

ANALYTICAL REPORT

PREPARED FOR

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JOB DESCRIPTION

RED-HILL
Weekly: Ka'amilo Wells Pump1/Pump 2
RUSH Weekly Red Hill

JOB NUMBER

380-164489-1

Eurofins Eaton Analytical Pomona

Job Notes

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

The test results in this report relate only to the samples as received by the laboratory and meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Eaton Analytical, 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: 380-164489-1
SDG: Weekly: Ka'amilo Wells Pump1/Pump 2

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.

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.

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: 380-164489-1

Job ID: 380-164489-1

Eurofins Eaton Analytical Pomona

Job Narrative 380-164489-1

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 8/6/2025 9:34 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.9°C and 3.5°C.

GC/MS Semi VOA

Method 625.1_SIM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for the following sample associated with preparation batch 570-609628 and analytical batch 570-610847 were outside control limits: (380-164502-A-1-C MSD). The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method 525.2_PREC: The matrix spike (MS) recovery for preparation batch 380-167255 and analytical batch 380-167457 was below control limits for Anthracene. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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: 380-164489-1
SDG: Weekly: Ka'amilo Wells Pump1/Pump 2

Client Sample ID: Ka'amilo Wells Pump 1

Lab Sample ID: 380-164489-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Dieldrin	0.071		0.0097	ug/L	1		525.2	Total/NA
Heptachlor epoxide (isomer B)	0.012		0.0097	ug/L	1		525.2	Total/NA

Client Sample ID: TB: Ka'amilo Wells Pump 1

Lab Sample ID: 380-164489-2

No Detections.

Client Sample ID: Ka'amilo Wells Pump 2

Lab Sample ID: 380-164489-3

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Dieldrin	0.066		0.0097	ug/L	1		525.2	Total/NA
Heptachlor epoxide (isomer B)	0.012		0.0097	ug/L	1		525.2	Total/NA

Client Sample ID: TB: Ka'amilo Wells Pump 2

Lab Sample ID: 380-164489-4

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: 380-164489-1
SDG: Weekly: Ka'amilo Wells Pump1/Pump 2

Client Sample ID: Ka'amilo Wells Pump 1

Lab Sample ID: 380-164489-1

Date Collected: 08/04/25 11:58

Matrix: Water

Date Received: 08/06/25 09:34

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		08/07/25 09:12	08/08/25 10:43	1
2,4'-DDD	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:43	1
2,4'-DDE	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:43	1
2,4'-DDT	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:43	1
2,4-Dinitrotoluene	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:43	1
2,6-Dinitrotoluene	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:43	1
2-Methylnaphthalene	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:43	1
4,4'-DDD	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:43	1
4,4'-DDE	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:43	1
4,4'-DDT	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:43	1
Acenaphthene	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:43	1
Acenaphthylene	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:43	1
Acetochlor	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:43	1
Alachlor	<0.049		0.049	ug/L		08/07/25 09:12	08/08/25 10:43	1
alpha-BHC	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:43	1
alpha-Chlordane	<0.049		0.049	ug/L		08/07/25 09:12	08/08/25 10:43	1
Anthracene	<0.019		0.019	ug/L		08/07/25 09:12	08/08/25 10:43	1
Atrazine	<0.049		0.049	ug/L		08/07/25 09:12	08/08/25 10:43	1
Benz(a)anthracene	<0.049		0.049	ug/L		08/07/25 09:12	08/08/25 10:43	1
Benzo[a]pyrene	<0.019		0.019	ug/L		08/07/25 09:12	08/08/25 10:43	1
Benzo[b]fluoranthene	<0.019		0.019	ug/L		08/07/25 09:12	08/08/25 10:43	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		08/07/25 09:12	08/08/25 10:43	1
Benzo[k]fluoranthene	<0.019		0.019	ug/L		08/07/25 09:12	08/08/25 10:43	1
beta-BHC	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:43	1
Bis(2-ethylhexyl) phthalate	<0.58		0.58	ug/L		08/07/25 09:12	08/08/25 10:43	1
Bromacil	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:43	1
Butachlor	<0.049		0.049	ug/L		08/07/25 09:12	08/08/25 10:43	1
Butylbenzylphthalate	<0.49		0.49	ug/L		08/07/25 09:12	08/08/25 10:43	1
Chlorobenzilate	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:43	1
Chloroneb	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:43	1
Chlorothalonil (Draconil, Bravo)	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:43	1
Chlorpyrifos	<0.049		0.049	ug/L		08/07/25 09:12	08/08/25 10:43	1
Chrysene	<0.019		0.019	ug/L		08/07/25 09:12	08/08/25 10:43	1
delta-BHC	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:43	1
Di(2-ethylhexyl)adipate	<0.58		0.58	ug/L		08/07/25 09:12	08/08/25 10:43	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		08/07/25 09:12	08/08/25 10:43	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		08/07/25 09:12	08/08/25 10:43	1
Dieldrin	0.071		0.0097	ug/L		08/07/25 09:12	08/08/25 10:43	1
Diethylphthalate	<0.49		0.49	ug/L		08/07/25 09:12	08/08/25 10:43	1
Dimethylphthalate	<0.49		0.49	ug/L		08/07/25 09:12	08/08/25 10:43	1
Di-n-butyl phthalate	<0.97		0.97	ug/L		08/07/25 09:12	08/08/25 10:43	1
Di-n-octyl phthalate	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:43	1
Endosulfan I (Alpha)	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:43	1
Endosulfan II (Beta)	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:43	1
Endosulfan sulfate	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:43	1
Endrin	<0.0097		0.0097	ug/L		08/07/25 09:12	08/08/25 10:43	1
Endrin aldehyde	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:43	1
EPTC	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:43	1
Fluoranthene	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:43	1

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Client Sample Results

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

Job ID: 380-164489-1
SDG: Weekly: Ka'amilo Wells Pump1/Pump 2

Client Sample ID: Ka'amilo Wells Pump 1

Lab Sample ID: 380-164489-1

Date Collected: 08/04/25 11:58

Matrix: Water

Date Received: 08/06/25 09:34

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		08/07/25 09:12	08/08/25 10:43	1
gamma-Chlordane	<0.049		0.049	ug/L		08/07/25 09:12	08/08/25 10:43	1
Heptachlor	<0.0097		0.0097	ug/L		08/07/25 09:12	08/08/25 10:43	1
Heptachlor epoxide (isomer B)	0.012		0.0097	ug/L		08/07/25 09:12	08/08/25 10:43	1
Hexachlorobenzene	<0.049		0.049	ug/L		08/07/25 09:12	08/08/25 10:43	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		08/07/25 09:12	08/08/25 10:43	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		08/07/25 09:12	08/08/25 10:43	1
Isophorone	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:43	1
Lindane	<0.0097		0.0097	ug/L		08/07/25 09:12	08/08/25 10:43	1
Malathion	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:43	1
Methoxychlor	<0.049		0.049	ug/L		08/07/25 09:12	08/08/25 10:43	1
Metolachlor	<0.049		0.049	ug/L		08/07/25 09:12	08/08/25 10:43	1
Molinate	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:43	1
Naphthalene	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:43	1
Parathion	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:43	1
Pendimethalin (Penoxaline)	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:43	1
Phenanthrene	<0.039		0.039	ug/L		08/07/25 09:12	08/08/25 10:43	1
Propachlor	<0.049		0.049	ug/L		08/07/25 09:12	08/08/25 10:43	1
Pyrene	<0.049		0.049	ug/L		08/07/25 09:12	08/08/25 10:43	1
Simazine	<0.049		0.049	ug/L		08/07/25 09:12	08/08/25 10:43	1
Terbacil	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:43	1
Terbutylazine	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:43	1
Thiobencarb	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:43	1
Total Permethrin (mixed isomers)	<0.19		0.19	ug/L		08/07/25 09:12	08/08/25 10:43	1
trans-Nonachlor	<0.049		0.049	ug/L		08/07/25 09:12	08/08/25 10:43	1
Trifluralin	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:43	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	08/07/25 09:12	08/08/25 10:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	98		70 - 130	08/07/25 09:12	08/08/25 10:43	1
Perylene-d12	81		70 - 130	08/07/25 09:12	08/08/25 10:43	1
Triphenylphosphate	101		70 - 130	08/07/25 09:12	08/08/25 10:43	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		08/11/25 05:56	08/13/25 12:37	1
2-Methylnaphthalene	<0.19		0.19	ug/L		08/11/25 05:56	08/13/25 12:37	1
Acenaphthene	<0.19		0.19	ug/L		08/11/25 05:56	08/13/25 12:37	1
Acenaphthylene	<0.19		0.19	ug/L		08/11/25 05:56	08/13/25 12:37	1
Anthracene	<0.19		0.19	ug/L		08/11/25 05:56	08/13/25 12:37	1
Benzo[a]anthracene	<0.19		0.19	ug/L		08/11/25 05:56	08/13/25 12:37	1
Benzo[a]pyrene	<0.19		0.19	ug/L		08/11/25 05:56	08/13/25 12:37	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		08/11/25 05:56	08/13/25 12:37	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		08/11/25 05:56	08/13/25 12:37	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		08/11/25 05:56	08/13/25 12:37	1
Chrysene	<0.19		0.19	ug/L		08/11/25 05:56	08/13/25 12:37	1
Dibenz(a,h)anthracene	<0.19		0.19	ug/L		08/11/25 05:56	08/13/25 12:37	1
Fluoranthene	<0.19		0.19	ug/L		08/11/25 05:56	08/13/25 12:37	1

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Client Sample Results

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

Job ID: 380-164489-1
SDG: Weekly: Ka'amilo Wells Pump1/Pump 2

Client Sample ID: Ka'amilo Wells Pump 1

Lab Sample ID: 380-164489-1

Date Collected: 08/04/25 11:58

Matrix: Water

Date Received: 08/06/25 09:34

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		08/11/25 05:56	08/13/25 12:37	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		08/11/25 05:56	08/13/25 12:37	1
Naphthalene	<0.19		0.19	ug/L		08/11/25 05:56	08/13/25 12:37	1
Phenanthrene	<0.19		0.19	ug/L		08/11/25 05:56	08/13/25 12:37	1
Pyrene	<0.19		0.19	ug/L		08/11/25 05:56	08/13/25 12:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	88		28 - 127	08/11/25 05:56	08/13/25 12:37	1
2-Fluorobiphenyl (Surr)	90		31 - 120	08/11/25 05:56	08/13/25 12:37	1
2-Fluorophenol (Surr)	41		17 - 120	08/11/25 05:56	08/13/25 12:37	1
Nitrobenzene-d5 (Surr)	89		27 - 120	08/11/25 05:56	08/13/25 12:37	1
Phenol-d6 (Surr)	27		10 - 120	08/11/25 05:56	08/13/25 12:37	1
p-Terphenyl-d14 (Surr)	94		45 - 120	08/11/25 05:56	08/13/25 12:37	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	08/11/25 05:56	08/14/25 12:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	79		33 - 139	08/11/25 05:56	08/14/25 12:07	1
2-Fluorobiphenyl (Surr)	92		33 - 126	08/11/25 05:56	08/14/25 12:07	1
2-Fluorophenol (Surr)	51		12 - 120	08/11/25 05:56	08/14/25 12:07	1
Nitrobenzene-d5 (Surr)	94		36 - 120	08/11/25 05:56	08/14/25 12:07	1
Phenol-d6 (Surr)	26		10 - 120	08/11/25 05:56	08/14/25 12:07	1
p-Terphenyl-d14 (Surr)	92		47 - 131	08/11/25 05:56	08/14/25 12:07	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			08/16/25 15:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		38 - 134		08/16/25 15:26	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		08/11/25 11:43	08/16/25 08:08	1
Motor Oil Range Organics [C24-C36]	<26		26	ug/L		08/11/25 11:43	08/16/25 08:08	1
C8-C18	<26		26	ug/L		08/11/25 11:43	08/16/25 08:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	114		60 - 130	08/11/25 11:43	08/16/25 08:08	1

Client Sample ID: TB: Ka'amilo Wells Pump 1

Lab Sample ID: 380-164489-2

Date Collected: 08/04/25 11:58

Matrix: Water

Date Received: 08/06/25 09:34

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			08/16/25 20:19	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-164489-1
SDG: Weekly: Ka'amilo Wells Pump1/Pump 2

Client Sample ID: TB: Ka'amilo Wells Pump 1

Lab Sample ID: 380-164489-2

Date Collected: 08/04/25 11:58

Matrix: Water

Date Received: 08/06/25 09:34

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		38 - 134		08/16/25 20:19	1

Client Sample ID: Ka'amilo Wells Pump 2

Lab Sample ID: 380-164489-3

Date Collected: 08/04/25 12:36

Matrix: Water

Date Received: 08/06/25 09:34

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		08/07/25 09:12	08/08/25 10:22	1
2,4'-DDD	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:22	1
2,4'-DDE	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:22	1
2,4'-DDT	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:22	1
2,4-Dinitrotoluene	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:22	1
2,6-Dinitrotoluene	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:22	1
2-Methylnaphthalene	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:22	1
4,4'-DDD	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:22	1
4,4'-DDE	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:22	1
4,4'-DDT	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:22	1
Acenaphthene	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:22	1
Acenaphthylene	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:22	1
Acetochlor	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:22	1
Alachlor	<0.048		0.048	ug/L		08/07/25 09:12	08/08/25 10:22	1
alpha-BHC	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:22	1
alpha-Chlordane	<0.048		0.048	ug/L		08/07/25 09:12	08/08/25 10:22	1
Anthracene	<0.019	F1	0.019	ug/L		08/07/25 09:12	08/08/25 10:22	1
Atrazine	<0.048		0.048	ug/L		08/07/25 09:12	08/08/25 10:22	1
Benz(a)anthracene	<0.048		0.048	ug/L		08/07/25 09:12	08/08/25 10:22	1
Benzo[a]pyrene	<0.019		0.019	ug/L		08/07/25 09:12	08/08/25 10:22	1
Benzo[b]fluoranthene	<0.019		0.019	ug/L		08/07/25 09:12	08/08/25 10:22	1
Benzo[g,h,i]perylene	<0.048		0.048	ug/L		08/07/25 09:12	08/08/25 10:22	1
Benzo[k]fluoranthene	<0.019		0.019	ug/L		08/07/25 09:12	08/08/25 10:22	1
beta-BHC	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:22	1
Bis(2-ethylhexyl) phthalate	<0.58		0.58	ug/L		08/07/25 09:12	08/08/25 10:22	1
Bromacil	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:22	1
Butachlor	<0.048		0.048	ug/L		08/07/25 09:12	08/08/25 10:22	1
Butylbenzylphthalate	<0.48		0.48	ug/L		08/07/25 09:12	08/08/25 10:22	1
Chlorobenzilate	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:22	1
Chloroneb	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:22	1
Chlorothalonil (Draconil, Bravo)	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:22	1
Chlorpyrifos	<0.048		0.048	ug/L		08/07/25 09:12	08/08/25 10:22	1
Chrysene	<0.019		0.019	ug/L		08/07/25 09:12	08/08/25 10:22	1
delta-BHC	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:22	1
Di(2-ethylhexyl)adipate	<0.58		0.58	ug/L		08/07/25 09:12	08/08/25 10:22	1
Dibenz(a,h)anthracene	<0.048		0.048	ug/L		08/07/25 09:12	08/08/25 10:22	1
Diclorvos (DDVP)	<0.048		0.048	ug/L		08/07/25 09:12	08/08/25 10:22	1
Dieldrin	0.066		0.0097	ug/L		08/07/25 09:12	08/08/25 10:22	1
Diethylphthalate	<0.48		0.48	ug/L		08/07/25 09:12	08/08/25 10:22	1
Dimethylphthalate	<0.48		0.48	ug/L		08/07/25 09:12	08/08/25 10:22	1
Di-n-butyl phthalate	<0.97		0.97	ug/L		08/07/25 09:12	08/08/25 10:22	1
Di-n-octyl phthalate	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:22	1

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Client Sample Results

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

Job ID: 380-164489-1
SDG: Weekly: Ka'amilo Wells Pump1/Pump 2

Client Sample ID: Ka'amilo Wells Pump 2

Lab Sample ID: 380-164489-3

Date Collected: 08/04/25 12:36

Matrix: Water

Date Received: 08/06/25 09:34

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan I (Alpha)	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:22	1
Endosulfan II (Beta)	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:22	1
Endosulfan sulfate	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:22	1
Endrin	<0.0097		0.0097	ug/L		08/07/25 09:12	08/08/25 10:22	1
Endrin aldehyde	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:22	1
EPTC	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:22	1
Fluoranthene	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:22	1
Fluorene	<0.048		0.048	ug/L		08/07/25 09:12	08/08/25 10:22	1
gamma-Chlordane	<0.048		0.048	ug/L		08/07/25 09:12	08/08/25 10:22	1
Heptachlor	<0.0097		0.0097	ug/L		08/07/25 09:12	08/08/25 10:22	1
Heptachlor epoxide (isomer B)	0.012		0.0097	ug/L		08/07/25 09:12	08/08/25 10:22	1
Hexachlorobenzene	<0.048		0.048	ug/L		08/07/25 09:12	08/08/25 10:22	1
Hexachlorocyclopentadiene	<0.048		0.048	ug/L		08/07/25 09:12	08/08/25 10:22	1
Indeno[1,2,3-cd]pyrene	<0.048		0.048	ug/L		08/07/25 09:12	08/08/25 10:22	1
Isophorone	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:22	1
Lindane	<0.0097		0.0097	ug/L		08/07/25 09:12	08/08/25 10:22	1
Malathion	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:22	1
Methoxychlor	<0.048		0.048	ug/L		08/07/25 09:12	08/08/25 10:22	1
Metolachlor	<0.048		0.048	ug/L		08/07/25 09:12	08/08/25 10:22	1
Molinate	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:22	1
Naphthalene	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:22	1
Parathion	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:22	1
Pendimethalin (Penoxaline)	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:22	1
Phenanthrene	<0.039		0.039	ug/L		08/07/25 09:12	08/08/25 10:22	1
Propachlor	<0.048		0.048	ug/L		08/07/25 09:12	08/08/25 10:22	1
Pyrene	<0.048		0.048	ug/L		08/07/25 09:12	08/08/25 10:22	1
Simazine	<0.048		0.048	ug/L		08/07/25 09:12	08/08/25 10:22	1
Terbacil	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:22	1
Terbutylazine	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:22	1
Thiobencarb	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:22	1
Total Permethrin (mixed isomers)	<0.19		0.19	ug/L		08/07/25 09:12	08/08/25 10:22	1
trans-Nonachlor	<0.048		0.048	ug/L		08/07/25 09:12	08/08/25 10:22	1
Trifluralin	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:22	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	08/07/25 09:12	08/08/25 10:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	103		70 - 130	08/07/25 09:12	08/08/25 10:22	1
Perylene-d12	73		70 - 130	08/07/25 09:12	08/08/25 10:22	1
Triphenylphosphate	97		70 - 130	08/07/25 09:12	08/08/25 10:22	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		08/11/25 05:56	08/15/25 14:20	1
2-Methylnaphthalene	<0.19		0.19	ug/L		08/11/25 05:56	08/15/25 14:20	1
Acenaphthene	<0.19		0.19	ug/L		08/11/25 05:56	08/15/25 14:20	1
Acenaphthylene	<0.19		0.19	ug/L		08/11/25 05:56	08/15/25 14:20	1
Anthracene	<0.19		0.19	ug/L		08/11/25 05:56	08/15/25 14:20	1
Benzo[a]anthracene	<0.19		0.19	ug/L		08/11/25 05:56	08/15/25 14:20	1

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Client Sample Results

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

Job ID: 380-164489-1
SDG: Weekly: Ka'amilo Wells Pump1/Pump 2

Client Sample ID: Ka'amilo Wells Pump 2

Lab Sample ID: 380-164489-3

Date Collected: 08/04/25 12:36

Matrix: Water

Date Received: 08/06/25 09:34

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.19		0.19	ug/L		08/11/25 05:56	08/15/25 14:20	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		08/11/25 05:56	08/15/25 14:20	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		08/11/25 05:56	08/15/25 14:20	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		08/11/25 05:56	08/15/25 14:20	1
Chrysene	<0.19		0.19	ug/L		08/11/25 05:56	08/15/25 14:20	1
Dibenz[a,h]anthracene	<0.19		0.19	ug/L		08/11/25 05:56	08/15/25 14:20	1
Fluoranthene	<0.19		0.19	ug/L		08/11/25 05:56	08/15/25 14:20	1
Fluorene	<0.19		0.19	ug/L		08/11/25 05:56	08/15/25 14:20	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		08/11/25 05:56	08/15/25 14:20	1
Naphthalene	<0.19		0.19	ug/L		08/11/25 05:56	08/15/25 14:20	1
Phenanthrene	<0.19		0.19	ug/L		08/11/25 05:56	08/15/25 14:20	1
Pyrene	<0.19		0.19	ug/L		08/11/25 05:56	08/15/25 14:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	93		28 - 127	08/11/25 05:56	08/15/25 14:20	1
2-Fluorobiphenyl (Surr)	83		31 - 120	08/11/25 05:56	08/15/25 14:20	1
2-Fluorophenol (Surr)	41		17 - 120	08/11/25 05:56	08/15/25 14:20	1
Nitrobenzene-d5 (Surr)	79		27 - 120	08/11/25 05:56	08/15/25 14:20	1
Phenol-d6 (Surr)	26		10 - 120	08/11/25 05:56	08/15/25 14:20	1
p-Terphenyl-d14 (Surr)	85		45 - 120	08/11/25 05:56	08/15/25 14:20	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	08/11/25 05:56	08/14/25 12:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	77		33 - 139	08/11/25 05:56	08/14/25 12:30	1
2-Fluorobiphenyl (Surr)	84		33 - 126	08/11/25 05:56	08/14/25 12:30	1
2-Fluorophenol (Surr)	42		12 - 120	08/11/25 05:56	08/14/25 12:30	1
Nitrobenzene-d5 (Surr)	88		36 - 120	08/11/25 05:56	08/14/25 12:30	1
Phenol-d6 (Surr)	22		10 - 120	08/11/25 05:56	08/14/25 12:30	1
p-Terphenyl-d14 (Surr)	87		47 - 131	08/11/25 05:56	08/14/25 12:30	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			08/16/25 15:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		38 - 134		08/16/25 15:50	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		08/11/25 11:43	08/16/25 08:29	1
Motor Oil Range Organics [C24-C36]	<26		26	ug/L		08/11/25 11:43	08/16/25 08:29	1
C8-C18	<26		26	ug/L		08/11/25 11:43	08/16/25 08:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	114		60 - 130	08/11/25 11:43	08/16/25 08:29	1

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Client Sample Results

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

Job ID: 380-164489-1
SDG: Weekly: Ka'amilo Wells Pump1/Pump 2

Client Sample ID: TB: Ka'amilo Wells Pump 2

Lab Sample ID: 380-164489-4

Date Collected: 08/04/25 12:36

Matrix: Water

Date Received: 08/06/25 09:34

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			08/16/25 20:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		38 - 134		08/16/25 20:44	1

Action Limit Summary

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

Job ID: 380-164489-1
SDG: Weekly: Ka'amilo Wells Pump1/Pump 2

Client Sample ID: Ka'amilo Wells Pump 1

Lab Sample ID: 380-164489-1

Compliance Check

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

Analyte	Result	Qualifier	Unit	EPAMCL	RL	Method	Prep Type
				Limit			
Alachlor	<0.049		ug/L	2	0.049	525.2	Total/NA
Atrazine	<0.049		ug/L	3	0.049	525.2	Total/NA
Benzo[a]pyrene	<0.019		ug/L	0.2	0.019	525.2	Total/NA
Bis(2-ethylhexyl) phthalate	<0.58		ug/L	6	0.58	525.2	Total/NA
Di(2-ethylhexyl)adipate	<0.58		ug/L	400	0.58	525.2	Total/NA
Endrin	<0.0097		ug/L	2	0.0097	525.2	Total/NA
Heptachlor	<0.0097		ug/L	0.4	0.0097	525.2	Total/NA
Heptachlor epoxide (isomer B)	0.012		ug/L	0.2	0.0097	525.2	Total/NA
Hexachlorobenzene	<0.049		ug/L	1	0.049	525.2	Total/NA
Hexachlorocyclopentadiene	<0.049		ug/L	50	0.049	525.2	Total/NA
Lindane	<0.0097		ug/L	0.2	0.0097	525.2	Total/NA
Methoxychlor	<0.049		ug/L	40	0.049	525.2	Total/NA
Simazine	<0.049		ug/L	4	0.049	525.2	Total/NA
Benzo[a]pyrene	<0.19		ug/L	0.2	0.19	625.1 SIM	Total/NA

Client Sample ID: Ka'amilo Wells Pump 2

Lab Sample ID: 380-164489-3

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)	0.012		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: 380-164489-1
SDG: Weekly: Ka'amilo Wells Pump1/Pump 2

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)
380-164489-1	Ka'amilo Wells Pump 1	98	81	101
380-164489-1 DU	Ka'amilo Wells Pump 1	96	91	101
380-164489-3	Ka'amilo Wells Pump 2	103	73	97
380-164489-3 MS	Ka'amilo Wells Pump 2	94	94	107
LCS 380-167255/23-A	Lab Control Sample	86	97	115
MB 380-167255/21-A	Method Blank	96	86	100
MRL 380-167255/22-A	Lab Control Sample	92	88	109
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)
380-164489-1	Ka'amilo Wells Pump 1	79	92	51	94	26	92
380-164489-3	Ka'amilo Wells Pump 2	77	84	42	88	22	87
MB 570-609628/1-A	Method Blank	88	86	55	96	32	101
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)
380-164489-1	Ka'amilo Wells Pump 1	88	90	41	89	27	94
380-164489-3	Ka'amilo Wells Pump 2	93	83	41	79	26	85
380-164502-A-1-B MS	Matrix Spike	84	87	44	74	29	86
380-164502-A-1-C MSD	Matrix Spike Duplicate	87	106	46	85	31	100
LCS 570-609628/2-A	Lab Control Sample	81	86	49	76	34	83
LCSD 570-609628/3-A	Lab Control Sample Dup	90	97	29	81	36	92
MB 570-609628/1-A	Method Blank	96	94	49	95	33	93
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)							

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Surrogate Summary

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

Job ID: 380-164489-1
SDG: Weekly: Ka'amilo Wells Pump1/Pump 2

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)
380-164489-1	Ka'amilo Wells Pump 1	81
380-164489-2	TB: Ka'amilo Wells Pump 1	82
380-164489-3	Ka'amilo Wells Pump 2	82
380-164489-4	TB: Ka'amilo Wells Pump 2	81
380-164502-C-1 MS	Matrix Spike	92
380-164502-C-1 MSD	Matrix Spike Duplicate	91
LCS 570-612596/3	Lab Control Sample	92
LCSD 570-612596/4	Lab Control Sample Dup	91
MB 570-612596/5	Method Blank	80
MRL 570-612596/6	Lab Control Sample	83
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)
380-164489-1	Ka'amilo Wells Pump 1	114
380-164489-3	Ka'amilo Wells Pump 2	114
380-164502-B-1-A MS	Matrix Spike	117
380-164502-B-1-B MSD	Matrix Spike Duplicate	121
LCS 570-609844/2-A	Lab Control Sample	111
LCSD 570-609844/3-A	Lab Control Sample Dup	111
MB 570-609844/1-A	Method Blank	109
MRL 570-609844/4-A	Lab Control Sample	113
Surrogate Legend		
OTCSN = n-Octacosane (Surr)		

QC Sample Results

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

Job ID: 380-164489-1
SDG: Weekly: Ka'amilo Wells Pump1/Pump 2

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

Lab Sample ID: MB 380-167255/21-A
Matrix: Water
Analysis Batch: 167457

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 167255

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:02	1
2,4'-DDD	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:02	1
2,4'-DDE	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:02	1
2,4'-DDT	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:02	1
2,4-Dinitrotoluene	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:02	1
2,6-Dinitrotoluene	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:02	1
2-Methylnaphthalene	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:02	1
4,4'-DDD	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:02	1
4,4'-DDE	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:02	1
4,4'-DDT	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:02	1
Acenaphthene	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:02	1
Acenaphthylene	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:02	1
Acetochlor	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:02	1
Alachlor	<0.049		0.049	ug/L		08/07/25 09:12	08/08/25 10:02	1
alpha-BHC	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:02	1
alpha-Chlordane	<0.049		0.049	ug/L		08/07/25 09:12	08/08/25 10:02	1
Anthracene	<0.019		0.019	ug/L		08/07/25 09:12	08/08/25 10:02	1
Atrazine	<0.049		0.049	ug/L		08/07/25 09:12	08/08/25 10:02	1
Benz(a)anthracene	<0.049		0.049	ug/L		08/07/25 09:12	08/08/25 10:02	1
Benzo[a]pyrene	<0.019		0.019	ug/L		08/07/25 09:12	08/08/25 10:02	1
Benzo[b]fluoranthene	<0.019		0.019	ug/L		08/07/25 09:12	08/08/25 10:02	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		08/07/25 09:12	08/08/25 10:02	1
Benzo[k]fluoranthene	<0.019		0.019	ug/L		08/07/25 09:12	08/08/25 10:02	1
beta-BHC	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:02	1
Bis(2-ethylhexyl) phthalate	<0.58		0.58	ug/L		08/07/25 09:12	08/08/25 10:02	1
Bromacil	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:02	1
Butachlor	<0.049		0.049	ug/L		08/07/25 09:12	08/08/25 10:02	1
Butylbenzylphthalate	<0.49		0.49	ug/L		08/07/25 09:12	08/08/25 10:02	1
Chlorobenzilate	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:02	1
Chloroneb	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:02	1
Chlorothalonil (Draconil, Bravo)	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:02	1
Chlorpyrifos	<0.049		0.049	ug/L		08/07/25 09:12	08/08/25 10:02	1
Chrysene	<0.019		0.019	ug/L		08/07/25 09:12	08/08/25 10:02	1
delta-BHC	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:02	1
Di(2-ethylhexyl)adipate	<0.58		0.58	ug/L		08/07/25 09:12	08/08/25 10:02	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		08/07/25 09:12	08/08/25 10:02	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		08/07/25 09:12	08/08/25 10:02	1
Dieldrin	<0.0097		0.0097	ug/L		08/07/25 09:12	08/08/25 10:02	1
Diethylphthalate	<0.49		0.49	ug/L		08/07/25 09:12	08/08/25 10:02	1
Dimethylphthalate	<0.49		0.49	ug/L		08/07/25 09:12	08/08/25 10:02	1
Di-n-butyl phthalate	<0.97		0.97	ug/L		08/07/25 09:12	08/08/25 10:02	1
Di-n-octyl phthalate	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:02	1
Endosulfan I (Alpha)	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:02	1
Endosulfan II (Beta)	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:02	1
Endosulfan sulfate	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:02	1
Endrin	<0.0097		0.0097	ug/L		08/07/25 09:12	08/08/25 10:02	1
Endrin aldehyde	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:02	1
EPTC	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:02	1

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QC Sample Results

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

Job ID: 380-164489-1
SDG: Weekly: Ka'amilo Wells Pump1/Pump 2

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

Lab Sample ID: MB 380-167255/21-A

Matrix: Water

Analysis Batch: 167457

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 167255

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:02	1
Fluorene	<0.049		0.049	ug/L		08/07/25 09:12	08/08/25 10:02	1
gamma-Chlordane	<0.049		0.049	ug/L		08/07/25 09:12	08/08/25 10:02	1
Heptachlor	<0.0097		0.0097	ug/L		08/07/25 09:12	08/08/25 10:02	1
Heptachlor epoxide (isomer B)	<0.0097		0.0097	ug/L		08/07/25 09:12	08/08/25 10:02	1
Hexachlorobenzene	<0.049		0.049	ug/L		08/07/25 09:12	08/08/25 10:02	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		08/07/25 09:12	08/08/25 10:02	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		08/07/25 09:12	08/08/25 10:02	1
Isophorone	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:02	1
Lindane	<0.0097		0.0097	ug/L		08/07/25 09:12	08/08/25 10:02	1
Malathion	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:02	1
Methoxychlor	<0.049		0.049	ug/L		08/07/25 09:12	08/08/25 10:02	1
Metolachlor	<0.049		0.049	ug/L		08/07/25 09:12	08/08/25 10:02	1
Molinate	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:02	1
Naphthalene	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:02	1
Parathion	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:02	1
Pendimethalin (Penoxaline)	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:02	1
Phenanthrene	<0.039		0.039	ug/L		08/07/25 09:12	08/08/25 10:02	1
Propachlor	<0.049		0.049	ug/L		08/07/25 09:12	08/08/25 10:02	1
Pyrene	<0.049		0.049	ug/L		08/07/25 09:12	08/08/25 10:02	1
Simazine	<0.049		0.049	ug/L		08/07/25 09:12	08/08/25 10:02	1
Terbacil	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:02	1
Terbutylazine	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:02	1
Thiobencarb	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:02	1
Total Permethrin (mixed isomers)	<0.19		0.19	ug/L		08/07/25 09:12	08/08/25 10:02	1
trans-Nonachlor	<0.049		0.049	ug/L		08/07/25 09:12	08/08/25 10:02	1
Trifluralin	<0.097		0.097	ug/L		08/07/25 09:12	08/08/25 10:02	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	0.500	T J	ug/L		2.55	N/A	08/07/25 09:12	08/08/25 10:02	1
Decane	2.04	T J N	ug/L		2.72	124-18-5	08/07/25 09:12	08/08/25 10:02	1
Phenol, p-tert-butyl-	0.838	T J N	ug/L		3.80	98-54-4	08/07/25 09:12	08/08/25 10:02	1
9-Octadecenamamide, (Z)-	1.89	T J N	ug/L		7.80	301-02-0	08/07/25 09:12	08/08/25 10:02	1
Unknown	1.10	T J	ug/L		15.38	N/A	08/07/25 09:12	08/08/25 10:02	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	96		70 - 130	08/07/25 09:12	08/08/25 10:02	1
Perylene-d12	86		70 - 130	08/07/25 09:12	08/08/25 10:02	1
Triphenylphosphate	100		70 - 130	08/07/25 09:12	08/08/25 10:02	1

Lab Sample ID: LCS 380-167255/23-A

Matrix: Water

Analysis Batch: 167457

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 167255

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	1.95	1.76		ug/L		90	70 - 130
2,4'-DDD	1.95	2.20		ug/L		113	70 - 130
2,4'-DDE	1.95	2.08		ug/L		107	70 - 130

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QC Sample Results

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

Job ID: 380-164489-1
SDG: Weekly: Ka'amilo Wells Pump1/Pump 2

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

Lab Sample ID: LCS 380-167255/23-A

Matrix: Water

Analysis Batch: 167457

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 167255

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4'-DDT	1.95	2.05		ug/L		106	70 - 130
2,4-Dinitrotoluene	1.95	2.16		ug/L		111	70 - 130
2,6-Dinitrotoluene	1.95	1.77		ug/L		91	70 - 130
2-Methylnaphthalene	1.95	1.76		ug/L		91	70 - 130
4,4'-DDD	1.95	2.13		ug/L		110	70 - 130
4,4'-DDE	1.95	2.19		ug/L		113	70 - 130
4,4'-DDT	1.95	2.03		ug/L		104	70 - 130
Acenaphthene	1.95	1.83		ug/L		94	70 - 130
Acenaphthylene	1.95	1.95		ug/L		100	70 - 130
Acetochlor	1.95	2.03		ug/L		104	70 - 130
Alachlor	1.95	2.06		ug/L		106	70 - 130
alpha-BHC	1.95	2.07		ug/L		106	70 - 130
alpha-Chlordane	1.95	2.45		ug/L		126	70 - 130
Anthracene	1.95	2.05		ug/L		106	70 - 130
Atrazine	1.95	2.26		ug/L		116	70 - 130
Benz(a)anthracene	1.95	2.02		ug/L		104	70 - 130
Benzo[a]pyrene	1.95	2.13		ug/L		110	70 - 130
Benzo[b]fluoranthene	1.95	2.10		ug/L		108	70 - 130
Benzo[g,h,i]perylene	1.95	1.84		ug/L		95	70 - 130
Benzo[k]fluoranthene	1.95	1.98		ug/L		102	70 - 130
beta-BHC	1.95	2.11		ug/L		108	70 - 130
Bis(2-ethylhexyl) phthalate	1.95	1.77		ug/L		91	70 - 130
Bromacil	1.95	1.96		ug/L		101	70 - 130
Butachlor	1.95	2.03		ug/L		104	70 - 130
Butylbenzylphthalate	1.95	1.92		ug/L		99	70 - 130
Chlorobenzilate	1.95	1.86		ug/L		96	70 - 130
Chloroneb	1.95	2.02		ug/L		104	70 - 130
Chlorothalonil (Draconil, Bravo)	1.95	2.20		ug/L		113	70 - 130
Chlorpyrifos	1.95	2.18		ug/L		112	70 - 130
Chrysene	1.95	1.98		ug/L		102	70 - 130
delta-BHC	1.95	1.88		ug/L		97	70 - 130
Di(2-ethylhexyl)adipate	1.95	1.91		ug/L		98	70 - 130
Dibenz(a,h)anthracene	1.95	1.95		ug/L		100	70 - 130
Diclorvos (DDVP)	1.95	1.86		ug/L		95	70 - 130
Dieldrin	1.95	1.99		ug/L		102	70 - 130
Diethylphthalate	1.95	2.13		ug/L		110	70 - 130
Dimethylphthalate	1.95	2.01		ug/L		103	70 - 130
Di-n-butyl phthalate	3.89	4.48		ug/L		115	70 - 130
Di-n-octyl phthalate	1.95	1.85		ug/L		95	70 - 130
Endosulfan I (Alpha)	1.95	1.96		ug/L		101	70 - 130
Endosulfan II (Beta)	1.95	1.88		ug/L		97	70 - 130
Endosulfan sulfate	1.95	1.94		ug/L		100	70 - 130
Endrin	1.95	2.25		ug/L		116	70 - 130
Endrin aldehyde	1.95	2.20		ug/L		113	60 - 130
EPTC	1.95	1.89		ug/L		97	70 - 130
Fluoranthene	1.95	2.15		ug/L		110	70 - 130
Fluorene	1.95	2.01		ug/L		103	70 - 130
gamma-Chlordane	1.95	2.40		ug/L		123	70 - 130
Heptachlor	1.95	2.22		ug/L		114	70 - 130

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QC Sample Results

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

Job ID: 380-164489-1
SDG: Weekly: Ka'amilo Wells Pump1/Pump 2

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

Lab Sample ID: LCS 380-167255/23-A

Matrix: Water

Analysis Batch: 167457

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 167255

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Heptachlor epoxide (isomer B)	1.95	2.29		ug/L		118	70 - 130
Hexachlorobenzene	1.95	2.16		ug/L		111	70 - 130
Hexachlorocyclopentadiene	1.95	2.17		ug/L		111	70 - 130
Indeno[1,2,3-cd]pyrene	1.95	2.08		ug/L		107	70 - 130
Isophorone	1.95	1.86		ug/L		96	70 - 130
Lindane	1.95	2.25		ug/L		116	70 - 130
Malathion	1.95	2.09		ug/L		108	70 - 130
Methoxychlor	1.95	2.24		ug/L		115	70 - 130
Metolachlor	1.95	2.17		ug/L		112	70 - 130
Molinate	1.95	2.02		ug/L		104	70 - 130
Naphthalene	1.95	1.77		ug/L		91	70 - 130
Parathion	1.95	1.98		ug/L		102	70 - 130
Pendimethalin (Penoxaline)	1.95	2.34		ug/L		120	70 - 130
Phenanthrene	1.95	1.83		ug/L		94	70 - 130
Propachlor	1.95	2.09		ug/L		108	70 - 130
Pyrene	1.95	2.18		ug/L		112	70 - 130
Simazine	1.95	2.14		ug/L		110	70 - 130
Terbacil	1.95	1.98		ug/L		102	70 - 130
Terbuthylazine	1.95	2.25		ug/L		116	70 - 130
Thiobencarb	1.95	2.04		ug/L		105	70 - 130
trans-Nonachlor	1.95	2.53		ug/L		130	70 - 130
Trifluralin	1.95	2.38		ug/L		123	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Nitro-m-xylene	86		70 - 130
Perylene-d12	97		70 - 130
Triphenylphosphate	115		70 - 130

Lab Sample ID: MRL 380-167255/22-A

Matrix: Water

Analysis Batch: 167457

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 167255

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	0.0971	0.105		ug/L		109	50 - 150
2,4'-DDD	0.0971	0.0847	J	ug/L		87	50 - 150
2,4'-DDE	0.0971	0.0907	J	ug/L		93	50 - 150
2,4'-DDT	0.0971	0.113		ug/L		116	50 - 150
2,4-Dinitrotoluene	0.0971	0.118		ug/L		121	50 - 150
2,6-Dinitrotoluene	0.0971	0.117		ug/L		120	50 - 150
2-Methylnaphthalene	0.0971	0.0966	J	ug/L		99	50 - 150
4,4'-DDD	0.0971	0.0947	J	ug/L		97	50 - 150
4,4'-DDE	0.0971	0.0907	J	ug/L		93	50 - 150
4,4'-DDT	0.0971	0.116		ug/L		120	50 - 150
Acenaphthene	0.0971	0.0886	J	ug/L		91	50 - 150
Acenaphthylene	0.0971	0.0823	J	ug/L		85	50 - 150
Acetochlor	0.0971	0.101		ug/L		104	50 - 150
Alachlor	0.0486	0.0470	J	ug/L		97	50 - 150
alpha-BHC	0.0971	0.0877	J	ug/L		90	50 - 150

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-164489-1
SDG: Weekly: Ka'amilo Wells Pump1/Pump 2

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

Lab Sample ID: MRL 380-167255/22-A

Matrix: Water

Analysis Batch: 167457

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 167255

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
alpha-Chlordane	0.0243	0.0285	J	ug/L		117	50 - 150
Anthracene	0.0194	0.0194		ug/L		100	50 - 150
Atrazine	0.0486	0.0544		ug/L		112	50 - 150
Benz(a)anthracene	0.0486	0.0487	J	ug/L		100	50 - 150
Benzo[a]pyrene	0.0194	0.0217		ug/L		112	50 - 150
Benzo[b]fluoranthene	0.0194	0.0228		ug/L		117	50 - 150
Benzo[g,h,i]perylene	0.0486	0.0498		ug/L		103	50 - 150
Benzo[k]fluoranthene	0.0194	0.0253		ug/L		130	50 - 150
beta-BHC	0.0971	0.0954	J	ug/L		98	50 - 150
Bis(2-ethylhexyl) phthalate	0.583	0.518	J	ug/L		89	50 - 150
Bromacil	0.0971	0.130		ug/L		133	50 - 150
Butachlor	0.0486	0.0543		ug/L		112	50 - 150
Butylbenzylphthalate	0.486	0.463	J	ug/L		95	50 - 150
Chlorobenzilate	0.0971	0.101		ug/L		104	50 - 150
Chloroneb	0.0971	0.0938	J	ug/L		97	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0971	0.0819	J	ug/L		84	50 - 150
Chlorpyrifos	0.0486	0.0479	J	ug/L		99	50 - 150
Chrysene	0.0194	0.0206		ug/L		106	50 - 150
delta-BHC	0.0971	0.0847	J	ug/L		87	50 - 150
Di(2-ethylhexyl)adipate	0.583	0.546	J	ug/L		94	50 - 150
Dibenz(a,h)anthracene	0.0486	0.0536		ug/L		110	50 - 150
Diclorvos (DDVP)	0.0486	0.0525		ug/L		108	50 - 150
Dieldrin	0.00971	0.0143		ug/L		147	50 - 150
Diethylphthalate	0.486	0.489	J	ug/L		101	50 - 150
Dimethylphthalate	0.486	0.480	J	ug/L		99	50 - 150
Di-n-butyl phthalate	0.486	0.888	J	ug/L		183	49 - 243
Di-n-octyl phthalate	0.0971	0.0990		ug/L		102	50 - 150
Endosulfan I (Alpha)	0.0971	0.0863	J	ug/L		89	50 - 150
Endosulfan II (Beta)	0.0971	0.0888	J	ug/L		91	50 - 150
Endosulfan sulfate	0.0971	0.105		ug/L		108	50 - 150
Endrin	0.00971	0.00913	J	ug/L		94	50 - 150
Endrin aldehyde	0.0971	0.130		ug/L		134	50 - 150
EPTC	0.0971	0.0881	J	ug/L		91	50 - 150
Fluoranthene	0.0971	0.0887	J	ug/L		91	50 - 150
Fluorene	0.0486	<0.049		ug/L		91	50 - 150
gamma-Chlordane	0.0243	0.0252	J	ug/L		104	50 - 150
Heptachlor	0.00971	0.0106		ug/L		109	50 - 150
Heptachlor epoxide (isomer B)	0.00971	0.00956	J	ug/L		98	50 - 150
Hexachlorobenzene	0.0486	0.0448	J	ug/L		92	50 - 150
Hexachlorocyclopentadiene	0.0486	0.0486	J	ug/L		100	50 - 150
Indeno[1,2,3-cd]pyrene	0.0486	0.0548		ug/L		113	50 - 150
Isophorone	0.0971	0.114		ug/L		117	50 - 150
Lindane	0.00971	0.0118		ug/L		122	50 - 150
Malathion	0.0971	0.105		ug/L		108	50 - 150
Methoxychlor	0.0486	0.0603		ug/L		124	50 - 150
Metolachlor	0.0486	0.0530		ug/L		109	50 - 150
Molinate	0.0971	0.0953	J	ug/L		98	50 - 150
Naphthalene	0.0971	0.0911	J	ug/L		94	50 - 150
Parathion	0.0971	0.0962	J	ug/L		99	50 - 150

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QC Sample Results

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

Job ID: 380-164489-1
SDG: Weekly: Ka'amilo Wells Pump1/Pump 2

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

Lab Sample ID: MRL 380-167255/22-A

Matrix: Water

Analysis Batch: 167457

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 167255

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Pendimethalin (Penoxaline)	0.0971	0.128		ug/L		132	50 - 150
Phenanthrene	0.0389	0.0376	J	ug/L		97	50 - 150
Propachlor	0.0486	0.0535		ug/L		110	50 - 150
Pyrene	0.0486	0.0446	J	ug/L		92	50 - 150
Simazine	0.0486	0.0558		ug/L		115	50 - 150
Terbacil	0.0971	0.106		ug/L		109	50 - 150
Terbutylazine	0.0971	0.108		ug/L		111	50 - 150
Thiobencarb	0.0971	0.0901	J	ug/L		93	50 - 150
trans-Nonachlor	0.0243	0.0262	J	ug/L		108	50 - 150
Trifluralin	0.0971	0.119		ug/L		122	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
2-Nitro-m-xylene	92		70 - 130
Perylene-d12	88		70 - 130
Triphenylphosphate	109		70 - 130

Lab Sample ID: 380-164489-3 MS

Matrix: Water

Analysis Batch: 167457

Client Sample ID: Ka'amilo Wells Pump 2

Prep Type: Total/NA

Prep Batch: 167255

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.097		1.94	1.84		ug/L		94	70 - 130
2,4'-DDD	<0.097		1.94	2.13		ug/L		110	70 - 130
2,4'-DDE	<0.097		1.94	2.00		ug/L		103	70 - 130
2,4'-DDT	<0.097		1.94	1.98		ug/L		102	70 - 130
2,4-Dinitrotoluene	<0.097		1.94	2.23		ug/L		115	70 - 130
2,6-Dinitrotoluene	<0.097		1.94	1.90		ug/L		98	70 - 130
2-Methylnaphthalene	<0.097		1.94	1.84		ug/L		95	70 - 130
4,4'-DDD	<0.097		1.94	2.08		ug/L		107	70 - 130
4,4'-DDE	<0.097		1.94	1.99		ug/L		103	70 - 130
4,4'-DDT	<0.097		1.94	1.94		ug/L		100	70 - 130
Acenaphthene	<0.097		1.94	1.83		ug/L		95	70 - 130
Acenaphthylene	<0.097		1.94	1.94		ug/L		100	70 - 130
Acetochlor	<0.097		1.94	2.01		ug/L		104	70 - 130
Alachlor	<0.048		1.94	1.97		ug/L		102	70 - 130
alpha-BHC	<0.097		1.94	1.91		ug/L		98	70 - 130
alpha-Chlordane	<0.048		1.94	2.30		ug/L		117	70 - 130
Anthracene	<0.019	F1	1.94	0.906	F1	ug/L		47	70 - 130
Atrazine	<0.048		1.94	2.01		ug/L		104	70 - 130
Benz(a)anthracene	<0.048		1.94	1.73		ug/L		89	70 - 130
Benzo[a]pyrene	<0.019		1.94	1.63		ug/L		84	70 - 130
Benzo[b]fluoranthene	<0.019		1.94	2.10		ug/L		108	70 - 130
Benzo[g,h,i]perylene	<0.048		1.94	1.77		ug/L		91	70 - 130
Benzo[k]fluoranthene	<0.019		1.94	2.00		ug/L		103	70 - 130
beta-BHC	<0.097		1.94	1.95		ug/L		101	70 - 130
Bis(2-ethylhexyl) phthalate	<0.58		1.94	1.77		ug/L		91	70 - 130
Bromacil	<0.097		1.94	2.04		ug/L		103	70 - 130
Butachlor	<0.048		1.94	1.97		ug/L		102	70 - 130

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QC Sample Results

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

Job ID: 380-164489-1
SDG: Weekly: Ka'amilo Wells Pump1/Pump 2

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

Lab Sample ID: 380-164489-3 MS

Matrix: Water

Analysis Batch: 167457

Client Sample ID: Ka'amilo Wells Pump 2

Prep Type: Total/NA

Prep Batch: 167255

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Butylbenzylphthalate	<0.48		1.94	1.88		ug/L		97	70 - 130
Chlorobenzilate	<0.097		1.94	1.88		ug/L		97	70 - 130
Chloroneb	<0.097		1.94	1.97		ug/L		102	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.097		1.94	2.07		ug/L		107	70 - 130
Chlorpyrifos	<0.048		1.94	2.11		ug/L		109	70 - 130
Chrysene	<0.019		1.94	1.93		ug/L		100	70 - 130
delta-BHC	<0.097		1.94	1.80		ug/L		93	70 - 130
Di(2-ethylhexyl)adipate	<0.58		1.94	1.86		ug/L		96	70 - 130
Dibenz(a,h)anthracene	<0.048		1.94	1.89		ug/L		98	70 - 130
Diclorvos (DDVP)	<0.048		1.94	2.02		ug/L		104	70 - 130
Dieldrin	0.066		1.94	1.98		ug/L		99	70 - 130
Diethylphthalate	<0.48		1.94	2.01		ug/L		104	70 - 130
Dimethylphthalate	<0.48		1.94	1.98		ug/L		102	70 - 130
Di-n-butyl phthalate	<0.97		3.88	4.56		ug/L		118	70 - 130
Di-n-octyl phthalate	<0.097		1.94	1.89		ug/L		98	70 - 130
Endosulfan I (Alpha)	<0.097		1.94	1.89		ug/L		97	70 - 130
Endosulfan II (Beta)	<0.097		1.94	1.82		ug/L		94	70 - 130
Endosulfan sulfate	<0.097		1.94	1.83		ug/L		94	70 - 130
Endrin	<0.0097		1.94	2.13		ug/L		110	70 - 130
Endrin aldehyde	<0.097		1.94	1.89		ug/L		98	60 - 130
EPTC	<0.097		1.94	1.99		ug/L		103	70 - 130
Fluoranthene	<0.097		1.94	2.02		ug/L		104	70 - 130
Fluorene	<0.048		1.94	1.93		ug/L		100	70 - 130
gamma-Chlordane	<0.048		1.94	2.30		ug/L		118	70 - 130
Heptachlor	<0.0097		1.94	2.17		ug/L		112	70 - 130
Heptachlor epoxide (isomer B)	0.012		1.94	2.10		ug/L		108	70 - 130
Hexachlorobenzene	<0.048		1.94	2.02		ug/L		104	70 - 130
Hexachlorocyclopentadiene	<0.048		1.94	2.37		ug/L		122	70 - 130
Indeno[1,2,3-cd]pyrene	<0.048		1.94	2.07		ug/L		107	70 - 130
Isophorone	<0.097		1.94	2.08		ug/L		108	70 - 130
Lindane	<0.0097		1.94	2.09		ug/L		108	70 - 130
Malathion	<0.097		1.94	1.94		ug/L		100	70 - 130
Methoxychlor	<0.048		1.94	2.15		ug/L		111	70 - 130
Metolachlor	<0.048		1.94	2.07		ug/L		107	70 - 130
Molinate	<0.097		1.94	2.00		ug/L		103	70 - 130
Naphthalene	<0.097		1.94	1.90		ug/L		98	70 - 130
Parathion	<0.097		1.94	1.91		ug/L		99	70 - 130
Pendimethalin (Penoxaline)	<0.097		1.94	2.24		ug/L		116	70 - 130
Phenanthrene	<0.039		1.94	1.78		ug/L		92	70 - 130
Propachlor	<0.048		1.94	1.98		ug/L		102	70 - 130
Pyrene	<0.048		1.94	2.03		ug/L		105	70 - 130
Simazine	<0.048		1.94	2.01		ug/L		104	70 - 130
Terbacil	<0.097		1.94	2.00		ug/L		103	70 - 130
Terbuthylazine	<0.097		1.94	2.09		ug/L		108	70 - 130
Thiobencarb	<0.097		1.94	1.97		ug/L		101	70 - 130
trans-Nonachlor	<0.048		1.94	2.35		ug/L		121	70 - 130
Trifluralin	<0.097		1.94	2.21		ug/L		114	70 - 130

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QC Sample Results

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

Job ID: 380-164489-1
SDG: Weekly: Ka'amilo Wells Pump1/Pump 2

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

Lab Sample ID: 380-164489-3 MS

Matrix: Water

Analysis Batch: 167457

Client Sample ID: Ka'amilo Wells Pump 2

Prep Type: Total/NA

Prep Batch: 167255

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
2-Nitro-m-xylene	94		70 - 130
Perylene-d12	94		70 - 130
Triphenylphosphate	107		70 - 130

Lab Sample ID: 380-164489-1 DU

Matrix: Water

Analysis Batch: 167457

Client Sample ID: Ka'amilo Wells Pump 1

Prep Type: Total/NA

Prep Batch: 167255

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
1-Methylnaphthalene	<0.097		<0.097		ug/L		NC	20
2,4'-DDD	<0.097		<0.097		ug/L		NC	20
2,4'-DDE	<0.097		<0.097		ug/L		NC	20
2,4'-DDT	<0.097		<0.097		ug/L		NC	20
2,4-Dinitrotoluene	<0.097		<0.097		ug/L		NC	20
2,6-Dinitrotoluene	<0.097		<0.097		ug/L		NC	20
2-Methylnaphthalene	<0.097		<0.097		ug/L		NC	20
4,4'-DDD	<0.097		<0.097		ug/L		NC	20
4,4'-DDE	<0.097		<0.097		ug/L		NC	20
4,4'-DDT	<0.097		<0.097		ug/L		NC	20
Acenaphthene	<0.097		<0.097		ug/L		NC	20
Acenaphthylene	<0.097		<0.097		ug/L		NC	20
Acetochlor	<0.097		<0.097		ug/L		NC	20
Alachlor	<0.049		<0.049		ug/L		NC	20
alpha-BHC	<0.097		<0.097		ug/L		NC	20
alpha-Chlordane	<0.049		<0.049		ug/L		NC	20
Anthracene	<0.019		<0.019		ug/L		NC	20
Atrazine	<0.049		<0.049		ug/L		NC	20
Benz(a)anthracene	<0.049		<0.049		ug/L		NC	20
Benzo[a]pyrene	<0.019		<0.019		ug/L		NC	20
Benzo[b]fluoranthene	<0.019		<0.019		ug/L		NC	20
Benzo[g,h,i]perylene	<0.049		<0.049		ug/L		NC	20
Benzo[k]fluoranthene	<0.019		<0.019		ug/L		NC	20
beta-BHC	<0.097		<0.097		ug/L		NC	20
Bis(2-ethylhexyl) phthalate	<0.58		<0.58		ug/L		NC	20
Bromacil	<0.097		<0.097		ug/L		NC	20
Butachlor	<0.049		<0.049		ug/L		NC	20
Butylbenzylphthalate	<0.49		<0.49		ug/L		NC	20
Chlorobenzilate	<0.097		<0.097		ug/L		NC	20
Chloroneb	<0.097		<0.097		ug/L		NC	20
Chlorothalonil (Draconil, Bravo)	<0.097		<0.097		ug/L		NC	20
Chlorpyrifos	<0.049		<0.049		ug/L		NC	20
Chrysene	<0.019		<0.019		ug/L		NC	20
delta-BHC	<0.097		<0.097		ug/L		NC	20
Di(2-ethylhexyl)adipate	<0.58		<0.58		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
Dieldrin	0.071		0.0681		ug/L		5	20
Diethylphthalate	<0.49		<0.49		ug/L		NC	20

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QC Sample Results

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

Job ID: 380-164489-1
SDG: Weekly: Ka'amilo Wells Pump1/Pump 2

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

Lab Sample ID: 380-164489-1 DU

Matrix: Water

Analysis Batch: 167457

Client Sample ID: Ka'amilo Wells Pump 1

Prep Type: Total/NA

Prep Batch: 167255

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Dimethylphthalate	<0.49		<0.49		ug/L		NC	20
Di-n-butyl phthalate	<0.97		<0.97		ug/L		NC	20
Di-n-octyl phthalate	<0.097		<0.097		ug/L		NC	20
Endosulfan I (Alpha)	<0.097		<0.097		ug/L		NC	20
Endosulfan II (Beta)	<0.097		<0.097		ug/L		NC	20
Endosulfan sulfate	<0.097		<0.097		ug/L		NC	20
Endrin	<0.0097		<0.0097		ug/L		NC	20
Endrin aldehyde	<0.097		<0.097		ug/L		NC	20
EPTC	<0.097		<0.097		ug/L		NC	20
Fluoranthene	<0.097		<0.097		ug/L		NC	20
Fluorene	<0.049		<0.049		ug/L		NC	20
gamma-Chlordane	<0.049		<0.049		ug/L		NC	20
Heptachlor	<0.0097		<0.0097		ug/L		NC	20
Heptachlor epoxide (isomer B)	0.012		0.0117		ug/L		4	20
Hexachlorobenzene	<0.049		<0.049		ug/L		NC	20
Hexachlorocyclopentadiene	<0.049		<0.049		ug/L		NC	20
Indeno[1,2,3-cd]pyrene	<0.049		<0.049		ug/L		NC	20
Isophorone	<0.097		<0.097		ug/L		NC	20
Lindane	<0.0097		<0.0097		ug/L		NC	20
Malathion	<0.097		<0.097		ug/L		NC	20
Methoxychlor	<0.049		<0.049		ug/L		NC	20
Metolachlor	<0.049		<0.049		ug/L		NC	20
Molinate	<0.097		<0.097		ug/L		NC	20
Naphthalene	<0.097		<0.097		ug/L		NC	20
Parathion	<0.097		<0.097		ug/L		NC	20
Pendimethalin (Penoxaline)	<0.097		<0.097		ug/L		NC	20
Phenanthrene	<0.039		<0.039		ug/L		NC	20
Propachlor	<0.049		<0.049		ug/L		NC	20
Pyrene	<0.049		<0.049		ug/L		NC	20
Simazine	<0.049		<0.049		ug/L		NC	20
Terbacil	<0.097		<0.097		ug/L		NC	20
Terbutylazine	<0.097		<0.097		ug/L		NC	20
Thiobencarb	<0.097		<0.097		ug/L		NC	20
Total Permethrin (mixed isomers)	<0.19		<0.19		ug/L		NC	20
trans-Nonachlor	<0.049		<0.049		ug/L		NC	20
Trifluralin	<0.097		<0.097		ug/L		NC	20

Surrogate	DU %Recovery	DU Qualifier	Limits
2-Nitro-m-xylene	96		70 - 130
Perylene-d12	91		70 - 130
Triphenylphosphate	101		70 - 130

QC Sample Results

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

Job ID: 380-164489-1
SDG: Weekly: Ka'amilo Wells Pump1/Pump 2

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

Lab Sample ID: MB 570-609628/1-A
Matrix: Water
Analysis Batch: 611489

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 609628

<i>Tentatively Identified Compound</i>	<i>Est. Result</i>	<i>MB MB Qualifier</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>	<i>None</i>		<i>ug/L</i>			<i>N/A</i>	<i>08/11/25 05:56</i>	<i>08/14/25 10:56</i>	<i>1</i>
<i>Surrogate</i>	<i>%Recovery</i>	<i>MB MB Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>2,4,6-Tribromophenol (Surr)</i>	<i>88</i>		<i>33 - 139</i>				<i>08/11/25 05:56</i>	<i>08/14/25 10:56</i>	<i>1</i>
<i>2-Fluorobiphenyl (Surr)</i>	<i>86</i>		<i>33 - 126</i>				<i>08/11/25 05:56</i>	<i>08/14/25 10:56</i>	<i>1</i>
<i>2-Fluorophenol (Surr)</i>	<i>55</i>		<i>12 - 120</i>				<i>08/11/25 05:56</i>	<i>08/14/25 10:56</i>	<i>1</i>
<i>Nitrobenzene-d5 (Surr)</i>	<i>96</i>		<i>36 - 120</i>				<i>08/11/25 05:56</i>	<i>08/14/25 10:56</i>	<i>1</i>
<i>Phenol-d6 (Surr)</i>	<i>32</i>		<i>10 - 120</i>				<i>08/11/25 05:56</i>	<i>08/14/25 10:56</i>	<i>1</i>
<i>p-Terphenyl-d14 (Surr)</i>	<i>101</i>		<i>47 - 131</i>				<i>08/11/25 05:56</i>	<i>08/14/25 10:56</i>	<i>1</i>

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

Lab Sample ID: MB 570-609628/1-A
Matrix: Water
Analysis Batch: 610847

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 609628

<i>Analyte</i>	<i>Result</i>	<i>MB MB Qualifier</i>	<i>RL</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>1-Methylnaphthalene</i>	<i><0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>08/11/25 05:56</i>	<i>08/13/25 08:15</i>	<i>1</i>
<i>2-Methylnaphthalene</i>	<i><0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>08/11/25 05:56</i>	<i>08/13/25 08:15</i>	<i>1</i>
<i>Acenaphthene</i>	<i><0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>08/11/25 05:56</i>	<i>08/13/25 08:15</i>	<i>1</i>
<i>Acenaphthylene</i>	<i><0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>08/11/25 05:56</i>	<i>08/13/25 08:15</i>	<i>1</i>
<i>Anthracene</i>	<i><0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>08/11/25 05:56</i>	<i>08/13/25 08:15</i>	<i>1</i>
<i>Benzo[a]anthracene</i>	<i><0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>08/11/25 05:56</i>	<i>08/13/25 08:15</i>	<i>1</i>
<i>Benzo[a]pyrene</i>	<i><0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>08/11/25 05:56</i>	<i>08/13/25 08:15</i>	<i>1</i>
<i>Benzo[b]fluoranthene</i>	<i><0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>08/11/25 05:56</i>	<i>08/13/25 08:15</i>	<i>1</i>
<i>Benzo[g,h,i]perylene</i>	<i><0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>08/11/25 05:56</i>	<i>08/13/25 08:15</i>	<i>1</i>
<i>Benzo[k]fluoranthene</i>	<i><0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>08/11/25 05:56</i>	<i>08/13/25 08:15</i>	<i>1</i>
<i>Chrysene</i>	<i><0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>08/11/25 05:56</i>	<i>08/13/25 08:15</i>	<i>1</i>
<i>Dibenz(a,h)anthracene</i>	<i><0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>08/11/25 05:56</i>	<i>08/13/25 08:15</i>	<i>1</i>
<i>Fluoranthene</i>	<i><0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>08/11/25 05:56</i>	<i>08/13/25 08:15</i>	<i>1</i>
<i>Fluorene</i>	<i><0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>08/11/25 05:56</i>	<i>08/13/25 08:15</i>	<i>1</i>
<i>Indeno[1,2,3-cd]pyrene</i>	<i><0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>08/11/25 05:56</i>	<i>08/13/25 08:15</i>	<i>1</i>
<i>Naphthalene</i>	<i><0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>08/11/25 05:56</i>	<i>08/13/25 08:15</i>	<i>1</i>
<i>Phenanthrene</i>	<i><0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>08/11/25 05:56</i>	<i>08/13/25 08:15</i>	<i>1</i>
<i>Pyrene</i>	<i><0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>08/11/25 05:56</i>	<i>08/13/25 08:15</i>	<i>1</i>
<i>Surrogate</i>	<i>%Recovery</i>	<i>MB MB Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>2,4,6-Tribromophenol (Surr)</i>	<i>96</i>		<i>28 - 127</i>			<i>08/11/25 05:56</i>	<i>08/13/25 08:15</i>	<i>1</i>
<i>2-Fluorobiphenyl (Surr)</i>	<i>94</i>		<i>31 - 120</i>			<i>08/11/25 05:56</i>	<i>08/13/25 08:15</i>	<i>1</i>
<i>2-Fluorophenol (Surr)</i>	<i>49</i>		<i>17 - 120</i>			<i>08/11/25 05:56</i>	<i>08/13/25 08:15</i>	<i>1</i>
<i>Nitrobenzene-d5 (Surr)</i>	<i>95</i>		<i>27 - 120</i>			<i>08/11/25 05:56</i>	<i>08/13/25 08:15</i>	<i>1</i>
<i>Phenol-d6 (Surr)</i>	<i>33</i>		<i>10 - 120</i>			<i>08/11/25 05:56</i>	<i>08/13/25 08:15</i>	<i>1</i>
<i>p-Terphenyl-d14 (Surr)</i>	<i>93</i>		<i>45 - 120</i>			<i>08/11/25 05:56</i>	<i>08/13/25 08:15</i>	<i>1</i>

QC Sample Results

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

Job ID: 380-164489-1
SDG: Weekly: Ka'amilo Wells Pump1/Pump 2

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

Lab Sample ID: LCS 570-609628/2-A

Matrix: Water

Analysis Batch: 610847

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 609628

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	20.0	17.4		ug/L		87	47 - 120
2-Methylnaphthalene	20.0	16.9		ug/L		85	43 - 120
Acenaphthene	20.0	20.6		ug/L		103	60 - 132
Acenaphthylene	20.0	20.5		ug/L		103	54 - 126
Anthracene	20.0	20.3		ug/L		102	43 - 120
Benzo[a]anthracene	20.0	20.0		ug/L		100	42 - 133
Benzo[a]pyrene	20.0	16.0		ug/L		80	32 - 148
Benzo[b]fluoranthene	20.0	18.0		ug/L		90	42 - 140
Benzo[g,h,i]perylene	20.0	28.1		ug/L		140	1 - 195
Benzo[k]fluoranthene	20.0	17.7		ug/L		88	25 - 146
Chrysene	20.0	20.4		ug/L		102	44 - 140
Dibenz(a,h)anthracene	20.0	27.3		ug/L		137	1 - 200
Fluoranthene	20.0	20.9		ug/L		105	43 - 121
Fluorene	20.0	20.6		ug/L		103	70 - 120
Indeno[1,2,3-cd]pyrene	20.0	26.8		ug/L		134	1 - 151
Naphthalene	20.0	17.1		ug/L		85	36 - 120
Phenanthrene	20.0	20.5		ug/L		103	65 - 120
Pyrene	20.0	20.2		ug/L		101	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	81		28 - 127
2-Fluorobiphenyl (Surr)	86		31 - 120
2-Fluorophenol (Surr)	49		17 - 120
Nitrobenzene-d5 (Surr)	76		27 - 120
Phenol-d6 (Surr)	34		10 - 120
p-Terphenyl-d14 (Surr)	83		45 - 120

Lab Sample ID: LCSD 570-609628/3-A

Matrix: Water

Analysis Batch: 610847

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 609628

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	20.0	17.9		ug/L		89	47 - 120	3	20
2-Methylnaphthalene	20.0	17.7		ug/L		89	43 - 120	5	20
Acenaphthene	20.0	22.4		ug/L		112	60 - 132	9	29
Acenaphthylene	20.0	22.8		ug/L		114	54 - 126	10	45
Anthracene	20.0	22.0		ug/L		110	43 - 120	8	40
Benzo[a]anthracene	20.0	21.8		ug/L		109	42 - 133	8	32
Benzo[a]pyrene	20.0	23.0		ug/L		115	32 - 148	36	43
Benzo[b]fluoranthene	20.0	22.0		ug/L		110	42 - 140	20	43
Benzo[g,h,i]perylene	20.0	23.4		ug/L		117	1 - 195	18	61
Benzo[k]fluoranthene	20.0	22.8		ug/L		114	25 - 146	25	38
Chrysene	20.0	22.4		ug/L		112	44 - 140	9	53
Dibenz(a,h)anthracene	20.0	23.4		ug/L		117	1 - 200	16	75
Fluoranthene	20.0	21.8		ug/L		109	43 - 121	4	40
Fluorene	20.0	22.4		ug/L		112	70 - 120	9	23
Indeno[1,2,3-cd]pyrene	20.0	22.2		ug/L		111	1 - 151	19	60
Naphthalene	20.0	18.1		ug/L		90	36 - 120	6	39

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-164489-1
SDG: Weekly: Ka'amilo Wells Pump1/Pump 2

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

Lab Sample ID: LCSD 570-609628/3-A

Matrix: Water

Analysis Batch: 610847

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 609628

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenanthrene	20.0	22.3		ug/L		112	65 - 120	8	24
Pyrene	20.0	23.0		ug/L		115	70 - 120	13	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	90		28 - 127
2-Fluorobiphenyl (Surr)	97		31 - 120
2-Fluorophenol (Surr)	29		17 - 120
Nitrobenzene-d5 (Surr)	81		27 - 120
Phenol-d6 (Surr)	36		10 - 120
p-Terphenyl-d14 (Surr)	92		45 - 120

Lab Sample ID: 380-164502-A-1-B MS

Matrix: Water

Analysis Batch: 610847

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 609628

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.19		19.1	15.6		ug/L		82	36 - 120
2-Methylnaphthalene	<0.19		19.1	15.9		ug/L		83	32 - 124
Acenaphthene	<0.19		19.1	19.7		ug/L		103	47 - 145
Acenaphthylene	<0.19		19.1	19.8		ug/L		104	33 - 145
Anthracene	<0.19		19.1	19.6		ug/L		103	27 - 133
Benzo[a]anthracene	<0.19		19.1	19.4		ug/L		101	33 - 143
Benzo[a]pyrene	<0.19		19.1	20.6		ug/L		107	17 - 163
Benzo[b]fluoranthene	<0.19		19.1	19.7		ug/L		103	24 - 159
Benzo[g,h,i]perylene	<0.19		19.1	13.6		ug/L		71	1 - 219
Benzo[k]fluoranthene	<0.19		19.1	20.1		ug/L		105	11 - 162
Chrysene	<0.19		19.1	19.9		ug/L		104	17 - 168
Dibenz(a,h)anthracene	<0.19		19.1	16.3		ug/L		85	1 - 227
Fluoranthene	<0.19		19.1	20.0		ug/L		104	26 - 137
Fluorene	<0.19		19.1	19.6		ug/L		102	59 - 121
Indeno[1,2,3-cd]pyrene	<0.19		19.1	15.7		ug/L		82	1 - 171
Naphthalene	<0.19		19.1	16.4		ug/L		86	21 - 133
Phenanthrene	<0.19		19.1	20.1		ug/L		105	54 - 120
Pyrene	<0.19	F1	19.1	20.7		ug/L		108	52 - 120

Surrogate	MS %Recovery	MS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	84		28 - 127
2-Fluorobiphenyl (Surr)	87		31 - 120
2-Fluorophenol (Surr)	44		17 - 120
Nitrobenzene-d5 (Surr)	74		27 - 120
Phenol-d6 (Surr)	29		10 - 120
p-Terphenyl-d14 (Surr)	86		45 - 120

QC Sample Results

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

Job ID: 380-164489-1
SDG: Weekly: Ka'amilo Wells Pump1/Pump 2

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

Lab Sample ID: 380-164502-A-1-C MSD

Matrix: Water

Analysis Batch: 610847

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 609628

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	<0.19		19.1	18.2		ug/L		95	36 - 120	15	30
2-Methylnaphthalene	<0.19		19.1	18.3		ug/L		96	32 - 124	14	30
Acenaphthene	<0.19		19.1	20.9		ug/L		109	47 - 145	6	48
Acenaphthylene	<0.19		19.1	21.1		ug/L		110	33 - 145	6	74
Anthracene	<0.19		19.1	20.6		ug/L		108	27 - 133	5	66
Benzo[a]anthracene	<0.19		19.1	20.6		ug/L		108	33 - 143	6	53
Benzo[a]pyrene	<0.19		19.1	23.1		ug/L		121	17 - 163	12	72
Benzo[b]fluoranthene	<0.19		19.1	22.7		ug/L		119	24 - 159	14	71
Benzo[g,h,i]perylene	<0.19		19.1	21.7		ug/L		113	1 - 219	46	97
Benzo[k]fluoranthene	<0.19		19.1	22.9		ug/L		120	11 - 162	13	63
Chrysene	<0.19		19.1	20.8		ug/L		109	17 - 168	4	87
Dibenz(a,h)anthracene	<0.19		19.1	21.4		ug/L		112	1 - 227	27	126
Fluoranthene	<0.19		19.1	20.5		ug/L		107	26 - 137	3	66
Fluorene	<0.19		19.1	21.5		ug/L		112	59 - 121	9	38
Indeno[1,2,3-cd]pyrene	<0.19		19.1	20.5		ug/L		107	1 - 171	27	99
Naphthalene	<0.19		19.1	17.6		ug/L		92	21 - 133	7	65
Phenanthrene	<0.19		19.1	20.9		ug/L		109	54 - 120	4	39
Pyrene	<0.19	F1	19.1	23.9	F1	ug/L		125	52 - 120	14	49

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	87		28 - 127
2-Fluorobiphenyl (Surr)	106		31 - 120
2-Fluorophenol (Surr)	46		17 - 120
Nitrobenzene-d5 (Surr)	85		27 - 120
Phenol-d6 (Surr)	31		10 - 120
p-Terphenyl-d14 (Surr)	100		45 - 120

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

Lab Sample ID: MB 570-612596/5

Matrix: Water

Analysis Batch: 612596

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			08/16/25 12:35	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		38 - 134		08/16/25 12:35	1

Lab Sample ID: LCS 570-612596/3

Matrix: Water

Analysis Batch: 612596

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	346		ug/L		86	78 - 120

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QC Sample Results

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

Job ID: 380-164489-1
SDG: Weekly: Ka'amilo Wells Pump1/Pump 2

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

Lab Sample ID: LCS 570-612596/3

Matrix: Water

Analysis Batch: 612596

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		38 - 134

Lab Sample ID: LCSD 570-612596/4

Matrix: Water

Analysis Batch: 612596

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

			Spike	LCSD	LCSD				%Rec		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (C4-C13)			400	330		ug/L		83	78 - 120	5	10

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	91		38 - 134

Lab Sample ID: MRL 570-612596/6

Matrix: Water

Analysis Batch: 612596

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

			Spike	MRL	MRL				%Rec		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (C4-C13)			10.0	<7.9		ug/L		75	50 - 150		

	MRL	MRL	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	83		38 - 134

Lab Sample ID: 380-164502-C-1 MS

Matrix: Water

Analysis Batch: 612596

Client Sample ID: Matrix Spike

Prep Type: Total/NA

	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (C4-C13)	<10		400	346		ug/L		86	68 - 122		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		38 - 134

Lab Sample ID: 380-164502-C-1 MSD

Matrix: Water

Analysis Batch: 612596

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (C4-C13)	<10		400	309		ug/L		77	68 - 122	11	18

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	91		38 - 134

QC Sample Results

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

Job ID: 380-164489-1
SDG: Weekly: Ka'amilo Wells Pump1/Pump 2

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

Lab Sample ID: MB 570-609844/1-A

Matrix: Water

Analysis Batch: 612481

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 609844

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<25		25	ug/L		08/11/25 11:43	08/16/25 05:38	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		08/11/25 11:43	08/16/25 05:38	1
C8-C18	<25		25	ug/L		08/11/25 11:43	08/16/25 05:38	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	109		60 - 130			08/11/25 11:43	08/16/25 05:38	1

Lab Sample ID: LCS 570-609844/2-A

Matrix: Water

Analysis Batch: 612481

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 609844

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
C10-C28	1600	1500		ug/L		94	56 - 127
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
n-Octacosane (Surr)	111		60 - 130				

Lab Sample ID: LCSD 570-609844/3-A

Matrix: Water

Analysis Batch: 612481

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 609844

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28	1600	1500		ug/L		94	56 - 127	0	23
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
n-Octacosane (Surr)	111		60 - 130						

Lab Sample ID: MRL 570-609844/4-A

Matrix: Water

Analysis Batch: 612481

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 609844

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
C10-C28	0.0200	0.0251		mg/L		125	50 - 150
Surrogate	MRL %Recovery	MRL Qualifier	Limits				
n-Octacosane (Surr)	113		60 - 130				

Lab Sample ID: 380-164502-B-1-A MS

Matrix: Water

Analysis Batch: 612481

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 609844

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
C10-C28	<25		1620	1580		ug/L		98	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
n-Octacosane (Surr)	117		60 - 130						

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-164489-1
SDG: Weekly: Ka'amilo Wells Pump1/Pump 2

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

Lab Sample ID: 380-164502-B-1-B MSD

Matrix: Water

Analysis Batch: 612481

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 609844

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28	<25		1630	1650		ug/L		101	70 - 130	4	20
Surrogate	%Recovery	MSD Qualifier	MSD Limits								
n-Octacosane (Surr)	121		60 - 130								

QC Association Summary

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

Job ID: 380-164489-1
SDG: Weekly: Ka'amilo Wells Pump1/Pump 2

GC/MS Semi VOA

Prep Batch: 167255

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-164489-1	Ka'amilo Wells Pump 1	Total/NA	Water	525.2	
380-164489-3	Ka'amilo Wells Pump 2	Total/NA	Water	525.2	
MB 380-167255/21-A	Method Blank	Total/NA	Water	525.2	
LCS 380-167255/23-A	Lab Control Sample	Total/NA	Water	525.2	
MRL 380-167255/22-A	Lab Control Sample	Total/NA	Water	525.2	
380-164489-3 MS	Ka'amilo Wells Pump 2	Total/NA	Water	525.2	
380-164489-1 DU	Ka'amilo Wells Pump 1	Total/NA	Water	525.2	

Analysis Batch: 167457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-164489-1	Ka'amilo Wells Pump 1	Total/NA	Water	525.2	167255
380-164489-3	Ka'amilo Wells Pump 2	Total/NA	Water	525.2	167255
MB 380-167255/21-A	Method Blank	Total/NA	Water	525.2	167255
LCS 380-167255/23-A	Lab Control Sample	Total/NA	Water	525.2	167255
MRL 380-167255/22-A	Lab Control Sample	Total/NA	Water	525.2	167255
380-164489-3 MS	Ka'amilo Wells Pump 2	Total/NA	Water	525.2	167255
380-164489-1 DU	Ka'amilo Wells Pump 1	Total/NA	Water	525.2	167255

Prep Batch: 609628

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-164489-1	Ka'amilo Wells Pump 1	Total/NA	Water	625.1	
380-164489-3	Ka'amilo Wells Pump 2	Total/NA	Water	625.1	
MB 570-609628/1-A	Method Blank	Total/NA	Water	625.1	
LCS 570-609628/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 570-609628/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	
380-164502-A-1-B MS	Matrix Spike	Total/NA	Water	625.1	
380-164502-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	625.1	

Analysis Batch: 610847

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-164489-1	Ka'amilo Wells Pump 1	Total/NA	Water	625.1 SIM	609628
MB 570-609628/1-A	Method Blank	Total/NA	Water	625.1 SIM	609628
LCS 570-609628/2-A	Lab Control Sample	Total/NA	Water	625.1 SIM	609628
LCSD 570-609628/3-A	Lab Control Sample Dup	Total/NA	Water	625.1 SIM	609628
380-164502-A-1-B MS	Matrix Spike	Total/NA	Water	625.1 SIM	609628
380-164502-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	625.1 SIM	609628

Analysis Batch: 611489

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-164489-1	Ka'amilo Wells Pump 1	Total/NA	Water	625.1	609628
380-164489-3	Ka'amilo Wells Pump 2	Total/NA	Water	625.1	609628
MB 570-609628/1-A	Method Blank	Total/NA	Water	625.1	609628

Analysis Batch: 611998

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-164489-3	Ka'amilo Wells Pump 2	Total/NA	Water	625.1 SIM	609628

QC Association Summary

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

Job ID: 380-164489-1
SDG: Weekly: Ka'amilo Wells Pump1/Pump 2

GC VOA

Analysis Batch: 612596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-164489-1	Ka'amilo Wells Pump 1	Total/NA	Water	8015B GRO LL	
380-164489-2	TB: Ka'amilo Wells Pump 1	Total/NA	Water	8015B GRO LL	
380-164489-3	Ka'amilo Wells Pump 2	Total/NA	Water	8015B GRO LL	
380-164489-4	TB: Ka'amilo Wells Pump 2	Total/NA	Water	8015B GRO LL	
MB 570-612596/5	Method Blank	Total/NA	Water	8015B GRO LL	
LCS 570-612596/3	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-612596/4	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	
MRL 570-612596/6	Lab Control Sample	Total/NA	Water	8015B GRO LL	
380-164502-C-1 MS	Matrix Spike	Total/NA	Water	8015B GRO LL	
380-164502-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8015B GRO LL	

GC Semi VOA

Prep Batch: 609844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-164489-1	Ka'amilo Wells Pump 1	Total/NA	Water	3510C	
380-164489-3	Ka'amilo Wells Pump 2	Total/NA	Water	3510C	
MB 570-609844/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-609844/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-609844/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-609844/4-A	Lab Control Sample	Total/NA	Water	3510C	
380-164502-B-1-A MS	Matrix Spike	Total/NA	Water	3510C	
380-164502-B-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

Analysis Batch: 612481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-164489-1	Ka'amilo Wells Pump 1	Total/NA	Water	8015B	609844
380-164489-3	Ka'amilo Wells Pump 2	Total/NA	Water	8015B	609844
MB 570-609844/1-A	Method Blank	Total/NA	Water	8015B	609844
LCS 570-609844/2-A	Lab Control Sample	Total/NA	Water	8015B	609844
LCSD 570-609844/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	609844
MRL 570-609844/4-A	Lab Control Sample	Total/NA	Water	8015B	609844
380-164502-B-1-A MS	Matrix Spike	Total/NA	Water	8015B	609844
380-164502-B-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	8015B	609844

Lab Chronicle

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

Job ID: 380-164489-1
SDG: Weekly: Ka'amilo Wells Pump1/Pump 2

Client Sample ID: Ka'amilo Wells Pump 1

Lab Sample ID: 380-164489-1

Date Collected: 08/04/25 11:58

Matrix: Water

Date Received: 08/06/25 09:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			167255	KRD3	EA POM	08/07/25 09:12
Total/NA	Analysis	525.2		1	167457	Q8LA	EA POM	08/08/25 10:43
Total/NA	Prep	625.1			609628	H1SH	EET CAL 4	08/11/25 05:56
Total/NA	Analysis	625.1		1	611489	J7WE	EET CAL 4	08/14/25 12:07
Total/NA	Prep	625.1			609628	H1SH	EET CAL 4	08/11/25 05:56
Total/NA	Analysis	625.1 SIM		1	610847	PQS1	EET CAL 4	08/13/25 12:37
Total/NA	Analysis	8015B GRO LL		1	612596	W4LC	EET CAL 4	08/16/25 15:26
Total/NA	Prep	3510C			609844	TVD6	EET CAL 4	08/11/25 11:43
Total/NA	Analysis	8015B		1	612481	H6FE	EET CAL 4	08/16/25 08:08

Client Sample ID: TB: Ka'amilo Wells Pump 1

Lab Sample ID: 380-164489-2

Date Collected: 08/04/25 11:58

Matrix: Water

Date Received: 08/06/25 09:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	612596	W4LC	EET CAL 4	08/16/25 20:19

Client Sample ID: Ka'amilo Wells Pump 2

Lab Sample ID: 380-164489-3

Date Collected: 08/04/25 12:36

Matrix: Water

Date Received: 08/06/25 09:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			167255	KRD3	EA POM	08/07/25 09:12
Total/NA	Analysis	525.2		1	167457	Q8LA	EA POM	08/08/25 10:22
Total/NA	Prep	625.1			609628	H1SH	EET CAL 4	08/11/25 05:56
Total/NA	Analysis	625.1		1	611489	J7WE	EET CAL 4	08/14/25 12:30
Total/NA	Prep	625.1			609628	H1SH	EET CAL 4	08/11/25 05:56
Total/NA	Analysis	625.1 SIM		1	611998	PQS1	EET CAL 4	08/15/25 14:20
Total/NA	Analysis	8015B GRO LL		1	612596	W4LC	EET CAL 4	08/16/25 15:50
Total/NA	Prep	3510C			609844	TVD6	EET CAL 4	08/11/25 11:43
Total/NA	Analysis	8015B		1	612481	H6FE	EET CAL 4	08/16/25 08:29

Client Sample ID: TB: Ka'amilo Wells Pump 2

Lab Sample ID: 380-164489-4

Date Collected: 08/04/25 12:36

Matrix: Water

Date Received: 08/06/25 09:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	612596	W4LC	EET CAL 4	08/16/25 20:44

Laboratory References:

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

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

Eurofins Eaton Analytical Pomona

Accreditation/Certification Summary

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

Job ID: 380-164489-1
SDG: Weekly: Ka'amilo Wells Pump1/Pump 2

Laboratory: Eurofins Eaton Analytical Pomona

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

Authority	Program	Identification Number	Expiration Date
Hawaii	State	CA00006	01-31-26
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
525.2	525.2	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	11-16-25
California	Los Angeles County Sanitation Districts	9257304	07-31-26
California	SCAQMD LAP	17LA0919	11-30-25

Eurofins Eaton Analytical Pomona

Accreditation/Certification Summary

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

Job ID: 380-164489-1
SDG: Weekly: Ka'amilo Wells Pump1/Pump 2

Laboratory: Eurofins Calscience (Continued)

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

Authority	Program	Identification Number	Expiration Date
California	State	3082	07-31-26
Kansas	NELAP	E-10420	07-31-26
Nevada	State	CA00111	07-31-26
Oregon	NELAP	4175	02-02-26
USDA	US Federal Programs	525-23-159-97150	06-08-26
Utah	NELAP	CA00111	02-28-26
Washington	State	C916	10-11-25

Method Summary

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

Job ID: 380-164489-1
SDG: Weekly: Ka'amilo Wells Pump1/Pump 2

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

Protocol References:

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

EPA = US Environmental Protection Agency

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

Laboratory References:

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

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

Sample Summary

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

Job ID: 380-164489-1
SDG: Weekly: Ka'amilo Wells Pump1/Pump 2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
380-164489-1	Ka'amilo Wells Pump 1	Water	08/04/25 11:58	08/06/25 09:34	Hawaii
380-164489-2	TB: Ka'amilo Wells Pump 1	Water	08/04/25 11:58	08/06/25 09:34	Hawaii
380-164489-3	Ka'amilo Wells Pump 2	Water	08/04/25 12:36	08/06/25 09:34	Hawaii
380-164489-4	TB: Ka'amilo Wells Pump 2	Water	08/04/25 12:36	08/06/25 09:34	Hawaii

Chain of Custody Record



Environment Testing

Client Information		Sampler bailey		Lab PW: Arada, Rachelle		Carrier Tracking No(s): 380-28005-2757 1		COC No: 380-28005-2757 1	
Client Contact Mr Kirk Iwamoto		Phone: +1 808 748 5840		E-Mail: Rachelle.Arada@et.eurofins.com		State of Origin:		Page: Page 1 of 1	
Company City & County of Honolulu		PWSID:		Analysis Requested		Job #:		Other:	
Address: 630 South Beretania Street Chemistry Lab		Due Date Requested:		TAT Requested (days):		Preservation Codes: R - NaThioSO4 RA - NaThioHCl Q - Na2SO3 QA - Na2SO3HCl Y - Trizma I - NH4 Acetate		Total Number of containers	
City: Honolulu		State, Zip: HI, 96843		Compliance Project: ☐ Yes ☒ No		Field Filtered Sample (Yes or No)		Special Instructions/Note:	
Phone: 808-748-5840 (Tel)		PO #: C20525101 exp 05312023		WO #:		Perform MS/MSD (Yes or No)		Other:	
Email: kiwamoto@hbws.org		Project #: 38001111		SSOW#:		625.1, 625.1, 9IM		Special Instructions/Note:	
Project Name: RED-HILL/HBWS Sites		Event Desc: RUSH Weekly Red Hill		Sample Date		Sample Time		Sample Type (C=comp, G=grab)	
Site: Hawaii		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=other, L=liquid)	
Sample Identification		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=other, L=liquid)	
Ka'amilo Wells Pump 1		4-Aug-2025		1158		G		Water	
Ka'amilo Wells Pump 1 (Matrix Spike)								Water	
Ka'amilo Wells Pump 1 (Matrix Spike Duplicate)								Water	
TB: Ka'amilo Wells Pump 1		4-Aug-2025		1158				Water	
Ka'amilo Wells Pump 2		4-Aug-2025		1230		G		Water	
Ka'amilo Wells Pump 2 (Matrix Spike)								Water	
Ka'amilo Wells Pump 2 (Matrix Spike Duplicate)								Water	
TB: Ka'amilo Wells Pump 2		4-Aug-2025		1230				Water	
Possible Hazard Identification		☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		☐ Return To Client ☐ Disposal By Lab ☐ Archive For		Months	
Deliverable Requested: I, II, III, IV, Other (specify)		Empty Kit Relinquished by		Date:		Special Instructions/QC Requirements:		FED 610 8833 3974 5836	
Received by:		Date:		Time:		Method of Shipment:		8833 3974 5847	
Company:		Date:		Time:		Received by:		Company:	
Company:		Date:		Time:		Received by:		Company:	
Company:		Date:		Time:		Received by:		Company:	
Custody Seal No.:		Custody Seal No.:		Custody Seal No.:		Custody Seal No.:		Custody Seal No.:	
Custody Seal No.:		Custody Seal No.:		Custody Seal No.:		Custody Seal No.:		Custody Seal No.:	

[illegible]

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-164489-1

SDG Number: Weekly: Ka'amilo Wells Pump1/Pump 2

Login Number: 164489

List Number: 1

Creator: Ngo, Theodore

List Source: Eurofins Eaton Analytical 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: 380-164489-1

SDG Number: Weekly: Ka'amilo Wells Pump1/Pump 2

Login Number: 164489

List Source: Eurofins Calscience

List Number: 2

List Creation: 08/07/25 01:55 PM

Creator: Skinner, Alma D

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	2.2
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 $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	