25 22:00	12/29/25 17:09	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			12/27/25 20:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		38 - 134		12/27/25 20:13	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<26		26	ug/L		12/18/25 08:24	01/07/26 00:01	1
Motor Oil Range Organics [C24-C36]	<26		26	ug/L		12/18/25 08:24	01/07/26 00:01	1
C8-C18	<26		26	ug/L		12/18/25 08:24	01/07/26 00:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	97		60 - 130	12/18/25 08:24	01/07/26 00:01	1

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Client Sample Results

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

Job ID: 380-188300-1
 SDG: Weekly: Moanalua Wells

Client Sample ID: TB: MOANALUA WELLS

Lab Sample ID: 380-188300-2

Date Collected: 12/15/25 10:07

Matrix: Water

Date Received: 12/17/25 10:30

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			12/27/25 17:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		38 - 134				12/27/25 17:40	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: 380-188300-1
SDG: Weekly: Moanalua Wells

Client Sample ID: MOANALUA WELLS

Lab Sample ID: 380-188300-1

Compliance Check

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

Analyte	Result	Qualifier	Unit	EPAMCL Limit	RL	Method	Prep Type
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)	<0.0099		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

Surrogate Summary

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

Job ID: 380-188300-1
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)
380-188296-I-1-A MS	Matrix Spike	100	97	116
380-188296-I-1-A MS	Matrix Spike	99	97	109
380-188299-I-1-A DU	Duplicate	98	93	110
380-188299-I-1-A DU	Duplicate	96	92	106
380-188300-1	MOANALUA WELLS	97	75	110
380-188300-1	MOANALUA WELLS	97	77	105
LCS 380-193113/23-A	Lab Control Sample	96	97	110
MB 380-193113/21-A	Method Blank	97	88	110
MRL 380-193113/22-A	Lab Control Sample	96	85	110
MRL 380-193113/22-A	Lab Control Sample	94	77	104

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)
380-188300-1	MOANALUA WELLS	70	78	59	89	28	83
MB 570-671320/1-A	Method Blank	71	81	58	83	32	82

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

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)
380-188300-1	MOANALUA WELLS	88	79	54	80	34	79
LCS 570-671320/2-A	Lab Control Sample	75	73	58	63	38	77
LCSD 570-671320/3-A	Lab Control Sample Dup	84	85	63	71	41	83
MB 570-671320/1-A	Method Blank	84	78	52	76	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)

Surrogate Summary

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

Job ID: 380-188300-1
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)
380-188300-1	MOANALUA WELLS	100
380-188300-2	TB: MOANALUA WELLS	102
380-188308-C-1 MS	Matrix Spike	104
380-188308-C-1 MSD	Matrix Spike Duplicate	95
LCS 570-675780/1010	Lab Control Sample	101
LCSD 570-675780/11	Lab Control Sample Dup	98
MB 570-675780/12	Method Blank	100
MRL 570-675780/1005	Lab Control Sample	93

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)
380-188300-1 - RA	MOANALUA WELLS	97
380-188308-B-1-A MS	Matrix Spike	129
380-188308-B-1-B MSD	Matrix Spike Duplicate	121
LCS 570-671434/2-A	Lab Control Sample	105
LCSD 570-671434/3-A	Lab Control Sample Dup	99
MB 570-671434/1-A	Method Blank	109
MRL 570-671434/4-A	Lab Control Sample	111

Surrogate Legend

OTCSN = n-Octacosane (Surr)

QC Sample Results

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

Job ID: 380-188300-1
 SDG: Weekly: Moanalua Wells

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

Lab Sample ID: MB 380-193113/21-A
Matrix: Water
Analysis Batch: 193259

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 193113

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1-Methylnaphthalene	<0.098		0.098	ug/L		12/17/25 15:48	12/18/25 12:46	1
2,4'-DDD	<0.098		0.098	ug/L		12/17/25 15:48	12/18/25 12:46	1
2,4'-DDE	<0.098		0.098	ug/L		12/17/25 15:48	12/18/25 12:46	1
2,4'-DDT	<0.098		0.098	ug/L		12/17/25 15:48	12/18/25 12:46	1
2,4-Dinitrotoluene	<0.098		0.098	ug/L		12/17/25 15:48	12/18/25 12:46	1
2,6-Dinitrotoluene	<0.098		0.098	ug/L		12/17/25 15:48	12/18/25 12:46	1
2-Methylnaphthalene	<0.098		0.098	ug/L		12/17/25 15:48	12/18/25 12:46	1
4,4'-DDD	<0.098		0.098	ug/L		12/17/25 15:48	12/18/25 12:46	1
4,4'-DDE	<0.098		0.098	ug/L		12/17/25 15:48	12/18/25 12:46	1
4,4'-DDT	<0.098		0.098	ug/L		12/17/25 15:48	12/18/25 12:46	1
Acenaphthene	<0.098		0.098	ug/L		12/17/25 15:48	12/18/25 12:46	1
Acenaphthylene	<0.098		0.098	ug/L		12/17/25 15:48	12/18/25 12:46	1
Acetochlor	<0.098		0.098	ug/L		12/17/25 15:48	12/18/25 12:46	1
Alachlor	<0.049		0.049	ug/L		12/17/25 15:48	12/18/25 12:46	1
alpha-BHC	<0.098		0.098	ug/L		12/17/25 15:48	12/18/25 12:46	1
alpha-Chlordane	<0.049		0.049	ug/L		12/17/25 15:48	12/18/25 12:46	1
Anthracene	<0.020		0.020	ug/L		12/17/25 15:48	12/18/25 12:46	1
Atrazine	<0.049		0.049	ug/L		12/17/25 15:48	12/18/25 12:46	1
Benz(a)anthracene	<0.049		0.049	ug/L		12/17/25 15:48	12/18/25 12:46	1
Benzo[a]pyrene	<0.020		0.020	ug/L		12/17/25 15:48	12/18/25 12:46	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		12/17/25 15:48	12/18/25 12:46	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		12/17/25 15:48	12/18/25 12:46	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		12/17/25 15:48	12/18/25 12:46	1
beta-BHC	<0.098		0.098	ug/L		12/17/25 15:48	12/18/25 12:46	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		12/17/25 15:48	12/18/25 12:46	1
Bromacil	<0.098		0.098	ug/L		12/17/25 15:48	12/18/25 12:46	1
Butachlor	<0.049		0.049	ug/L		12/17/25 15:48	12/18/25 12:46	1
Butylbenzylphthalate	<0.49		0.49	ug/L		12/17/25 15:48	12/18/25 12:46	1
Chlorobenzilate	<0.098		0.098	ug/L		12/17/25 15:48	12/18/25 12:46	1
Chloroneb	<0.098		0.098	ug/L		12/17/25 15:48	12/18/25 12:46	1
Chlorothalonil (Draconil, Bravo)	<0.098		0.098	ug/L		12/17/25 15:48	12/18/25 12:46	1
Chlorpyrifos	<0.049		0.049	ug/L		12/17/25 15:48	12/18/25 12:46	1
Chrysene	<0.020		0.020	ug/L		12/17/25 15:48	12/18/25 12:46	1
delta-BHC	<0.098		0.098	ug/L		12/17/25 15:48	12/18/25 12:46	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		12/17/25 15:48	12/18/25 12:46	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		12/17/25 15:48	12/18/25 12:46	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		12/17/25 15:48	12/18/25 12:46	1
Dieldrin	<0.0098	^3+	0.0098	ug/L		12/17/25 15:48	12/18/25 12:46	1
Diethylphthalate	<0.49		0.49	ug/L		12/17/25 15:48	12/18/25 12:46	1
Dimethylphthalate	<0.49		0.49	ug/L		12/17/25 15:48	12/18/25 12:46	1
Di-n-butyl phthalate	<0.98		0.98	ug/L		12/17/25 15:48	12/18/25 12:46	1
Di-n-octyl phthalate	<0.098		0.098	ug/L		12/17/25 15:48	12/18/25 12:46	1
Endosulfan I (Alpha)	<0.098		0.098	ug/L		12/17/25 15:48	12/18/25 12:46	1
Endosulfan II (Beta)	<0.098		0.098	ug/L		12/17/25 15:48	12/18/25 12:46	1
Endosulfan sulfate	<0.098		0.098	ug/L		12/17/25 15:48	12/18/25 12:46	1
Endrin	<0.0098		0.0098	ug/L		12/17/25 15:48	12/18/25 12:46	1
Endrin aldehyde	<0.098		0.098	ug/L		12/17/25 15:48	12/18/25 12:46	1
EPTC	<0.098		0.098	ug/L		12/17/25 15:48	12/18/25 12:46	1

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QC Sample Results

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

Job ID: 380-188300-1
SDG: Weekly: Moanalua Wells

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

Lab Sample ID: MB 380-193113/21-A
Matrix: Water
Analysis Batch: 193259

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 193113

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Fluoranthene	<0.098		0.098	ug/L		12/17/25 15:48	12/18/25 12:46	1
Fluorene	<0.049		0.049	ug/L		12/17/25 15:48	12/18/25 12:46	1
gamma-Chlordane	<0.049		0.049	ug/L		12/17/25 15:48	12/18/25 12:46	1
Heptachlor	<0.0098		0.0098	ug/L		12/17/25 15:48	12/18/25 12:46	1
Heptachlor epoxide (isomer B)	<0.0098		0.0098	ug/L		12/17/25 15:48	12/18/25 12:46	1
Hexachlorobenzene	<0.049		0.049	ug/L		12/17/25 15:48	12/18/25 12:46	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		12/17/25 15:48	12/18/25 12:46	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		12/17/25 15:48	12/18/25 12:46	1
Isophorone	<0.098		0.098	ug/L		12/17/25 15:48	12/18/25 12:46	1
Lindane	<0.0098		0.0098	ug/L		12/17/25 15:48	12/18/25 12:46	1
Malathion	<0.098		0.098	ug/L		12/17/25 15:48	12/18/25 12:46	1
Methoxychlor	<0.049		0.049	ug/L		12/17/25 15:48	12/18/25 12:46	1
Metolachlor	<0.049		0.049	ug/L		12/17/25 15:48	12/18/25 12:46	1
Molinate	<0.098		0.098	ug/L		12/17/25 15:48	12/18/25 12:46	1
Naphthalene	<0.098		0.098	ug/L		12/17/25 15:48	12/18/25 12:46	1
Parathion	<0.098		0.098	ug/L		12/17/25 15:48	12/18/25 12:46	1
Pendimethalin (Penoxaline)	<0.098		0.098	ug/L		12/17/25 15:48	12/18/25 12:46	1
Phenanthrene	<0.039		0.039	ug/L		12/17/25 15:48	12/18/25 12:46	1
Propachlor	<0.049		0.049	ug/L		12/17/25 15:48	12/18/25 12:46	1
Pyrene	<0.049		0.049	ug/L		12/17/25 15:48	12/18/25 12:46	1
Simazine	<0.049		0.049	ug/L		12/17/25 15:48	12/18/25 12:46	1
Terbacil	<0.098		0.098	ug/L		12/17/25 15:48	12/18/25 12:46	1
Terbutylazine	<0.098		0.098	ug/L		12/17/25 15:48	12/18/25 12:46	1
Thiobencarb	<0.098		0.098	ug/L		12/17/25 15:48	12/18/25 12:46	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		12/17/25 15:48	12/18/25 12:46	1
trans-Nonachlor	<0.049		0.049	ug/L		12/17/25 15:48	12/18/25 12:46	1
Trifluralin	<0.098		0.098	ug/L		12/17/25 15:48	12/18/25 12:46	1

Tentatively Identified Compound	MB	MB	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
	Est. Result	Qualifier							
Cyclopentene, 1,2,3,4,5-pentamethyl-	1.04	T J N	ug/L		2.56	1000154-28-6	12/17/25 15:48	12/18/25 12:46	1
Unknown	0.802	T J	ug/L		3.02	N/A	12/17/25 15:48	12/18/25 12:46	1
Undecane	2.44	T J N	ug/L		3.16	1120-21-4	12/17/25 15:48	12/18/25 12:46	1
Plumbane, diethyldimethyl-	0.632	T J N	ug/L		3.29	1762-27-2	12/17/25 15:48	12/18/25 12:46	1
Unknown	1.47	T J	ug/L		3.91	N/A	12/17/25 15:48	12/18/25 12:46	1
Unknown	0.600	T J	ug/L		4.55	N/A	12/17/25 15:48	12/18/25 12:46	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Nitro-m-xylene	97		70 - 130	12/17/25 15:48	12/18/25 12:46	1
Perylene-d12	88		70 - 130	12/17/25 15:48	12/18/25 12:46	1
Triphenylphosphate	110		70 - 130	12/17/25 15:48	12/18/25 12:46	1

Lab Sample ID: LCS 380-193113/23-A
Matrix: Water
Analysis Batch: 193259

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 193113

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

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QC Sample Results

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

Job ID: 380-188300-1
SDG: Weekly: Moanalua Wells

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

Lab Sample ID: LCS 380-193113/23-A

Matrix: Water

Analysis Batch: 193259

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 193113

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec Limits
	Added	Result	Qualifier				
2,4'-DDD	1.96	1.96		ug/L		100	70 - 130
2,4'-DDE	1.96	2.11		ug/L		107	70 - 130
2,4'-DDT	1.96	1.84		ug/L		94	70 - 130
2,4-Dinitrotoluene	1.96	1.68		ug/L		86	70 - 130
2,6-Dinitrotoluene	1.96	1.83		ug/L		93	70 - 130
2-Methylnaphthalene	1.96	1.96		ug/L		100	70 - 130
4,4'-DDD	1.96	1.92		ug/L		98	70 - 130
4,4'-DDE	1.96	2.10		ug/L		107	70 - 130
4,4'-DDT	1.96	1.95		ug/L		99	70 - 130
Acenaphthene	1.96	1.99		ug/L		101	70 - 130
Acenaphthylene	1.96	2.08		ug/L		106	70 - 130
Acetochlor	1.96	1.92		ug/L		98	70 - 130
Alachlor	1.96	1.90		ug/L		97	70 - 130
alpha-BHC	1.96	2.15		ug/L		110	70 - 130
alpha-Chlordane	1.96	2.03		ug/L		103	70 - 130
Anthracene	1.96	2.08		ug/L		106	70 - 130
Atrazine	1.96	1.98		ug/L		101	70 - 130
Benz(a)anthracene	1.96	2.23		ug/L		114	70 - 130
Benzo[a]pyrene	1.96	2.17		ug/L		111	70 - 130
Benzo[b]fluoranthene	1.96	2.12		ug/L		108	70 - 130
Benzo[g,h,i]perylene	1.96	1.92		ug/L		98	70 - 130
Benzo[k]fluoranthene	1.96	2.01		ug/L		102	70 - 130
beta-BHC	1.96	2.11		ug/L		108	70 - 130
Bis(2-ethylhexyl) phthalate	1.96	1.95		ug/L		99	70 - 130
Bromacil	1.96	1.57		ug/L		80	70 - 130
Butachlor	1.96	1.97		ug/L		100	70 - 130
Butylbenzylphthalate	1.96	2.28		ug/L		116	70 - 130
Chlorobenzilate	1.96	1.94		ug/L		99	70 - 130
Chloroneb	1.96	2.09		ug/L		107	70 - 130
Chlorothalonil (Draconil, Bravo)	1.96	1.96		ug/L		100	70 - 130
Chlorpyrifos	1.96	2.01		ug/L		102	70 - 130
Chrysene	1.96	2.08		ug/L		106	70 - 130
delta-BHC	1.96	2.06		ug/L		105	70 - 130
Di(2-ethylhexyl)adipate	1.96	2.11		ug/L		108	70 - 130
Dibenz(a,h)anthracene	1.96	1.96		ug/L		100	70 - 130
Diclorvos (DDVP)	1.96	1.92		ug/L		98	70 - 130
Dieldrin	1.96	1.91		ug/L		97	70 - 130
Diethylphthalate	1.96	2.27		ug/L		115	70 - 130
Dimethylphthalate	1.96	2.06		ug/L		105	70 - 130
Di-n-butyl phthalate	3.93	4.15		ug/L		106	70 - 130
Di-n-octyl phthalate	1.96	1.87		ug/L		95	70 - 130
Endosulfan I (Alpha)	1.96	2.10		ug/L		107	70 - 130
Endosulfan II (Beta)	1.96	1.95		ug/L		99	70 - 130
Endosulfan sulfate	1.96	1.85		ug/L		94	70 - 130
Endrin	1.96	2.10		ug/L		107	70 - 130
Endrin aldehyde	1.96	2.06		ug/L		105	60 - 130
EPTC	1.96	2.18		ug/L		111	70 - 130
Fluoranthene	1.96	2.01		ug/L		103	70 - 130
Fluorene	1.96	2.14		ug/L		109	70 - 130

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QC Sample Results

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

Job ID: 380-188300-1
SDG: Weekly: Moanalua Wells

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

Lab Sample ID: LCS 380-193113/23-A

Matrix: Water

Analysis Batch: 193259

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 193113

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
gamma-Chlordane	1.96	2.06		ug/L		105	70 - 130
Heptachlor	1.96	1.84		ug/L		94	70 - 130
Heptachlor epoxide (isomer B)	1.96	2.24		ug/L		114	70 - 130
Hexachlorobenzene	1.96	2.06		ug/L		105	70 - 130
Hexachlorocyclopentadiene	1.96	1.80		ug/L		92	70 - 130
Indeno[1,2,3-cd]pyrene	1.96	2.08		ug/L		106	70 - 130
Isophorone	1.96	1.90		ug/L		97	70 - 130
Lindane	1.96	2.26		ug/L		115	70 - 130
Malathion	1.96	1.92		ug/L		98	70 - 130
Methoxychlor	1.96	2.01		ug/L		102	70 - 130
Metolachlor	1.96	1.97		ug/L		100	70 - 130
Molinate	1.96	2.06		ug/L		105	70 - 130
Naphthalene	1.96	1.88		ug/L		96	70 - 130
Parathion	1.96	1.95		ug/L		99	70 - 130
Pendimethalin (Penoxaline)	1.96	1.82		ug/L		93	70 - 130
Phenanthrene	1.96	1.97		ug/L		100	70 - 130
Propachlor	1.96	2.13		ug/L		108	70 - 130
Pyrene	1.96	2.03		ug/L		103	70 - 130
Simazine	1.96	1.81		ug/L		92	70 - 130
Terbacil	1.96	1.79		ug/L		91	70 - 130
Terbutylazine	1.96	2.05		ug/L		105	70 - 130
Thiobencarb	1.96	2.01		ug/L		102	70 - 130
trans-Nonachlor	1.96	2.05		ug/L		105	70 - 130
Trifluralin	1.96	1.74		ug/L		88	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	96		70 - 130
Perylene-d12	97		70 - 130
Triphenylphosphate	110		70 - 130

Lab Sample ID: MRL 380-193113/22-A

Matrix: Water

Analysis Batch: 193259

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 193113

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	0.0981	0.106		ug/L		108	50 - 150
2,4'-DDD	0.0981	0.0965	J	ug/L		98	50 - 150
2,4'-DDE	0.0981	0.0964	J	ug/L		98	50 - 150
2,4'-DDT	0.0981	0.104		ug/L		106	50 - 150
2,4-Dinitrotoluene	0.0981	0.0885	J	ug/L		90	50 - 150
2,6-Dinitrotoluene	0.0981	0.102		ug/L		104	50 - 150
2-Methylnaphthalene	0.0981	0.102		ug/L		104	50 - 150
4,4'-DDD	0.0981	0.117		ug/L		119	50 - 150
4,4'-DDE	0.0981	0.0882	J	ug/L		90	50 - 150
4,4'-DDT	0.0981	0.114		ug/L		116	50 - 150
Acenaphthene	0.0981	0.0856	J	ug/L		87	50 - 150
Acenaphthylene	0.0981	0.0865	J	ug/L		88	50 - 150
Acetochlor	0.0981	0.109		ug/L		111	50 - 150

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QC Sample Results

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

Job ID: 380-188300-1
SDG: Weekly: Moanalua Wells

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

Lab Sample ID: MRL 380-193113/22-A

Matrix: Water

Analysis Batch: 193259

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 193113

Analyte	Spike	MRL	MRL	Unit	D	%Rec	%Rec Limits
	Added	Result	Qualifier				
Alachlor	0.0490	0.0620		ug/L		126	50 - 150
alpha-BHC	0.0981	0.0947	J	ug/L		97	50 - 150
alpha-Chlordane	0.0245	0.0336	J	ug/L		137	50 - 150
Anthracene	0.0196	0.0210		ug/L		107	50 - 150
Atrazine	0.0490	0.0697		ug/L		142	50 - 150
Benz(a)anthracene	0.0490	0.0574		ug/L		117	50 - 150
Benzo[a]pyrene	0.0196	0.0265		ug/L		135	50 - 150
Benzo[b]fluoranthene	0.0196	0.0256		ug/L		131	50 - 150
Benzo[g,h,i]perylene	0.0490	0.0492		ug/L		100	50 - 150
Benzo[k]fluoranthene	0.0196	0.0253		ug/L		129	50 - 150
beta-BHC	0.0981	0.0978	J	ug/L		100	50 - 150
Bis(2-ethylhexyl) phthalate	0.589	0.579	J	ug/L		98	50 - 150
Bromacil	0.0981	0.101		ug/L		103	50 - 150
Butachlor	0.0490	0.0629		ug/L		128	50 - 150
Butylbenzylphthalate	0.490	0.591		ug/L		120	50 - 150
Chlorobenzilate	0.0981	0.102		ug/L		104	50 - 150
Chloroneb	0.0981	0.0997		ug/L		102	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0981	0.125		ug/L		128	50 - 150
Chlorpyrifos	0.0490	0.0629		ug/L		128	50 - 150
Chrysene	0.0196	0.0194	J	ug/L		99	50 - 150
delta-BHC	0.0981	0.0948	J	ug/L		97	50 - 150
Di(2-ethylhexyl)adipate	0.589	0.662		ug/L		112	50 - 150
Dibenz(a,h)anthracene	0.0490	0.0489	J	ug/L		100	50 - 150
Diclorvos (DDVP)	0.0490	0.0532		ug/L		109	50 - 150
Diethylphthalate	0.490	0.520		ug/L		106	50 - 150
Dimethylphthalate	0.490	0.480	J	ug/L		98	50 - 150
Di-n-butyl phthalate	0.490	0.524	J	ug/L		107	49 - 243
Di-n-octyl phthalate	0.0981	0.0968	J	ug/L		99	50 - 150
Endosulfan I (Alpha)	0.0981	0.0817	J	ug/L		83	50 - 150
Endosulfan II (Beta)	0.0981	0.102		ug/L		104	50 - 150
Endosulfan sulfate	0.0981	0.105		ug/L		107	50 - 150
Endrin	0.00981	0.0101		ug/L		103	50 - 150
Endrin aldehyde	0.0981	0.110		ug/L		112	50 - 150
EPTC	0.0981	0.0969	J	ug/L		99	50 - 150
Fluoranthene	0.0981	0.104		ug/L		106	50 - 150
Fluorene	0.0490	<0.049		ug/L		96	50 - 150
gamma-Chlordane	0.0245	0.0359	J	ug/L		146	50 - 150
Heptachlor	0.00981	0.0127		ug/L		129	50 - 150
Heptachlor epoxide (isomer B)	0.00981	0.0118		ug/L		120	50 - 150
Hexachlorobenzene	0.0490	0.0454	J	ug/L		93	50 - 150
Hexachlorocyclopentadiene	0.0490	0.0451	J	ug/L		92	50 - 150
Indeno[1,2,3-cd]pyrene	0.0490	0.0531		ug/L		108	50 - 150
Isophorone	0.0981	0.117		ug/L		119	50 - 150
Lindane	0.00981	0.0130		ug/L		133	50 - 150
Malathion	0.0981	0.0998		ug/L		102	50 - 150
Methoxychlor	0.0490	0.0709		ug/L		145	50 - 150
Metolachlor	0.0490	0.0589		ug/L		120	50 - 150
Molinate	0.0981	0.111		ug/L		113	50 - 150
Naphthalene	0.0981	0.110		ug/L		112	50 - 150

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QC Sample Results

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

Job ID: 380-188300-1
SDG: Weekly: Moanalua Wells

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

Lab Sample ID: MRL 380-193113/22-A

Matrix: Water

Analysis Batch: 193259

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 193113

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Parathion	0.0981	0.0854	J	ug/L		87	50 - 150
Pendimethalin (Penoxaline)	0.0981	0.0840	J	ug/L		86	50 - 150
Phenanthrene	0.0392	0.0395		ug/L		101	50 - 150
Propachlor	0.0490	0.0511		ug/L		104	50 - 150
Pyrene	0.0490	0.0660		ug/L		135	50 - 150
Simazine	0.0490	0.0659		ug/L		134	50 - 150
Terbacil	0.0981	0.0915	J	ug/L		93	50 - 150
Terbutylazine	0.0981	0.110		ug/L		113	50 - 150
Thiobencarb	0.0981	0.110		ug/L		113	50 - 150
trans-Nonachlor	0.0245	0.0342	J	ug/L		139	50 - 150
Trifluralin	0.0981	0.0903	J	ug/L		92	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	MRL Limits
2-Nitro-m-xylene	96		70 - 130
Perylene-d12	85		70 - 130
Triphenylphosphate	110		70 - 130

Lab Sample ID: MRL 380-193113/22-A

Matrix: Water

Analysis Batch: 194198

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 193113

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Dieldrin	0.00981	0.00806	J	ug/L		82	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	MRL Limits
2-Nitro-m-xylene	94		70 - 130
Perylene-d12	77		70 - 130
Triphenylphosphate	104		70 - 130

Lab Sample ID: 380-188296-I-1-A MS

Matrix: Water

Analysis Batch: 193259

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 193113

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.098		1.96	2.01		ug/L		102	70 - 130
2,4'-DDD	<0.098		1.96	1.98		ug/L		101	70 - 130
2,4'-DDE	<0.098		1.96	2.12		ug/L		108	70 - 130
2,4'-DDT	<0.098		1.96	1.88		ug/L		96	70 - 130
2,4-Dinitrotoluene	<0.098		1.96	1.86		ug/L		95	70 - 130
2,6-Dinitrotoluene	<0.098		1.96	1.94		ug/L		99	70 - 130
2-Methylnaphthalene	<0.098		1.96	2.00		ug/L		102	70 - 130
4,4'-DDD	<0.098		1.96	1.97		ug/L		100	70 - 130
4,4'-DDE	<0.098		1.96	2.09		ug/L		107	70 - 130
4,4'-DDT	<0.098		1.96	1.94		ug/L		99	70 - 130
Acenaphthene	<0.098		1.96	2.00		ug/L		102	70 - 130
Acenaphthylene	<0.098		1.96	2.11		ug/L		108	70 - 130
Acetochlor	<0.098		1.96	1.99		ug/L		102	70 - 130
Alachlor	<0.049		1.96	2.01		ug/L		103	70 - 130

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QC Sample Results

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

Job ID: 380-188300-1
SDG: Weekly: Moanalua Wells

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

Lab Sample ID: 380-188296-I-1-A MS

Client Sample ID: Matrix Spike

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 193259

Prep Batch: 193113

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
alpha-BHC	<0.098		1.96	2.16		ug/L		110	70 - 130
alpha-Chlordane	<0.049		1.96	2.11		ug/L		106	70 - 130
Anthracene	<0.020	F1	1.96	0.949	F1	ug/L		49	70 - 130
Atrazine	<0.049		1.96	2.07		ug/L		106	70 - 130
Benz(a)anthracene	<0.049		1.96	2.05		ug/L		105	70 - 130
Benzo[a]pyrene	<0.020		1.96	1.74		ug/L		89	70 - 130
Benzo[b]fluoranthene	<0.020		1.96	2.12		ug/L		109	70 - 130
Benzo[g,h,i]perylene	<0.049		1.96	1.91		ug/L		98	70 - 130
Benzo[k]fluoranthene	<0.020		1.96	1.89		ug/L		96	70 - 130
beta-BHC	<0.098		1.96	2.18		ug/L		112	70 - 130
Bis(2-ethylhexyl) phthalate	<0.59		1.96	1.78		ug/L		91	70 - 130
Bromacil	<0.098		1.96	1.85		ug/L		92	70 - 130
Butachlor	<0.049		1.96	2.07		ug/L		106	70 - 130
Butylbenzylphthalate	<0.49		1.96	2.31		ug/L		118	70 - 130
Chlorobenzilate	<0.098		1.96	2.05		ug/L		105	70 - 130
Chloroneb	<0.098		1.96	2.07		ug/L		106	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.098		1.96	2.08		ug/L		106	70 - 130
Chlorpyrifos	<0.049		1.96	2.05		ug/L		105	70 - 130
Chrysene	<0.020		1.96	2.03		ug/L		104	70 - 130
delta-BHC	<0.098		1.96	2.10		ug/L		107	70 - 130
Di(2-ethylhexyl)adipate	<0.59		1.96	1.98		ug/L		101	70 - 130
Dibenz(a,h)anthracene	<0.049		1.96	1.84		ug/L		94	70 - 130
Diclorvos (DDVP)	<0.049		1.96	2.05		ug/L		105	70 - 130
Diethylphthalate	<0.49		1.96	2.20		ug/L		112	70 - 130
Dimethylphthalate	<0.49		1.96	2.13		ug/L		109	70 - 130
Di-n-butyl phthalate	<0.98		3.91	4.20		ug/L		107	70 - 130
Di-n-octyl phthalate	<0.098		1.96	1.65		ug/L		84	70 - 130
Endosulfan I (Alpha)	<0.098		1.96	2.12		ug/L		109	70 - 130
Endosulfan II (Beta)	<0.098		1.96	2.05		ug/L		105	70 - 130
Endosulfan sulfate	<0.098		1.96	1.91		ug/L		98	70 - 130
Endrin	<0.0098		1.96	2.17		ug/L		111	70 - 130
Endrin aldehyde	<0.098		1.96	1.90		ug/L		97	60 - 130
EPTC	<0.098		1.96	2.22		ug/L		113	70 - 130
Fluoranthene	<0.098		1.96	2.04		ug/L		105	70 - 130
Fluorene	<0.049		1.96	2.15		ug/L		110	70 - 130
gamma-Chlordane	<0.049		1.96	2.06		ug/L		104	70 - 130
Heptachlor	<0.0098		1.96	1.95		ug/L		99	70 - 130
Heptachlor epoxide (isomer B)	0.015		1.96	2.35		ug/L		119	70 - 130
Hexachlorobenzene	<0.049		1.96	2.10		ug/L		107	70 - 130
Hexachlorocyclopentadiene	<0.049		1.96	1.96		ug/L		100	70 - 130
Indeno[1,2,3-cd]pyrene	<0.049		1.96	2.07		ug/L		106	70 - 130
Isophorone	<0.098		1.96	1.98		ug/L		101	70 - 130
Lindane	<0.0098		1.96	2.26		ug/L		115	70 - 130
Malathion	<0.098		1.96	2.06		ug/L		105	70 - 130
Methoxychlor	<0.049		1.96	2.11		ug/L		108	70 - 130
Metolachlor	<0.049		1.96	2.04		ug/L		104	70 - 130
Molinate	<0.098		1.96	2.11		ug/L		108	70 - 130
Naphthalene	<0.098		1.96	1.97		ug/L		101	70 - 130
Parathion	<0.098		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: 380-188300-1
SDG: Weekly: Moanalua Wells

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

Lab Sample ID: 380-188296-I-1-A MS

Client Sample ID: Matrix Spike

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 193259

Prep Batch: 193113

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec
	Result	Qualifier	Added	Result	Qualifier				
Pendimethalin (Penoxaline)	<0.098		1.96	2.05		ug/L		105	70 - 130
Phenanthrene	<0.039		1.96	2.02		ug/L		103	70 - 130
Propachlor	<0.049		1.96	2.21		ug/L		113	70 - 130
Pyrene	<0.049		1.96	2.04		ug/L		104	70 - 130
Simazine	<0.049		1.96	2.01		ug/L		103	70 - 130
Terbacil	<0.098		1.96	2.00		ug/L		102	70 - 130
Terbutylazine	<0.098		1.96	2.14		ug/L		110	70 - 130
Thiobencarb	<0.098		1.96	2.05		ug/L		105	70 - 130
trans-Nonachlor	<0.049		1.96	2.05		ug/L		103	70 - 130
Trifluralin	<0.098		1.96	1.86		ug/L		95	70 - 130

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	100		70 - 130
Perylene-d12	97		70 - 130
Triphenylphosphate	116		70 - 130

Lab Sample ID: 380-188296-I-1-A MS

Client Sample ID: Matrix Spike

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 194198

Prep Batch: 193113

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec
	Result	Qualifier	Added	Result	Qualifier				
Dieldrin	0.069		1.96	2.08		ug/L		103	70 - 130

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	99		70 - 130
Perylene-d12	97		70 - 130
Triphenylphosphate	109		70 - 130

Lab Sample ID: 380-188299-I-1-A DU

Client Sample ID: Duplicate

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 193259

Prep Batch: 193113

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
1-Methylnaphthalene	<0.098		<0.098		ug/L		NC	20
2,4'-DDD	<0.098		<0.098		ug/L		NC	20
2,4'-DDE	<0.098		<0.098		ug/L		NC	20
2,4'-DDT	<0.098		<0.098		ug/L		NC	20
2,4-Dinitrotoluene	<0.098		<0.098		ug/L		NC	20
2,6-Dinitrotoluene	<0.098		<0.098		ug/L		NC	20
2-Methylnaphthalene	<0.098		<0.098		ug/L		NC	20
4,4'-DDD	<0.098		<0.098		ug/L		NC	20
4,4'-DDE	<0.098		<0.098		ug/L		NC	20
4,4'-DDT	<0.098		<0.098		ug/L		NC	20
Acenaphthene	<0.098		<0.098		ug/L		NC	20
Acenaphthylene	<0.098		<0.098		ug/L		NC	20
Acetochlor	<0.098		<0.098		ug/L		NC	20
Alachlor	<0.049		<0.049		ug/L		NC	20
alpha-BHC	<0.098		<0.098		ug/L		NC	20

Eurofins Pomona

QC Sample Results

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

Job ID: 380-188300-1
SDG: Weekly: Moanalua Wells

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

Lab Sample ID: 380-188299-I-1-A DU

Matrix: Water

Analysis Batch: 193259

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 193113

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
alpha-Chlordane	<0.049		<0.049		ug/L		NC	20
Anthracene	<0.020		<0.020		ug/L		NC	20
Atrazine	<0.049		<0.049		ug/L		NC	20
Benz(a)anthracene	<0.049		<0.049		ug/L		NC	20
Benzo[a]pyrene	<0.020		<0.020		ug/L		NC	20
Benzo[b]fluoranthene	<0.020		<0.020		ug/L		NC	20
Benzo[g,h,i]perylene	<0.049		<0.049		ug/L		NC	20
Benzo[k]fluoranthene	<0.020		<0.020		ug/L		NC	20
beta-BHC	<0.098		<0.098		ug/L		NC	20
Bis(2-ethylhexyl) phthalate	<0.59		<0.59		ug/L		NC	20
Bromacil	<0.098		<0.098		ug/L		NC	20
Butachlor	<0.049		<0.049		ug/L		NC	20
Butylbenzylphthalate	<0.49		<0.49		ug/L		NC	20
Chlorobenzilate	<0.098		<0.098		ug/L		NC	20
Chloroneb	<0.098		<0.098		ug/L		NC	20
Chlorothalonil (Draconil, Bravo)	<0.098		<0.098		ug/L		NC	20
Chlorpyrifos	<0.049		<0.049		ug/L		NC	20
Chrysene	<0.020		<0.020		ug/L		NC	20
delta-BHC	<0.098		<0.098		ug/L		NC	20
Di(2-ethylhexyl)adipate	<0.59		<0.59		ug/L		NC	20
Dibenz(a,h)anthracene	<0.049		<0.049		ug/L		NC	20
Diclorvos (DDVP)	<0.049		<0.049		ug/L		NC	20
Diethylphthalate	<0.49		<0.49		ug/L		NC	20
Dimethylphthalate	<0.49		<0.49		ug/L		NC	20
Di-n-butyl phthalate	<0.98		<0.98		ug/L		NC	20
Di-n-octyl phthalate	<0.098		<0.098		ug/L		NC	20
Endosulfan I (Alpha)	<0.098		<0.098		ug/L		NC	20
Endosulfan II (Beta)	<0.098		<0.098		ug/L		NC	20
Endosulfan sulfate	<0.098		<0.098		ug/L		NC	20
Endrin	<0.0098		<0.0098		ug/L		NC	20
Endrin aldehyde	<0.098		<0.098		ug/L		NC	20
EPTC	<0.098		<0.098		ug/L		NC	20
Fluoranthene	<0.098		<0.098		ug/L		NC	20
Fluorene	<0.049		<0.049		ug/L		NC	20
gamma-Chlordane	<0.049		<0.049		ug/L		NC	20
Heptachlor	<0.0098		<0.0098		ug/L		NC	20
Heptachlor epoxide (isomer B)	0.014		0.0132		ug/L		5	20
Hexachlorobenzene	<0.049		<0.049		ug/L		NC	20
Hexachlorocyclopentadiene	<0.049		<0.049		ug/L		NC	20
Indeno[1,2,3-cd]pyrene	<0.049		<0.049		ug/L		NC	20
Isophorone	<0.098		<0.098		ug/L		NC	20
Lindane	<0.0098		<0.0098		ug/L		NC	20
Malathion	<0.098		<0.098		ug/L		NC	20
Methoxychlor	<0.049		<0.049		ug/L		NC	20
Metolachlor	<0.049		<0.049		ug/L		NC	20
Molinate	<0.098		<0.098		ug/L		NC	20
Naphthalene	<0.098		<0.098		ug/L		NC	20
Parathion	<0.098		<0.098		ug/L		NC	20
Pendimethalin (Penoxaline)	<0.098		<0.098		ug/L		NC	20

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QC Sample Results

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

Job ID: 380-188300-1
SDG: Weekly: Moanalua Wells

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

Lab Sample ID: 380-188299-I-1-A DU

Client Sample ID: Duplicate

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 193259

Prep Batch: 193113

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Phenanthrene	<0.039		<0.039		ug/L		NC	20
Propachlor	<0.049		<0.049		ug/L		NC	20
Pyrene	<0.049		<0.049		ug/L		NC	20
Simazine	<0.049		<0.049		ug/L		NC	20
Terbacil	<0.098		<0.098		ug/L		NC	20
Terbutylazine	<0.098		<0.098		ug/L		NC	20
Thiobencarb	<0.098		<0.098		ug/L		NC	20
Total Permethrin (mixed isomers)	<0.20		<0.20		ug/L		NC	20
trans-Nonachlor	<0.049		<0.049		ug/L		NC	20
Trifluralin	<0.098		<0.098		ug/L		NC	20

Surrogate	DU	DU	Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	98		70 - 130
Perylene-d12	93		70 - 130
Triphenylphosphate	110		70 - 130

Lab Sample ID: 380-188299-I-1-A DU

Client Sample ID: Duplicate

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 194198

Prep Batch: 193113

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Dieldrin	0.065		0.0748		ug/L		14	20

Surrogate	DU	DU	Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	96		70 - 130
Perylene-d12	92		70 - 130
Triphenylphosphate	106		70 - 130

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

Lab Sample ID: MB 570-671320/1-A

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 676240

Prep Batch: 671320

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	12/17/25 05:54	12/29/25 11:40	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4,6-Tribromophenol (Surr)	71		33 - 139	12/17/25 05:54	12/29/25 11:40	1
2-Fluorobiphenyl (Surr)	81		33 - 126	12/17/25 05:54	12/29/25 11:40	1
2-Fluorophenol (Surr)	58		12 - 120	12/17/25 05:54	12/29/25 11:40	1
Nitrobenzene-d5 (Surr)	83		36 - 120	12/17/25 05:54	12/29/25 11:40	1
Phenol-d6 (Surr)	32		10 - 120	12/17/25 05:54	12/29/25 11:40	1
p-Terphenyl-d14 (Surr)	82		47 - 131	12/17/25 05:54	12/29/25 11:40	1

Eurofins Pomona

QC Sample Results

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

Job ID: 380-188300-1
SDG: Weekly: Moanalua Wells

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

Lab Sample ID: MB 570-671320/1-A
Matrix: Water
Analysis Batch: 674350

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 671320

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1-Methylnaphthalene	<0.20		0.20	ug/L		12/17/25 05:54	12/23/25 12:24	1
2-Methylnaphthalene	<0.20		0.20	ug/L		12/17/25 05:54	12/23/25 12:24	1
Acenaphthene	<0.20		0.20	ug/L		12/17/25 05:54	12/23/25 12:24	1
Acenaphthylene	<0.20		0.20	ug/L		12/17/25 05:54	12/23/25 12:24	1
Anthracene	<0.20		0.20	ug/L		12/17/25 05:54	12/23/25 12:24	1
Benzo[a]anthracene	<0.20		0.20	ug/L		12/17/25 05:54	12/23/25 12:24	1
Benzo[a]pyrene	<0.20		0.20	ug/L		12/17/25 05:54	12/23/25 12:24	1
Benzo[b]fluoranthene	<0.20		0.20	ug/L		12/17/25 05:54	12/23/25 12:24	1
Benzo[g,h,i]perylene	<0.20		0.20	ug/L		12/17/25 05:54	12/23/25 12:24	1
Benzo[k]fluoranthene	<0.20		0.20	ug/L		12/17/25 05:54	12/23/25 12:24	1
Chrysene	<0.20		0.20	ug/L		12/17/25 05:54	12/23/25 12:24	1
Dibenz(a,h)anthracene	<0.20		0.20	ug/L		12/17/25 05:54	12/23/25 12:24	1
Fluoranthene	<0.20		0.20	ug/L		12/17/25 05:54	12/23/25 12:24	1
Fluorene	<0.20		0.20	ug/L		12/17/25 05:54	12/23/25 12:24	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20	ug/L		12/17/25 05:54	12/23/25 12:24	1
Naphthalene	<0.20		0.20	ug/L		12/17/25 05:54	12/23/25 12:24	1
Phenanthrene	<0.20		0.20	ug/L		12/17/25 05:54	12/23/25 12:24	1
Pyrene	<0.20		0.20	ug/L		12/17/25 05:54	12/23/25 12:24	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4,6-Tribromophenol (Surr)	84		28 - 127	12/17/25 05:54	12/23/25 12:24	1
2-Fluorobiphenyl (Surr)	78		31 - 120	12/17/25 05:54	12/23/25 12:24	1
2-Fluorophenol (Surr)	52		17 - 120	12/17/25 05:54	12/23/25 12:24	1
Nitrobenzene-d5 (Surr)	76		27 - 120	12/17/25 05:54	12/23/25 12:24	1
Phenol-d6 (Surr)	33		10 - 120	12/17/25 05:54	12/23/25 12:24	1
p-Terphenyl-d14 (Surr)	73		45 - 120	12/17/25 05:54	12/23/25 12:24	1

Lab Sample ID: LCS 570-671320/2-A
Matrix: Water
Analysis Batch: 674350

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 671320

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
1-Methylnaphthalene	20.0	13.2		ug/L		66	47 - 120
2-Methylnaphthalene	20.0	12.9		ug/L		65	43 - 120
Acenaphthene	20.0	15.5		ug/L		77	60 - 132
Acenaphthylene	20.0	14.4		ug/L		72	54 - 126
Anthracene	20.0	16.0		ug/L		80	43 - 120
Benzo[a]anthracene	20.0	15.5		ug/L		78	42 - 133
Benzo[a]pyrene	20.0	16.7		ug/L		83	32 - 148
Benzo[b]fluoranthene	20.0	16.1		ug/L		80	42 - 140
Benzo[g,h,i]perylene	20.0	15.5		ug/L		78	1 - 195
Benzo[k]fluoranthene	20.0	15.9		ug/L		79	25 - 146
Chrysene	20.0	15.7		ug/L		78	44 - 140
Dibenz(a,h)anthracene	20.0	16.3		ug/L		82	1 - 200
Fluoranthene	20.0	16.3		ug/L		81	43 - 121
Fluorene	20.0	15.4		ug/L		77	70 - 120
Indeno[1,2,3-cd]pyrene	20.0	15.5		ug/L		77	1 - 151
Naphthalene	20.0	12.6		ug/L		63	36 - 120

Eurofins Pomona

QC Sample Results

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

Job ID: 380-188300-1
SDG: Weekly: Moanalua Wells

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

Lab Sample ID: LCS 570-671320/2-A

Matrix: Water

Analysis Batch: 674350

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 671320

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Phenanthrene	20.0	15.7		ug/L		79	65 - 120
Pyrene	20.0	16.2		ug/L		81	70 - 120

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	75		28 - 127
2-Fluorobiphenyl (Surr)	73		31 - 120
2-Fluorophenol (Surr)	58		17 - 120
Nitrobenzene-d5 (Surr)	63		27 - 120
Phenol-d6 (Surr)	38		10 - 120
p-Terphenyl-d14 (Surr)	77		45 - 120

Lab Sample ID: LCSD 570-671320/3-A

Matrix: Water

Analysis Batch: 674350

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 671320

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
		Result	Qualifier						
1-Methylnaphthalene	20.0	14.8		ug/L		74	47 - 120	11	20
2-Methylnaphthalene	20.0	14.6		ug/L		73	43 - 120	12	20
Acenaphthene	20.0	17.8		ug/L		89	60 - 132	14	29
Acenaphthylene	20.0	17.0		ug/L		85	54 - 126	17	45
Anthracene	20.0	18.3		ug/L		91	43 - 120	14	40
Benzo[a]anthracene	20.0	17.3		ug/L		87	42 - 133	11	32
Benzo[a]pyrene	20.0	18.9		ug/L		94	32 - 148	12	43
Benzo[b]fluoranthene	20.0	18.4		ug/L		92	42 - 140	14	43
Benzo[g,h,i]perylene	20.0	17.4		ug/L		87	1 - 195	11	61
Benzo[k]fluoranthene	20.0	18.4		ug/L		92	25 - 146	14	38
Chrysene	20.0	17.5		ug/L		88	44 - 140	11	53
Dibenz(a,h)anthracene	20.0	17.7		ug/L		89	1 - 200	8	75
Fluoranthene	20.0	18.7		ug/L		93	43 - 121	14	40
Fluorene	20.0	17.5		ug/L		87	70 - 120	12	23
Indeno[1,2,3-cd]pyrene	20.0	17.6		ug/L		88	1 - 151	13	60
Naphthalene	20.0	14.2		ug/L		71	36 - 120	12	39
Phenanthrene	20.0	18.0		ug/L		90	65 - 120	14	24
Pyrene	20.0	18.1		ug/L		91	70 - 120	11	30

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	84		28 - 127
2-Fluorobiphenyl (Surr)	85		31 - 120
2-Fluorophenol (Surr)	63		17 - 120
Nitrobenzene-d5 (Surr)	71		27 - 120
Phenol-d6 (Surr)	41		10 - 120
p-Terphenyl-d14 (Surr)	83		45 - 120

QC Sample Results

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

Job ID: 380-188300-1
SDG: Weekly: Moanalua Wells

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

Lab Sample ID: MB 570-675780/12
Matrix: Water
Analysis Batch: 675780

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			12/27/25 15:53	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		38 - 134				12/27/25 15:53	1

Lab Sample ID: LCS 570-675780/1010
Matrix: Water
Analysis Batch: 675780

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	389		ug/L		97	78 - 120
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	101		38 - 134				

Lab Sample ID: LCSD 570-675780/11
Matrix: Water
Analysis Batch: 675780

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Gasoline Range Organics (C4-C13)	400	392		ug/L		98	78 - 120	1	10
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	98		38 - 134						

Lab Sample ID: MRL 570-675780/1005
Matrix: Water
Analysis Batch: 675780

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	11.6		ug/L		116	50 - 150
Surrogate	MRL %Recovery	MRL Qualifier	Limits				
4-Bromofluorobenzene (Surr)	93		38 - 134				

Lab Sample ID: 380-188308-C-1 MS
Matrix: Water
Analysis Batch: 675780

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	413		ug/L		103	68 - 122
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	104		38 - 134						

QC Sample Results

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

Job ID: 380-188300-1
SDG: Weekly: Moanalua Wells

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

Lab Sample ID: 380-188308-C-1 MSD
Matrix: Water
Analysis Batch: 675780

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	401		ug/L		100	68 - 122	3	18
Surrogate	%Recovery	MSD Qualifier	MSD Limits								
4-Bromofluorobenzene (Surr)	95		38 - 134								

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

Lab Sample ID: MB 570-671434/1-A
Matrix: Water
Analysis Batch: 671882

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 671434

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<25		25	ug/L		12/17/25 09:06	12/18/25 07:05	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		12/17/25 09:06	12/18/25 07:05	1
C8-C18	<25		25	ug/L		12/17/25 09:06	12/18/25 07:05	1
Surrogate	%Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac		
n-Octacosane (Surr)	109		60 - 130	12/17/25 09:06	12/18/25 07:05	1		

Lab Sample ID: LCS 570-671434/2-A
Matrix: Water
Analysis Batch: 671882

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 671434

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28	1600	1370		ug/L		86	56 - 127		
Surrogate	%Recovery	LCS Qualifier	LCS Limits						
n-Octacosane (Surr)	105		60 - 130						

Lab Sample ID: LCSD 570-671434/3-A
Matrix: Water
Analysis Batch: 671882

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 671434

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28	1600	1250		ug/L		78	56 - 127	10	23
Surrogate	%Recovery	LCSD Qualifier	LCSD Limits						
n-Octacosane (Surr)	99		60 - 130						

Lab Sample ID: MRL 570-671434/4-A
Matrix: Water
Analysis Batch: 679225

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 671434

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28	0.0200	0.0218	J	mg/L		109	50 - 150		

QC Sample Results

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

Job ID: 380-188300-1
 SDG: Weekly: Moanalua Wells

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

Lab Sample ID: MRL 570-671434/4-A
Matrix: Water
Analysis Batch: 679225

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 671434

<u>Surrogate</u>	<u>MRL</u> <u>%Recovery</u>	<u>MRL</u> <u>Qualifier</u>	<u>Limits</u>
<i>n-Octacosane (Surr)</i>	111		60 - 130

Lab Sample ID: 380-188308-B-1-A MS
Matrix: Water
Analysis Batch: 679225

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 671434

<u>Analyte</u>	<u>Sample</u> <u>Result</u>	<u>Sample</u> <u>Qualifier</u>	<u>Spike</u> <u>Added</u>	<u>MS</u> <u>Result</u>	<u>MS</u> <u>Qualifier</u>	<u>Unit</u>	<u>D</u>	<u>%Rec</u>	<u>%Rec</u> <u>Limits</u>
C10-C28	<26		2080	1490		ug/L		72	70 - 130

<u>Surrogate</u>	<u>MS</u> <u>%Recovery</u>	<u>MS</u> <u>Qualifier</u>	<u>Limits</u>
<i>n-Octacosane (Surr)</i>	129		60 - 130

Lab Sample ID: 380-188308-B-1-B MSD
Matrix: Water
Analysis Batch: 679225

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 671434

<u>Analyte</u>	<u>Sample</u> <u>Result</u>	<u>Sample</u> <u>Qualifier</u>	<u>Spike</u> <u>Added</u>	<u>MSD</u> <u>Result</u>	<u>MSD</u> <u>Qualifier</u>	<u>Unit</u>	<u>D</u>	<u>%Rec</u>	<u>%Rec</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>Limit</u>
C10-C28	<26		2060	1620		ug/L		79	70 - 130	8	20

<u>Surrogate</u>	<u>MSD</u> <u>%Recovery</u>	<u>MSD</u> <u>Qualifier</u>	<u>Limits</u>
<i>n-Octacosane (Surr)</i>	121		60 - 130

QC Association Summary

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

Job ID: 380-188300-1
 SDG: Weekly: Moanalua Wells

GC/MS Semi VOA

Prep Batch: 193113

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-188300-1	MOANALUA WELLS	Total/NA	Water	525.2	
MB 380-193113/21-A	Method Blank	Total/NA	Water	525.2	
LCS 380-193113/23-A	Lab Control Sample	Total/NA	Water	525.2	
MRL 380-193113/22-A	Lab Control Sample	Total/NA	Water	525.2	
380-188296-I-1-A MS	Matrix Spike	Total/NA	Water	525.2	
380-188299-I-1-A DU	Duplicate	Total/NA	Water	525.2	

Analysis Batch: 193259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-188300-1	MOANALUA WELLS	Total/NA	Water	525.2	193113
MB 380-193113/21-A	Method Blank	Total/NA	Water	525.2	193113
LCS 380-193113/23-A	Lab Control Sample	Total/NA	Water	525.2	193113
MRL 380-193113/22-A	Lab Control Sample	Total/NA	Water	525.2	193113
380-188296-I-1-A MS	Matrix Spike	Total/NA	Water	525.2	193113
380-188299-I-1-A DU	Duplicate	Total/NA	Water	525.2	193113

Analysis Batch: 194198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-188300-1	MOANALUA WELLS	Total/NA	Water	525.2	193113
MRL 380-193113/22-A	Lab Control Sample	Total/NA	Water	525.2	193113
380-188296-I-1-A MS	Matrix Spike	Total/NA	Water	525.2	193113
380-188299-I-1-A DU	Duplicate	Total/NA	Water	525.2	193113

Prep Batch: 671320

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-188300-1	MOANALUA WELLS	Total/NA	Water	625.1	
MB 570-671320/1-A	Method Blank	Total/NA	Water	625.1	
LCS 570-671320/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 570-671320/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	

Analysis Batch: 674350

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-671320/1-A	Method Blank	Total/NA	Water	625.1 SIM	671320
LCS 570-671320/2-A	Lab Control Sample	Total/NA	Water	625.1 SIM	671320
LCSD 570-671320/3-A	Lab Control Sample Dup	Total/NA	Water	625.1 SIM	671320

Analysis Batch: 675313

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-188300-1	MOANALUA WELLS	Total/NA	Water	625.1 SIM	671320

Analysis Batch: 676240

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-188300-1	MOANALUA WELLS	Total/NA	Water	625.1	671320
MB 570-671320/1-A	Method Blank	Total/NA	Water	625.1	671320

GC VOA

Analysis Batch: 675780

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-188300-1	MOANALUA WELLS	Total/NA	Water	8015B GRO LL	
380-188300-2	TB: MOANALUA WELLS	Total/NA	Water	8015B GRO LL	

QC Association Summary

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

Job ID: 380-188300-1
 SDG: Weekly: Moanalua Wells

GC VOA (Continued)

Analysis Batch: 675780 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-675780/12	Method Blank	Total/NA	Water	8015B GRO LL	
LCS 570-675780/1010	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-675780/11	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	
MRL 570-675780/1005	Lab Control Sample	Total/NA	Water	8015B GRO LL	
380-188308-C-1 MS	Matrix Spike	Total/NA	Water	8015B GRO LL	
380-188308-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8015B GRO LL	

GC Semi VOA

Prep Batch: 671434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-188300-1 - RA	MOANALUA WELLS	Total/NA	Water	3510C	
MB 570-671434/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-671434/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-671434/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-671434/4-A	Lab Control Sample	Total/NA	Water	3510C	
380-188308-B-1-A MS	Matrix Spike	Total/NA	Water	3510C	
380-188308-B-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

Analysis Batch: 671882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-671434/1-A	Method Blank	Total/NA	Water	8015B	671434
LCS 570-671434/2-A	Lab Control Sample	Total/NA	Water	8015B	671434
LCSD 570-671434/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	671434

Analysis Batch: 679225

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-188300-1 - RA	MOANALUA WELLS	Total/NA	Water	8015B	671434
MRL 570-671434/4-A	Lab Control Sample	Total/NA	Water	8015B	671434
380-188308-B-1-A MS	Matrix Spike	Total/NA	Water	8015B	671434
380-188308-B-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	8015B	671434

Lab Chronicle

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

Job ID: 380-188300-1
SDG: Weekly: Moanalua Wells

Client Sample ID: MOANALUA WELLS

Lab Sample ID: 380-188300-1

Date Collected: 12/15/25 10:07

Matrix: Water

Date Received: 12/17/25 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			193113	IQ42	EA POM	12/17/25 15:48
Total/NA	Analysis	525.2		1	193259	UPAC	EA POM	12/18/25 14:47
Total/NA	Prep	525.2			193113	IQ42	EA POM	12/17/25 15:48
Total/NA	Analysis	525.2		1	194198	UPAC	EA POM	12/23/25 12:45
Total/NA	Prep	625.1			671320	OAJ3	EET CAL 4	12/17/25 22:00
Total/NA	Analysis	625.1		1	676240	PQS1	EET CAL 4	12/29/25 17:09
Total/NA	Prep	625.1			671320	OAJ3	EET CAL 4	12/17/25 22:00
Total/NA	Analysis	625.1 SIM		1	675313	PQS1	EET CAL 4	12/26/25 13:56
Total/NA	Analysis	8015B GRO LL		1	675780	AJG4	EET CAL 4	12/27/25 20:13
Total/NA	Prep	3510C	RA		671434	TVD6	EET CAL 4	12/18/25 08:24
Total/NA	Analysis	8015B	RA	1	679225	H6FE	EET CAL 4	01/07/26 00:01

Client Sample ID: TB: MOANALUA WELLS

Lab Sample ID: 380-188300-2

Date Collected: 12/15/25 10:07

Matrix: Water

Date Received: 12/17/25 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	675780	AJG4	EET CAL 4	12/27/25 17:40

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: 380-188300-1
 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: 380-188300-1
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: 380-188300-1
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: 380-188300-1
SDG: Weekly: Moanalua Wells

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
380-188300-1	MOANALUA WELLS	Water	12/15/25 10:07	12/17/25 10:30	Hawaii
380-188300-2	TB: MOANALUA WELLS	Water	12/15/25 10:07	12/17/25 10:30	Hawaii

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Chain of Custody Record

Client Information		Lab PM: Lopez, Mana		Carrier Tracking No(s):		COC No:											
Client Contact: Kirk Iwamoto		E-Mail: Maria.Lopez@et.eurofins.com		State of Origin:		Page: Page 1 of 1											
Company: City & County of Honolulu		PWSID:		Job #:		Job #:											
Address: 630 South Beretania Street Chemistry Lab		Due Date Requested:		Analysis Requested		Preservation Codes:											
City: Honolulu		TAT Requested (days):		633 - All Analytes		R - NaThioSO4											
State Zip: HI, 96843		Compliance Project: Δ Yes Δ No		637.1_DW_PREC - 637.1 Full Lab		RA - NaThioHCl											
Phone: 808-748-5840 (Tel)		PO #: C20525101 exp 05312023		625.2_PREC - (MOD) 625 plus Plus TICs		Q - Na2SO3											
Email: kiwamoto@hbws.org		WO #:		80168_DRO_LL_CS - HNL Ranges: C10-C24/C24-C36/C8-C18		QA - Na2SOx											
Project Name: RED-HILL/HBWS Sites Event Desc: RUSH Weekly Red Hill		Project #: 38001111		80168_GRO_LL - (MOD) GRO		Y - Trizma											
Site: Hawaii		SSOW#:		626.1_626.1 SIM		I - NH4 Acet											
Sample Identification		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (Hexamer, Spiked, On-site)		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		RA Q OA Y I		Special Instructions/Note:	
Moanalua Wells		15-Dec-2025		1007		G		Water		X		X		X		pump 1	
Moanalua Wells (Matrix Spike)								Water									
Moanalua Wells (Matrix Spike Duplicate)								Water									
TB: Moanalua Wells		15-Dec-2025		1007				Water									
Possible Hazard Identification		Non-Hazard <input type="checkbox"/>		Flammable <input type="checkbox"/>		Skin Irritant <input type="checkbox"/>		Poison B <input type="checkbox"/>		Unknown <input type="checkbox"/>		Radiological <input type="checkbox"/>		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Return To Client <input type="checkbox"/> Archive For <input type="checkbox"/> Months	
Deliverable Requested: I, II, III, IV, Other (specify)		Empty Kit Relinquished by		Date: 16 Dec 2025		Time: 1400		Company: HBWS		Method of Shipment: Fedex 2571 5109 9910		Date/Time: 12-17-23 10:30		Company: BEAP		Date/Time:	
Relinquished by		Relinquished by		Date/Time:		Date/Time:		Company:		Received by: Janna Drake G		Date/Time:		Company:		Date/Time:	
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:		Date/Time:		Date/Time:		Company:		Cooler Temperature(s) °C and Other Remarks: 401A) 7-0.2-15 Gel frozen		Date/Time:		Company:		Date/Time:	



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: 16DEC25
ACTWGT 35.00 LB
CAD 258050552/INET4535
BILL RECIPIENT

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

58HJ6J077E/59F2

POMONA CA 91768 REF: (626) 386-1100

DEPT



6 of 6 WED - 17 DEC 12:00P
PRIORITY OVERNIGHT

MPS# 8871 5109 9529

0263 Mstr# 8871 5109 9470

0201

91768

WM ONTA

CA-US ONT



401A) 27 0.2 = 2.5 Gel frozen 10-17-25
10:30
Donika Drake G

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

SHIP DATE: 16DEC25
ACTWGT: 57.00 LB
CAD: 258050552/INET4535

BILL RECIPIENT

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

58HJ6/077E/59F2

POMONA CA 91768

REF: (626) 386-1100

INV# PO# DEPT



WED - 17 DEC 12:00P
PRIORITY OVERNIGHT

2 of 6

MPS# 8871 5109 9481

0263

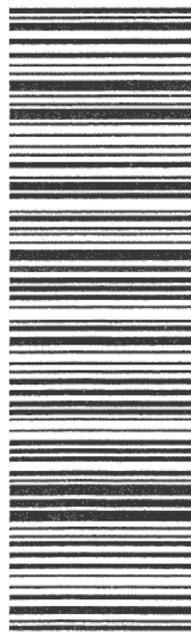
Mstr# 8871 5109 9470

0201

WM ONTA

91768

CA-US ONT



40A714-02-12 Gel frozen 12-17-25
10:30
Sandra Drake G

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Eurofins Eaton Analytical Pomona

941 Corporate Center Drive
Pomona, CA 91768-2642
Phone: 626-366-1100

Chain of Custody Record



eurofins

En Loc: 380
188300

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Lopez, Maria	Carrier Tracking No(s): N/A	GOC No: 380-287653.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Maria.Lopez@et.eurofinsus.com	State of Origin: Hawaii	Page: Page 1 of 1

Company: Eurofins Environment Testing Southwest L	Accreditations Required (See note): State - Hawaii	Job #: 380-188300-1
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Address: 2841 Dow Avenue, Suite 100, City: Tustin State, Zip: CA, 92780 Phone: 714-895-5494(Tel) Email: N/A Project Name: RED-HILL Site: Honolulu BWS Sites	Due Date Requested: 1/5/2026 TAT Requested (days): N/A PO #: N/A WO #: N/A Project #: 38001111 SSOW#: N/A	Analysis Requested	Preservation Codes: - Other: N/A
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Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=soils/oil, BT=Trace, ANAL)	Field Filtered Sample (Yes or No)										Total Number of Containers	Special Instructions/Note:		
					Perform MS/MSD (Yes or No)	B015B_DRO_LL_CS0510C_LLHNL Ranges: C10-C24/C24-C36/C8-C18	B015B_GRO_LLJ5030C(MOD) GRO	625.1_S/M/625_Prep(MOD) Extended PAH List	625.1/625_Prep(MOD) Tentatively Identified Compounds (Hold)									
MOANALUA WELLS (380-188300-1)	12/15/25	10:07 Hawaiian	G	Water		X	X	X	X								7	MRLs are needed. Confirm any hits >RL.
TB: MOANALUA WELLS (380-188300-2)	12/15/25	10:07 Hawaiian	G	Water			X										2	MRLs are needed.



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

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

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: <i>Wang Clark</i>	Date/Time: 12/17/25 1530	Company: <i>EEAP</i>	Received by: <i>LT</i>
Relinquished by: <i>Wang Clark</i>	Date/Time: 12-17-25 1630	Company: <i>WLP</i>	Received by: <i>WLP</i>
Relinquished by:	Date/Time:	Company:	Received by:

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.2/1.3 IR-4
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Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-188300-1
SDG Number: Weekly: Moanalua Wells

Login Number: 188300

List Number: 1

Creator: Edrosa, Rey

List Source: Eurofins Pomona

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



Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-188300-1
SDG Number: Weekly: Moanalua Wells

Login Number: 188300

List Number: 2

Creator: Khana, Piyush

List Source: Eurofins Calscience

List Creation: 12/17/25 06:32 PM

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.3
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	