

ANALYTICAL REPORT

PREPARED FOR

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JOB DESCRIPTION

RED-HILL
Weekly: Ka'amilo Wells Pump/Pump 2

JOB NUMBER

380-168211-1

Eurofins Eaton Analytical Pomona

Job Notes

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The test results in this report relate only to the samples as received by the laboratory and meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins 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: 380-168211-1
SDG: Weekly: Ka'amilo Wells Pump/Pump 2

Qualifiers

GC/MS Semi VOA

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

GC/MS Semi VOA TICs

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

GC VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

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

Job ID: 380-168211-1

Job ID: 380-168211-1

Eurofins Eaton Analytical Pomona

Job Narrative 380-168211-1

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 8/27/2025 10:04 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.3°C and 2.0°C.

GC/MS Semi VOA

Method 625.1_SIM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 570-617934 and analytical batch 570-619556 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

625.1_SIM for Ka'amilo Wells Pump 1 (380-168211-1) collected on 08/25/25 is a resample for Ka'amilo Wells Pump 1 (380-167047-1) collected on 08/25/25.

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

Gasoline Range Organics

8015B_GRO_LL for Ka'amilo Wells Pump 1 (380-168211-1), TB: Ka'amilo Wells Pump 1 (380-168211-2), Ka'amilo Wells Pump 2 (380-168211-3) and TB: Ka'amilo Wells Pump 2 (380-168211-4) collected on 08/25/25 are a resample Ka'amilo Wells Pump 1 (380-167047-1), TB: Ka'amilo Wells Pump 1 (380-167047-2), Ka'amilo Wells Pump 2 (380-167047-3), TB: Ka'amilo Wells Pump 2 (380-167047-4) collected on 08/18/25. (XWB4)
Ka'amilo Wells Pump 1 (380-168211-1), TB: Ka'amilo Wells Pump 1 (380-168211-2), Ka'amilo Wells Pump 2 (380-168211-3) and TB: Ka'amilo Wells Pump 2 (380-168211-4)

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: 380-168211-1
SDG: Weekly: Ka'amilo Wells Pump/Pump 2

Client Sample ID: Ka'amilo Wells Pump 1

Lab Sample ID: 380-168211-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Dieldrin	0.067		0.0098	ug/L	1		525.2	Total/NA
Heptachlor epoxide (isomer B)	0.012		0.0098	ug/L	1		525.2	Total/NA

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

Lab Sample ID: 380-168211-2

No Detections.

Client Sample ID: Ka'amilo Wells Pump 2

Lab Sample ID: 380-168211-3

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Dieldrin	0.074		0.0097	ug/L	1		525.2	Total/NA
Heptachlor epoxide (isomer B)	0.011		0.0097	ug/L	1		525.2	Total/NA

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

Lab Sample ID: 380-168211-4

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: 380-168211-1
SDG: Weekly: Ka'amilo Wells Pump/Pump 2

Client Sample ID: Ka'amilo Wells Pump 1

Lab Sample ID: 380-168211-1

Date Collected: 08/25/25 12:40

Matrix: Water

Date Received: 08/27/25 10:04

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.098		0.098	ug/L		08/27/25 14:18	09/01/25 13:16	1
2,4'-DDD	<0.098		0.098	ug/L		08/27/25 14:18	09/01/25 13:16	1
2,4'-DDE	<0.098		0.098	ug/L		08/27/25 14:18	09/01/25 13:16	1
2,4'-DDT	<0.098		0.098	ug/L		08/27/25 14:18	09/01/25 13:16	1
2,4-Dinitrotoluene	<0.098		0.098	ug/L		08/27/25 14:18	09/01/25 13:16	1
2,6-Dinitrotoluene	<0.098		0.098	ug/L		08/27/25 14:18	09/01/25 13:16	1
2-Methylnaphthalene	<0.098		0.098	ug/L		08/27/25 14:18	09/01/25 13:16	1
4,4'-DDD	<0.098		0.098	ug/L		08/27/25 14:18	09/01/25 13:16	1
4,4'-DDE	<0.098		0.098	ug/L		08/27/25 14:18	09/01/25 13:16	1
4,4'-DDT	<0.098	^3+	0.098	ug/L		08/27/25 14:18	09/01/25 13:16	1
Acenaphthene	<0.098		0.098	ug/L		08/27/25 14:18	09/01/25 13:16	1
Acenaphthylene	<0.098		0.098	ug/L		08/27/25 14:18	09/01/25 13:16	1
Acetochlor	<0.098		0.098	ug/L		08/27/25 14:18	09/01/25 13:16	1
Alachlor	<0.049		0.049	ug/L		08/27/25 14:18	09/01/25 13:16	1
alpha-BHC	<0.098		0.098	ug/L		08/27/25 14:18	09/01/25 13:16	1
alpha-Chlordane	<0.049		0.049	ug/L		08/27/25 14:18	09/01/25 13:16	1
Anthracene	<0.020		0.020	ug/L		08/27/25 14:18	09/01/25 13:16	1
Atrazine	<0.049		0.049	ug/L		08/27/25 14:18	09/01/25 13:16	1
Benz(a)anthracene	<0.049		0.049	ug/L		08/27/25 14:18	09/01/25 13:16	1
Benzo[a]pyrene	<0.020		0.020	ug/L		08/27/25 14:18	09/01/25 13:16	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		08/27/25 14:18	09/01/25 13:16	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		08/27/25 14:18	09/01/25 13:16	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		08/27/25 14:18	09/01/25 13:16	1
beta-BHC	<0.098		0.098	ug/L		08/27/25 14:18	09/01/25 13:16	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		08/27/25 14:18	09/01/25 13:16	1
Bromacil	<0.098		0.098	ug/L		08/27/25 14:18	09/01/25 13:16	1
Butachlor	<0.049		0.049	ug/L		08/27/25 14:18	09/01/25 13:16	1
Butylbenzylphthalate	<0.49		0.49	ug/L		08/27/25 14:18	09/01/25 13:16	1
Chlorobenzilate	<0.098		0.098	ug/L		08/27/25 14:18	09/01/25 13:16	1
Chloroneb	<0.098		0.098	ug/L		08/27/25 14:18	09/01/25 13:16	1
Chlorothalonil (Draconil, Bravo)	<0.098		0.098	ug/L		08/27/25 14:18	09/01/25 13:16	1
Chlorpyrifos	<0.049		0.049	ug/L		08/27/25 14:18	09/01/25 13:16	1
Chrysene	<0.020		0.020	ug/L		08/27/25 14:18	09/01/25 13:16	1
delta-BHC	<0.098		0.098	ug/L		08/27/25 14:18	09/01/25 13:16	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		08/27/25 14:18	09/01/25 13:16	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		08/27/25 14:18	09/01/25 13:16	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		08/27/25 14:18	09/01/25 13:16	1
Dieldrin	0.067		0.0098	ug/L		08/27/25 14:18	09/01/25 13:16	1
Diethylphthalate	<0.49		0.49	ug/L		08/27/25 14:18	09/01/25 13:16	1
Dimethylphthalate	<0.49		0.49	ug/L		08/27/25 14:18	09/01/25 13:16	1
Di-n-butyl phthalate	<0.98		0.98	ug/L		08/27/25 14:18	09/01/25 13:16	1
Di-n-octyl phthalate	<0.098		0.098	ug/L		08/27/25 14:18	09/01/25 13:16	1
Endosulfan I (Alpha)	<0.098		0.098	ug/L		08/27/25 14:18	09/01/25 13:16	1
Endosulfan II (Beta)	<0.098		0.098	ug/L		08/27/25 14:18	09/01/25 13:16	1
Endosulfan sulfate	<0.098		0.098	ug/L		08/27/25 14:18	09/01/25 13:16	1
Endrin	<0.0098		0.0098	ug/L		08/27/25 14:18	09/01/25 13:16	1
Endrin aldehyde	<0.098		0.098	ug/L		08/27/25 14:18	09/01/25 13:16	1
EPTC	<0.098		0.098	ug/L		08/27/25 14:18	09/01/25 13:16	1
Fluoranthene	<0.098		0.098	ug/L		08/27/25 14:18	09/01/25 13:16	1

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Client Sample Results

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

Job ID: 380-168211-1
SDG: Weekly: Ka'amilo Wells Pump/Pump 2

Client Sample ID: Ka'amilo Wells Pump 1

Lab Sample ID: 380-168211-1

Date Collected: 08/25/25 12:40

Matrix: Water

Date Received: 08/27/25 10:04

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		08/27/25 14:18	09/01/25 13:16	1
gamma-Chlordane	<0.049		0.049	ug/L		08/27/25 14:18	09/01/25 13:16	1
Heptachlor	<0.0098		0.0098	ug/L		08/27/25 14:18	09/01/25 13:16	1
Heptachlor epoxide (isomer B)	0.012		0.0098	ug/L		08/27/25 14:18	09/01/25 13:16	1
Hexachlorobenzene	<0.049		0.049	ug/L		08/27/25 14:18	09/01/25 13:16	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		08/27/25 14:18	09/01/25 13:16	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		08/27/25 14:18	09/01/25 13:16	1
Isophorone	<0.098		0.098	ug/L		08/27/25 14:18	09/01/25 13:16	1
Lindane	<0.0098		0.0098	ug/L		08/27/25 14:18	09/01/25 13:16	1
Malathion	<0.098		0.098	ug/L		08/27/25 14:18	09/01/25 13:16	1
Methoxychlor	<0.049		0.049	ug/L		08/27/25 14:18	09/01/25 13:16	1
Metolachlor	<0.049		0.049	ug/L		08/27/25 14:18	09/01/25 13:16	1
Molinate	<0.098		0.098	ug/L		08/27/25 14:18	09/01/25 13:16	1
Naphthalene	<0.098		0.098	ug/L		08/27/25 14:18	09/01/25 13:16	1
Parathion	<0.098		0.098	ug/L		08/27/25 14:18	09/01/25 13:16	1
Pendimethalin (Penoxaline)	<0.098		0.098	ug/L		08/27/25 14:18	09/01/25 13:16	1
Phenanthrene	<0.039		0.039	ug/L		08/27/25 14:18	09/01/25 13:16	1
Propachlor	<0.049		0.049	ug/L		08/27/25 14:18	09/01/25 13:16	1
Pyrene	<0.049		0.049	ug/L		08/27/25 14:18	09/01/25 13:16	1
Simazine	<0.049		0.049	ug/L		08/27/25 14:18	09/01/25 13:16	1
Terbacil	<0.098		0.098	ug/L		08/27/25 14:18	09/01/25 13:16	1
Terbutylazine	<0.098		0.098	ug/L		08/27/25 14:18	09/01/25 13:16	1
Thiobencarb	<0.098		0.098	ug/L		08/27/25 14:18	09/01/25 13:16	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		08/27/25 14:18	09/01/25 13:16	1
trans-Nonachlor	<0.049		0.049	ug/L		08/27/25 14:18	09/01/25 13:16	1
Trifluralin	<0.098		0.098	ug/L		08/27/25 14:18	09/01/25 13:16	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	08/27/25 14:18	09/01/25 13:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	94		70 - 130	08/27/25 14:18	09/01/25 13:16	1
Perylene-d12	88		70 - 130	08/27/25 14:18	09/01/25 13:16	1
Triphenylphosphate	98		70 - 130	08/27/25 14:18	09/01/25 13:16	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		08/28/25 08:30	09/02/25 12:41	1
2-Methylnaphthalene	<0.19		0.19	ug/L		08/28/25 08:30	09/02/25 12:41	1
Acenaphthene	<0.19		0.19	ug/L		08/28/25 08:30	09/02/25 12:41	1
Acenaphthylene	<0.19		0.19	ug/L		08/28/25 08:30	09/02/25 12:41	1
Anthracene	<0.19		0.19	ug/L		08/28/25 08:30	09/02/25 12:41	1
Benzo[a]anthracene	<0.19		0.19	ug/L		08/28/25 08:30	09/02/25 12:41	1
Benzo[a]pyrene	<0.19		0.19	ug/L		08/28/25 08:30	09/02/25 12:41	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		08/28/25 08:30	09/02/25 12:41	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		08/28/25 08:30	09/02/25 12:41	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		08/28/25 08:30	09/02/25 12:41	1
Chrysene	<0.19		0.19	ug/L		08/28/25 08:30	09/02/25 12:41	1
Dibenz(a,h)anthracene	<0.19		0.19	ug/L		08/28/25 08:30	09/02/25 12:41	1
Fluoranthene	<0.19		0.19	ug/L		08/28/25 08:30	09/02/25 12:41	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-168211-1
SDG: Weekly: Ka'amilo Wells Pump/Pump 2

Client Sample ID: Ka'amilo Wells Pump 1

Lab Sample ID: 380-168211-1

Date Collected: 08/25/25 12:40

Matrix: Water

Date Received: 08/27/25 10:04

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		08/28/25 08:30	09/02/25 12:41	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		08/28/25 08:30	09/02/25 12:41	1
Naphthalene	<0.19		0.19	ug/L		08/28/25 08:30	09/02/25 12:41	1
Phenanthrene	<0.19		0.19	ug/L		08/28/25 08:30	09/02/25 12:41	1
Pyrene	<0.19		0.19	ug/L		08/28/25 08:30	09/02/25 12:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	81		28 - 127	08/28/25 08:30	09/02/25 12:41	1
2-Fluorobiphenyl (Surr)	83		31 - 120	08/28/25 08:30	09/02/25 12:41	1
2-Fluorophenol (Surr)	56		17 - 120	08/28/25 08:30	09/02/25 12:41	1
Nitrobenzene-d5 (Surr)	81		27 - 120	08/28/25 08:30	09/02/25 12:41	1
Phenol-d6 (Surr)	33		10 - 120	08/28/25 08:30	09/02/25 12:41	1
p-Terphenyl-d14 (Surr)	84		45 - 120	08/28/25 08:30	09/02/25 12:41	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
Cyclic octaatomic sulfur	11	T J N	ug/L		9.78	10544-50-0	08/28/25 08:30	09/10/25 14:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	78		33 - 139	08/28/25 08:30	09/10/25 14:06	1
2-Fluorobiphenyl (Surr)	87		33 - 126	08/28/25 08:30	09/10/25 14:06	1
2-Fluorophenol (Surr)	58		12 - 120	08/28/25 08:30	09/10/25 14:06	1
Nitrobenzene-d5 (Surr)	91		36 - 120	08/28/25 08:30	09/10/25 14:06	1
Phenol-d6 (Surr)	34		10 - 120	08/28/25 08:30	09/10/25 14:06	1
p-Terphenyl-d14 (Surr)	82		47 - 131	08/28/25 08:30	09/10/25 14:06	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			09/03/25 00:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	73		38 - 134		09/03/25 00:48	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<25		25	ug/L		08/29/25 09:41	09/07/25 08:22	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		08/29/25 09:41	09/07/25 08:22	1
C8-C18	<25		25	ug/L		08/29/25 09:41	09/07/25 08:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	102		60 - 130	08/29/25 09:41	09/07/25 08:22	1

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

Lab Sample ID: 380-168211-2

Date Collected: 08/25/25 12:40

Matrix: Water

Date Received: 08/27/25 10:04

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			09/02/25 23:36	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-168211-1
SDG: Weekly: Ka'amilo Wells Pump/Pump 2

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

Lab Sample ID: 380-168211-2

Date Collected: 08/25/25 12:40

Matrix: Water

Date Received: 08/27/25 10:04

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	72		38 - 134		09/02/25 23:36	1

Client Sample ID: Ka'amilo Wells Pump 2

Lab Sample ID: 380-168211-3

Date Collected: 08/25/25 13:41

Matrix: Water

Date Received: 08/27/25 10:04

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		08/27/25 14:18	09/01/25 13:36	1
2,4'-DDD	<0.097		0.097	ug/L		08/27/25 14:18	09/01/25 13:36	1
2,4'-DDE	<0.097		0.097	ug/L		08/27/25 14:18	09/01/25 13:36	1
2,4'-DDT	<0.097		0.097	ug/L		08/27/25 14:18	09/01/25 13:36	1
2,4-Dinitrotoluene	<0.097		0.097	ug/L		08/27/25 14:18	09/01/25 13:36	1
2,6-Dinitrotoluene	<0.097		0.097	ug/L		08/27/25 14:18	09/01/25 13:36	1
2-Methylnaphthalene	<0.097		0.097	ug/L		08/27/25 14:18	09/01/25 13:36	1
4,4'-DDD	<0.097		0.097	ug/L		08/27/25 14:18	09/01/25 13:36	1
4,4'-DDE	<0.097		0.097	ug/L		08/27/25 14:18	09/01/25 13:36	1
4,4'-DDT	<0.097	^3+	0.097	ug/L		08/27/25 14:18	09/01/25 13:36	1
Acenaphthene	<0.097		0.097	ug/L		08/27/25 14:18	09/01/25 13:36	1
Acenaphthylene	<0.097		0.097	ug/L		08/27/25 14:18	09/01/25 13:36	1
Acetochlor	<0.097		0.097	ug/L		08/27/25 14:18	09/01/25 13:36	1
Alachlor	<0.048		0.048	ug/L		08/27/25 14:18	09/01/25 13:36	1
alpha-BHC	<0.097		0.097	ug/L		08/27/25 14:18	09/01/25 13:36	1
alpha-Chlordane	<0.048		0.048	ug/L		08/27/25 14:18	09/01/25 13:36	1
Anthracene	<0.019		0.019	ug/L		08/27/25 14:18	09/01/25 13:36	1
Atrazine	<0.048		0.048	ug/L		08/27/25 14:18	09/01/25 13:36	1
Benz(a)anthracene	<0.048		0.048	ug/L		08/27/25 14:18	09/01/25 13:36	1
Benzo[a]pyrene	<0.019		0.019	ug/L		08/27/25 14:18	09/01/25 13:36	1
Benzo[b]fluoranthene	<0.019		0.019	ug/L		08/27/25 14:18	09/01/25 13:36	1
Benzo[g,h,i]perylene	<0.048		0.048	ug/L		08/27/25 14:18	09/01/25 13:36	1
Benzo[k]fluoranthene	<0.019		0.019	ug/L		08/27/25 14:18	09/01/25 13:36	1
beta-BHC	<0.097		0.097	ug/L		08/27/25 14:18	09/01/25 13:36	1
Bis(2-ethylhexyl) phthalate	<0.58		0.58	ug/L		08/27/25 14:18	09/01/25 13:36	1
Bromacil	<0.097		0.097	ug/L		08/27/25 14:18	09/01/25 13:36	1
Butachlor	<0.048		0.048	ug/L		08/27/25 14:18	09/01/25 13:36	1
Butylbenzylphthalate	<0.48		0.48	ug/L		08/27/25 14:18	09/01/25 13:36	1
Chlorobenzilate	<0.097		0.097	ug/L		08/27/25 14:18	09/01/25 13:36	1
Chloroneb	<0.097		0.097	ug/L		08/27/25 14:18	09/01/25 13:36	1
Chlorothalonil (Draconil, Bravo)	<0.097		0.097	ug/L		08/27/25 14:18	09/01/25 13:36	1
Chlorpyrifos	<0.048		0.048	ug/L		08/27/25 14:18	09/01/25 13:36	1
Chrysene	<0.019		0.019	ug/L		08/27/25 14:18	09/01/25 13:36	1
delta-BHC	<0.097		0.097	ug/L		08/27/25 14:18	09/01/25 13:36	1
Di(2-ethylhexyl)adipate	<0.58		0.58	ug/L		08/27/25 14:18	09/01/25 13:36	1
Dibenz(a,h)anthracene	<0.048		0.048	ug/L		08/27/25 14:18	09/01/25 13:36	1
Diclorvos (DDVP)	<0.048		0.048	ug/L		08/27/25 14:18	09/01/25 13:36	1
Dieldrin	0.074		0.0097	ug/L		08/27/25 14:18	09/01/25 13:36	1
Diethylphthalate	<0.48		0.48	ug/L		08/27/25 14:18	09/01/25 13:36	1
Dimethylphthalate	<0.48		0.48	ug/L		08/27/25 14:18	09/01/25 13:36	1
Di-n-butyl phthalate	<0.97		0.97	ug/L		08/27/25 14:18	09/01/25 13:36	1
Di-n-octyl phthalate	<0.097		0.097	ug/L		08/27/25 14:18	09/01/25 13:36	1

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Client Sample Results

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

Job ID: 380-168211-1
SDG: Weekly: Ka'amilo Wells Pump/Pump 2

Client Sample ID: Ka'amilo Wells Pump 2

Lab Sample ID: 380-168211-3

Date Collected: 08/25/25 13:41

Matrix: Water

Date Received: 08/27/25 10:04

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		08/27/25 14:18	09/01/25 13:36	1
Endosulfan II (Beta)	<0.097		0.097	ug/L		08/27/25 14:18	09/01/25 13:36	1
Endosulfan sulfate	<0.097		0.097	ug/L		08/27/25 14:18	09/01/25 13:36	1
Endrin	<0.0097		0.0097	ug/L		08/27/25 14:18	09/01/25 13:36	1
Endrin aldehyde	<0.097		0.097	ug/L		08/27/25 14:18	09/01/25 13:36	1
EPTC	<0.097		0.097	ug/L		08/27/25 14:18	09/01/25 13:36	1
Fluoranthene	<0.097		0.097	ug/L		08/27/25 14:18	09/01/25 13:36	1
Fluorene	<0.048		0.048	ug/L		08/27/25 14:18	09/01/25 13:36	1
gamma-Chlordane	<0.048		0.048	ug/L		08/27/25 14:18	09/01/25 13:36	1
Heptachlor	<0.0097		0.0097	ug/L		08/27/25 14:18	09/01/25 13:36	1
Heptachlor epoxide (isomer B)	0.011		0.0097	ug/L		08/27/25 14:18	09/01/25 13:36	1
Hexachlorobenzene	<0.048		0.048	ug/L		08/27/25 14:18	09/01/25 13:36	1
Hexachlorocyclopentadiene	<0.048		0.048	ug/L		08/27/25 14:18	09/01/25 13:36	1
Indeno[1,2,3-cd]pyrene	<0.048		0.048	ug/L		08/27/25 14:18	09/01/25 13:36	1
Isophorone	<0.097		0.097	ug/L		08/27/25 14:18	09/01/25 13:36	1
Lindane	<0.0097		0.0097	ug/L		08/27/25 14:18	09/01/25 13:36	1
Malathion	<0.097		0.097	ug/L		08/27/25 14:18	09/01/25 13:36	1
Methoxychlor	<0.048		0.048	ug/L		08/27/25 14:18	09/01/25 13:36	1
Metolachlor	<0.048		0.048	ug/L		08/27/25 14:18	09/01/25 13:36	1
Molinate	<0.097		0.097	ug/L		08/27/25 14:18	09/01/25 13:36	1
Naphthalene	<0.097		0.097	ug/L		08/27/25 14:18	09/01/25 13:36	1
Parathion	<0.097		0.097	ug/L		08/27/25 14:18	09/01/25 13:36	1
Pendimethalin (Penoxaline)	<0.097		0.097	ug/L		08/27/25 14:18	09/01/25 13:36	1
Phenanthrene	<0.039		0.039	ug/L		08/27/25 14:18	09/01/25 13:36	1
Propachlor	<0.048		0.048	ug/L		08/27/25 14:18	09/01/25 13:36	1
Pyrene	<0.048		0.048	ug/L		08/27/25 14:18	09/01/25 13:36	1
Simazine	<0.048		0.048	ug/L		08/27/25 14:18	09/01/25 13:36	1
Terbacil	<0.097		0.097	ug/L		08/27/25 14:18	09/01/25 13:36	1
Terbutylazine	<0.097		0.097	ug/L		08/27/25 14:18	09/01/25 13:36	1
Thiobencarb	<0.097		0.097	ug/L		08/27/25 14:18	09/01/25 13:36	1
Total Permethrin (mixed isomers)	<0.19		0.19	ug/L		08/27/25 14:18	09/01/25 13:36	1
trans-Nonachlor	<0.048		0.048	ug/L		08/27/25 14:18	09/01/25 13:36	1
Trifluralin	<0.097		0.097	ug/L		08/27/25 14:18	09/01/25 13:36	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	08/27/25 14:18	09/01/25 13:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	93		70 - 130	08/27/25 14:18	09/01/25 13:36	1
Perylene-d12	85		70 - 130	08/27/25 14:18	09/01/25 13:36	1
Triphenylphosphate	101		70 - 130	08/27/25 14:18	09/01/25 13:36	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		08/28/25 08:30	08/30/25 23:52	1
2-Methylnaphthalene	<0.19		0.19	ug/L		08/28/25 08:30	08/30/25 23:52	1
Acenaphthene	<0.19		0.19	ug/L		08/28/25 08:30	08/30/25 23:52	1
Acenaphthylene	<0.19		0.19	ug/L		08/28/25 08:30	08/30/25 23:52	1
Anthracene	<0.19		0.19	ug/L		08/28/25 08:30	08/30/25 23:52	1
Benzo[a]anthracene	<0.19		0.19	ug/L		08/28/25 08:30	08/30/25 23:52	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-168211-1
SDG: Weekly: Ka'amilo Wells Pump/Pump 2

Client Sample ID: Ka'amilo Wells Pump 2

Lab Sample ID: 380-168211-3

Date Collected: 08/25/25 13:41

Matrix: Water

Date Received: 08/27/25 10:04

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		08/28/25 08:30	08/30/25 23:52	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		08/28/25 08:30	08/30/25 23:52	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		08/28/25 08:30	08/30/25 23:52	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		08/28/25 08:30	08/30/25 23:52	1
Chrysene	<0.19		0.19	ug/L		08/28/25 08:30	08/30/25 23:52	1
Dibenz(a,h)anthracene	<0.19		0.19	ug/L		08/28/25 08:30	08/30/25 23:52	1
Fluoranthene	<0.19		0.19	ug/L		08/28/25 08:30	08/30/25 23:52	1
Fluorene	<0.19		0.19	ug/L		08/28/25 08:30	08/30/25 23:52	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		08/28/25 08:30	08/30/25 23:52	1
Naphthalene	<0.19		0.19	ug/L		08/28/25 08:30	08/30/25 23:52	1
Phenanthrene	<0.19		0.19	ug/L		08/28/25 08:30	08/30/25 23:52	1
Pyrene	<0.19		0.19	ug/L		08/28/25 08:30	08/30/25 23:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	88		28 - 127	08/28/25 08:30	08/30/25 23:52	1
2-Fluorobiphenyl (Surr)	60		31 - 120	08/28/25 08:30	08/30/25 23:52	1
2-Fluorophenol (Surr)	43		17 - 120	08/28/25 08:30	08/30/25 23:52	1
Nitrobenzene-d5 (Surr)	62		27 - 120	08/28/25 08:30	08/30/25 23:52	1
Phenol-d6 (Surr)	27		10 - 120	08/28/25 08:30	08/30/25 23:52	1
p-Terphenyl-d14 (Surr)	75		45 - 120	08/28/25 08:30	08/30/25 23:52	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	08/28/25 08:30	09/10/25 14:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	74		33 - 139	08/28/25 08:30	09/10/25 14:28	1
2-Fluorobiphenyl (Surr)	70		33 - 126	08/28/25 08:30	09/10/25 14:28	1
2-Fluorophenol (Surr)	50		12 - 120	08/28/25 08:30	09/10/25 14:28	1
Nitrobenzene-d5 (Surr)	76		36 - 120	08/28/25 08:30	09/10/25 14:28	1
Phenol-d6 (Surr)	29		10 - 120	08/28/25 08:30	09/10/25 14:28	1
p-Terphenyl-d14 (Surr)	82		47 - 131	08/28/25 08:30	09/10/25 14:28	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			09/03/25 01:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		38 - 134		09/03/25 01:13	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<25		25	ug/L		08/29/25 09:41	09/07/25 08:43	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		08/29/25 09:41	09/07/25 08:43	1
C8-C18	<25		25	ug/L		08/29/25 09:41	09/07/25 08:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	114		60 - 130	08/29/25 09:41	09/07/25 08:43	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-168211-1
SDG: Weekly: Ka'amilo Wells Pump/Pump 2

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

Lab Sample ID: 380-168211-4

Date Collected: 08/25/25 13:41

Matrix: Water

Date Received: 08/27/25 10:04

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			09/03/25 00:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		38 - 134				09/03/25 00:00	1

Action Limit Summary

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

Job ID: 380-168211-1
SDG: Weekly: Ka'amilo Wells Pump/Pump 2

Client Sample ID: Ka'amilo Wells Pump 1

Lab Sample ID: 380-168211-1

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	<0.020		ug/L	0.2	0.020	525.2	Total/NA
Bis(2-ethylhexyl) phthalate	<0.59		ug/L	6	0.59	525.2	Total/NA
Di(2-ethylhexyl)adipate	<0.59		ug/L	400	0.59	525.2	Total/NA
Endrin	<0.0098		ug/L	2	0.0098	525.2	Total/NA
Heptachlor	<0.0098		ug/L	0.4	0.0098	525.2	Total/NA
Heptachlor epoxide (isomer B)	0.012		ug/L	0.2	0.0098	525.2	Total/NA
Hexachlorobenzene	<0.049		ug/L	1	0.049	525.2	Total/NA
Hexachlorocyclopentadiene	<0.049		ug/L	50	0.049	525.2	Total/NA
Lindane	<0.0098		ug/L	0.2	0.0098	525.2	Total/NA
Methoxychlor	<0.049		ug/L	40	0.049	525.2	Total/NA
Simazine	<0.049		ug/L	4	0.049	525.2	Total/NA
Benzo[a]pyrene	<0.19		ug/L	0.2	0.19	625.1 SIM	Total/NA

Client Sample ID: Ka'amilo Wells Pump 2

Lab Sample ID: 380-168211-3

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)	0.011		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: 380-168211-1
SDG: Weekly: Ka'amilo Wells Pump/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)
380-168205-I-1-A MS	Matrix Spike	94	95	102
380-168209-I-1-A DU	Duplicate	94	89	116
380-168211-1	Ka'amilo Wells Pump 1	94	88	98
380-168211-3	Ka'amilo Wells Pump 2	93	85	101
LCS 380-170954/21-A	Lab Control Sample	96	100	116
LCS 380-170954/21-A	Lab Control Sample	96	94	101
LCSD 380-170954/22-A	Lab Control Sample Dup	98	100	117
LCSD 380-170954/22-A	Lab Control Sample Dup	94	95	100
MB 380-170954/19-A	Method Blank	94	92	112
MB 380-170954/19-A	Method Blank	95	87	104
MRL 380-170954/20-A	Lab Control Sample	97	88	112

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)
380-168211-1	Ka'amilo Wells Pump 1	78	87	58	91	34	82
380-168211-3	Ka'amilo Wells Pump 2	74	70	50	76	29	82
MB 570-617934/1-A	Method Blank	78	79	52	87	31	79

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)
380-168000-A-1-A MS	Matrix Spike	88	75	51	64	32	72
380-168000-A-1-B MSD	Matrix Spike Duplicate	93	79	56	68	35	76
380-168205-A-1-A MS	Matrix Spike	82	75	59	66	39	84
380-168205-A-1-B MSD	Matrix Spike Duplicate	87	83	62	72	39	83
380-168211-1	Ka'amilo Wells Pump 1	81	83	56	81	33	84
380-168211-3	Ka'amilo Wells Pump 2	88	60	43	62	27	75
LCS 570-617934/2-A	Lab Control Sample	88	75	53	63	34	72
LCSD 570-617934/3-A	Lab Control Sample Dup	92	78	53	66	34	77
MB 570-617934/1-A	Method Blank	95	78	53	81	32	76

Surrogate Legend

Eurofins Eaton Analytical Pomona

Surrogate Summary

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

Job ID: 380-168211-1
SDG: Weekly: Ka'amilo Wells Pump/Pump 2

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

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (38-134)
380-168205-C-1 MS	Matrix Spike	90
380-168205-C-1 MSD	Matrix Spike Duplicate	87
380-168211-1	Ka'amilo Wells Pump 1	73
380-168211-2	TB: Ka'amilo Wells Pump 1	72
380-168211-3	Ka'amilo Wells Pump 2	82
380-168211-4	TB: Ka'amilo Wells Pump 2	77
LCS 570-619752/4	Lab Control Sample	87
LCSD 570-619752/5	Lab Control Sample Dup	88
MB 570-619752/6	Method Blank	77
MRL 570-619752/3	Lab Control Sample	80

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	OTCSN1 (60-130)
380-168000-C-1-A MS	Matrix Spike	99
380-168000-C-1-B MSD	Matrix Spike Duplicate	111
380-168211-1	Ka'amilo Wells Pump 1	102
380-168211-3	Ka'amilo Wells Pump 2	114
LCS 570-618766/2-A	Lab Control Sample	101
LCSD 570-618766/3-A	Lab Control Sample Dup	103
MB 570-618766/1-A	Method Blank	112
MRL 570-618766/4-A	Lab Control Sample	87

Surrogate Legend

OTCSN = n-Octacosane (Surr)

QC Sample Results

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

Job ID: 380-168211-1
SDG: Weekly: Ka'amilo Wells Pump/Pump 2

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

Lab Sample ID: MB 380-170954/19-A

Matrix: Water

Analysis Batch: 171145

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 170954

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.099		0.099	ug/L		08/27/25 14:18	08/28/25 14:57	1
2,4'-DDD	<0.099		0.099	ug/L		08/27/25 14:18	08/28/25 14:57	1
2,4'-DDE	<0.099		0.099	ug/L		08/27/25 14:18	08/28/25 14:57	1
2,4'-DDT	<0.099		0.099	ug/L		08/27/25 14:18	08/28/25 14:57	1
2,4-Dinitrotoluene	<0.099		0.099	ug/L		08/27/25 14:18	08/28/25 14:57	1
2,6-Dinitrotoluene	<0.099		0.099	ug/L		08/27/25 14:18	08/28/25 14:57	1
2-Methylnaphthalene	<0.099		0.099	ug/L		08/27/25 14:18	08/28/25 14:57	1
4,4'-DDD	<0.099		0.099	ug/L		08/27/25 14:18	08/28/25 14:57	1
4,4'-DDE	<0.099		0.099	ug/L		08/27/25 14:18	08/28/25 14:57	1
4,4'-DDT	<0.099	^3+	0.099	ug/L		08/27/25 14:18	08/28/25 14:57	1
Acenaphthene	<0.099		0.099	ug/L		08/27/25 14:18	08/28/25 14:57	1
Acenaphthylene	<0.099		0.099	ug/L		08/27/25 14:18	08/28/25 14:57	1
Acetochlor	<0.099		0.099	ug/L		08/27/25 14:18	08/28/25 14:57	1
Alachlor	<0.049		0.049	ug/L		08/27/25 14:18	08/28/25 14:57	1
alpha-BHC	<0.099		0.099	ug/L		08/27/25 14:18	08/28/25 14:57	1
alpha-Chlordane	<0.049		0.049	ug/L		08/27/25 14:18	08/28/25 14:57	1
Anthracene	<0.020		0.020	ug/L		08/27/25 14:18	08/28/25 14:57	1
Atrazine	<0.049		0.049	ug/L		08/27/25 14:18	08/28/25 14:57	1
Benz(a)anthracene	<0.049		0.049	ug/L		08/27/25 14:18	08/28/25 14:57	1
Benzo[a]pyrene	<0.020	^3+	0.020	ug/L		08/27/25 14:18	08/28/25 14:57	1
Benzo[b]fluoranthene	<0.020	^3+	0.020	ug/L		08/27/25 14:18	08/28/25 14:57	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		08/27/25 14:18	08/28/25 14:57	1
Benzo[k]fluoranthene	<0.020	^3+	0.020	ug/L		08/27/25 14:18	08/28/25 14:57	1
beta-BHC	<0.099		0.099	ug/L		08/27/25 14:18	08/28/25 14:57	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		08/27/25 14:18	08/28/25 14:57	1
Bromacil	<0.099	^3+	0.099	ug/L		08/27/25 14:18	08/28/25 14:57	1
Butachlor	<0.049		0.049	ug/L		08/27/25 14:18	08/28/25 14:57	1
Butylbenzylphthalate	<0.49	^3+	0.49	ug/L		08/27/25 14:18	08/28/25 14:57	1
Chlorobenzilate	<0.099		0.099	ug/L		08/27/25 14:18	08/28/25 14:57	1
Chloroneb	<0.099		0.099	ug/L		08/27/25 14:18	08/28/25 14:57	1
Chlorothalonil (Draconil, Bravo)	<0.099		0.099	ug/L		08/27/25 14:18	08/28/25 14:57	1
Chlorpyrifos	<0.049		0.049	ug/L		08/27/25 14:18	08/28/25 14:57	1
Chrysene	<0.020		0.020	ug/L		08/27/25 14:18	08/28/25 14:57	1
delta-BHC	<0.099		0.099	ug/L		08/27/25 14:18	08/28/25 14:57	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		08/27/25 14:18	08/28/25 14:57	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		08/27/25 14:18	08/28/25 14:57	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		08/27/25 14:18	08/28/25 14:57	1
Dieldrin	<0.0099	^3+	0.0099	ug/L		08/27/25 14:18	08/28/25 14:57	1
Diethylphthalate	<0.49		0.49	ug/L		08/27/25 14:18	08/28/25 14:57	1
Dimethylphthalate	<0.49		0.49	ug/L		08/27/25 14:18	08/28/25 14:57	1
Di-n-butyl phthalate	<0.99		0.99	ug/L		08/27/25 14:18	08/28/25 14:57	1
Di-n-octyl phthalate	<0.099		0.099	ug/L		08/27/25 14:18	08/28/25 14:57	1
Endosulfan I (Alpha)	<0.099		0.099	ug/L		08/27/25 14:18	08/28/25 14:57	1
Endosulfan II (Beta)	<0.099		0.099	ug/L		08/27/25 14:18	08/28/25 14:57	1
Endosulfan sulfate	<0.099	^3+	0.099	ug/L		08/27/25 14:18	08/28/25 14:57	1
Endrin	<0.0099		0.0099	ug/L		08/27/25 14:18	08/28/25 14:57	1
Endrin aldehyde	<0.099		0.099	ug/L		08/27/25 14:18	08/28/25 14:57	1
EPTC	<0.099		0.099	ug/L		08/27/25 14:18	08/28/25 14:57	1

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QC Sample Results

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

Job ID: 380-168211-1
SDG: Weekly: Ka'amilo Wells Pump/Pump 2

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

Lab Sample ID: MB 380-170954/19-A

Matrix: Water

Analysis Batch: 171145

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 170954

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.099		0.099	ug/L		08/27/25 14:18	08/28/25 14:57	1
Fluorene	<0.049		0.049	ug/L		08/27/25 14:18	08/28/25 14:57	1
gamma-Chlordane	<0.049		0.049	ug/L		08/27/25 14:18	08/28/25 14:57	1
Heptachlor	<0.0099		0.0099	ug/L		08/27/25 14:18	08/28/25 14:57	1
Heptachlor epoxide (isomer B)	<0.0099	^3+	0.0099	ug/L		08/27/25 14:18	08/28/25 14:57	1
Hexachlorobenzene	<0.049		0.049	ug/L		08/27/25 14:18	08/28/25 14:57	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		08/27/25 14:18	08/28/25 14:57	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		08/27/25 14:18	08/28/25 14:57	1
Isophorone	<0.099		0.099	ug/L		08/27/25 14:18	08/28/25 14:57	1
Lindane	<0.0099		0.0099	ug/L		08/27/25 14:18	08/28/25 14:57	1
Malathion	<0.099		0.099	ug/L		08/27/25 14:18	08/28/25 14:57	1
Methoxychlor	<0.049	^3+	0.049	ug/L		08/27/25 14:18	08/28/25 14:57	1
Metolachlor	<0.049		0.049	ug/L		08/27/25 14:18	08/28/25 14:57	1
Molinate	<0.099		0.099	ug/L		08/27/25 14:18	08/28/25 14:57	1
Naphthalene	<0.099		0.099	ug/L		08/27/25 14:18	08/28/25 14:57	1
Parathion	<0.099		0.099	ug/L		08/27/25 14:18	08/28/25 14:57	1
Pendimethalin (Penoxaline)	<0.099		0.099	ug/L		08/27/25 14:18	08/28/25 14:57	1
Phenanthrene	<0.039		0.039	ug/L		08/27/25 14:18	08/28/25 14:57	1
Propachlor	<0.049		0.049	ug/L		08/27/25 14:18	08/28/25 14:57	1
Pyrene	<0.049		0.049	ug/L		08/27/25 14:18	08/28/25 14:57	1
Simazine	<0.049		0.049	ug/L		08/27/25 14:18	08/28/25 14:57	1
Terbacil	<0.099		0.099	ug/L		08/27/25 14:18	08/28/25 14:57	1
Terbutylazine	<0.099		0.099	ug/L		08/27/25 14:18	08/28/25 14:57	1
Thiobencarb	<0.099		0.099	ug/L		08/27/25 14:18	08/28/25 14:57	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		08/27/25 14:18	08/28/25 14:57	1
trans-Nonachlor	<0.049		0.049	ug/L		08/27/25 14:18	08/28/25 14:57	1
Trifluralin	<0.099		0.099	ug/L		08/27/25 14:18	08/28/25 14:57	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Cyclopentene, 1,2,3,4,5-pentamethyl-	1.11	T J N	ug/L		2.55	1000154-28-6	08/27/25 14:18	08/28/25 14:57	1
Decane	2.31	T J N	ug/L		2.81	124-18-5	08/27/25 14:18	08/28/25 14:57	1
9-Octadecenamide, (Z)-	4.34	T J N	ug/L		7.96	301-02-0	08/27/25 14:18	08/28/25 14:57	1
9-Octadecenamide, (Z)-	1.09	T J N	ug/L		10.52	301-02-0	08/27/25 14:18	08/28/25 14:57	1
Unknown	0.737	T J	ug/L		15.68	N/A	08/27/25 14:18	08/28/25 14:57	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	94		70 - 130	08/27/25 14:18	08/28/25 14:57	1
Perylene-d12	92		70 - 130	08/27/25 14:18	08/28/25 14:57	1
Triphenylphosphate	112		70 - 130	08/27/25 14:18	08/28/25 14:57	1

Lab Sample ID: MB 380-170954/19-A

Matrix: Water

Analysis Batch: 171761

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 170954

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.099		0.099	ug/L		08/27/25 14:18	09/01/25 09:34	1
2,4'-DDD	<0.099		0.099	ug/L		08/27/25 14:18	09/01/25 09:34	1

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QC Sample Results

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

Job ID: 380-168211-1
SDG: Weekly: Ka'amilo Wells Pump/Pump 2

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

Lab Sample ID: MB 380-170954/19-A

Matrix: Water

Analysis Batch: 171761

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 170954

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDE	<0.099		0.099	ug/L		08/27/25 14:18	09/01/25 09:34	1
2,4'-DDT	<0.099		0.099	ug/L		08/27/25 14:18	09/01/25 09:34	1
2,4-Dinitrotoluene	<0.099		0.099	ug/L		08/27/25 14:18	09/01/25 09:34	1
2,6-Dinitrotoluene	<0.099		0.099	ug/L		08/27/25 14:18	09/01/25 09:34	1
2-Methylnaphthalene	<0.099		0.099	ug/L		08/27/25 14:18	09/01/25 09:34	1
4,4'-DDD	<0.099		0.099	ug/L		08/27/25 14:18	09/01/25 09:34	1
4,4'-DDE	<0.099		0.099	ug/L		08/27/25 14:18	09/01/25 09:34	1
4,4'-DDT	<0.099	^3+	0.099	ug/L		08/27/25 14:18	09/01/25 09:34	1
Acenaphthene	<0.099		0.099	ug/L		08/27/25 14:18	09/01/25 09:34	1
Acenaphthylene	<0.099		0.099	ug/L		08/27/25 14:18	09/01/25 09:34	1
Acetochlor	<0.099		0.099	ug/L		08/27/25 14:18	09/01/25 09:34	1
Alachlor	<0.049		0.049	ug/L		08/27/25 14:18	09/01/25 09:34	1
alpha-BHC	<0.099		0.099	ug/L		08/27/25 14:18	09/01/25 09:34	1
alpha-Chlordane	<0.049		0.049	ug/L		08/27/25 14:18	09/01/25 09:34	1
Anthracene	<0.020		0.020	ug/L		08/27/25 14:18	09/01/25 09:34	1
Atrazine	<0.049		0.049	ug/L		08/27/25 14:18	09/01/25 09:34	1
Benz(a)anthracene	<0.049		0.049	ug/L		08/27/25 14:18	09/01/25 09:34	1
Benzo[a]pyrene	<0.020		0.020	ug/L		08/27/25 14:18	09/01/25 09:34	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		08/27/25 14:18	09/01/25 09:34	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		08/27/25 14:18	09/01/25 09:34	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		08/27/25 14:18	09/01/25 09:34	1
beta-BHC	<0.099		0.099	ug/L		08/27/25 14:18	09/01/25 09:34	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		08/27/25 14:18	09/01/25 09:34	1
Bromacil	<0.099		0.099	ug/L		08/27/25 14:18	09/01/25 09:34	1
Butachlor	<0.049		0.049	ug/L		08/27/25 14:18	09/01/25 09:34	1
Butylbenzylphthalate	<0.49		0.49	ug/L		08/27/25 14:18	09/01/25 09:34	1
Chlorobenzilate	<0.099		0.099	ug/L		08/27/25 14:18	09/01/25 09:34	1
Chloroneb	<0.099		0.099	ug/L		08/27/25 14:18	09/01/25 09:34	1
Chlorothalonil (Draconil, Bravo)	<0.099		0.099	ug/L		08/27/25 14:18	09/01/25 09:34	1
Chlorpyrifos	<0.049		0.049	ug/L		08/27/25 14:18	09/01/25 09:34	1
Chrysene	<0.020		0.020	ug/L		08/27/25 14:18	09/01/25 09:34	1
delta-BHC	<0.099		0.099	ug/L		08/27/25 14:18	09/01/25 09:34	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		08/27/25 14:18	09/01/25 09:34	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		08/27/25 14:18	09/01/25 09:34	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		08/27/25 14:18	09/01/25 09:34	1
Dieldrin	<0.0099		0.0099	ug/L		08/27/25 14:18	09/01/25 09:34	1
Diethylphthalate	<0.49		0.49	ug/L		08/27/25 14:18	09/01/25 09:34	1
Dimethylphthalate	<0.49		0.49	ug/L		08/27/25 14:18	09/01/25 09:34	1
Di-n-butyl phthalate	<0.99		0.99	ug/L		08/27/25 14:18	09/01/25 09:34	1
Di-n-octyl phthalate	<0.099		0.099	ug/L		08/27/25 14:18	09/01/25 09:34	1
Endosulfan I (Alpha)	<0.099		0.099	ug/L		08/27/25 14:18	09/01/25 09:34	1
Endosulfan II (Beta)	<0.099		0.099	ug/L		08/27/25 14:18	09/01/25 09:34	1
Endosulfan sulfate	<0.099		0.099	ug/L		08/27/25 14:18	09/01/25 09:34	1
Endrin	<0.0099		0.0099	ug/L		08/27/25 14:18	09/01/25 09:34	1
Endrin aldehyde	<0.099		0.099	ug/L		08/27/25 14:18	09/01/25 09:34	1
EPTC	<0.099		0.099	ug/L		08/27/25 14:18	09/01/25 09:34	1
Fluoranthene	<0.099		0.099	ug/L		08/27/25 14:18	09/01/25 09:34	1
Fluorene	<0.049		0.049	ug/L		08/27/25 14:18	09/01/25 09:34	1
gamma-Chlordane	<0.049		0.049	ug/L		08/27/25 14:18	09/01/25 09:34	1

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-168211-1
SDG: Weekly: Ka'amilo Wells Pump/Pump 2

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

Lab Sample ID: MB 380-170954/19-A

Matrix: Water

Analysis Batch: 171761

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 170954

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	<0.0099		0.0099	ug/L		08/27/25 14:18	09/01/25 09:34	1
Heptachlor epoxide (isomer B)	<0.0099		0.0099	ug/L		08/27/25 14:18	09/01/25 09:34	1
Hexachlorobenzene	<0.049		0.049	ug/L		08/27/25 14:18	09/01/25 09:34	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		08/27/25 14:18	09/01/25 09:34	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		08/27/25 14:18	09/01/25 09:34	1
Isophorone	<0.099		0.099	ug/L		08/27/25 14:18	09/01/25 09:34	1
Lindane	<0.0099		0.0099	ug/L		08/27/25 14:18	09/01/25 09:34	1
Malathion	<0.099		0.099	ug/L		08/27/25 14:18	09/01/25 09:34	1
Methoxychlor	<0.049		0.049	ug/L		08/27/25 14:18	09/01/25 09:34	1
Metolachlor	<0.049		0.049	ug/L		08/27/25 14:18	09/01/25 09:34	1
Molinate	<0.099		0.099	ug/L		08/27/25 14:18	09/01/25 09:34	1
Naphthalene	<0.099		0.099	ug/L		08/27/25 14:18	09/01/25 09:34	1
Parathion	<0.099		0.099	ug/L		08/27/25 14:18	09/01/25 09:34	1
Pendimethalin (Penoxaline)	<0.099		0.099	ug/L		08/27/25 14:18	09/01/25 09:34	1
Phenanthrene	<0.039		0.039	ug/L		08/27/25 14:18	09/01/25 09:34	1
Propachlor	<0.049		0.049	ug/L		08/27/25 14:18	09/01/25 09:34	1
Pyrene	<0.049		0.049	ug/L		08/27/25 14:18	09/01/25 09:34	1
Simazine	<0.049		0.049	ug/L		08/27/25 14:18	09/01/25 09:34	1
Terbacil	<0.099		0.099	ug/L		08/27/25 14:18	09/01/25 09:34	1
Terbutylazine	<0.099		0.099	ug/L		08/27/25 14:18	09/01/25 09:34	1
Thiobencarb	<0.099		0.099	ug/L		08/27/25 14:18	09/01/25 09:34	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		08/27/25 14:18	09/01/25 09:34	1
trans-Nonachlor	<0.049		0.049	ug/L		08/27/25 14:18	09/01/25 09:34	1
Trifluralin	<0.099		0.099	ug/L		08/27/25 14:18	09/01/25 09:34	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Phenol, m-tert-butyl-	0.723	T J N	ug/L		3.82	585-34-2	08/27/25 14:18	09/01/25 09:34	1
Phenol, 4-(1,1-dimethylpropyl)-	0.516	T J N	ug/L		4.21	80-46-6	08/27/25 14:18	09/01/25 09:34	1
9-Octadecenamide, (Z)-	6.00	T J N	ug/L		7.81	301-02-0	08/27/25 14:18	09/01/25 09:34	1
13-Docosenamide, (Z)-	1.64	T J	ug/L		10.30	N/A	08/27/25 14:18	09/01/25 09:34	1
Unknown	1.06	T J	ug/L		15.33	N/A	08/27/25 14:18	09/01/25 09:34	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	95		70 - 130	08/27/25 14:18	09/01/25 09:34	1
Perylene-d12	87		70 - 130	08/27/25 14:18	09/01/25 09:34	1
Triphenylphosphate	104		70 - 130	08/27/25 14:18	09/01/25 09:34	1

Lab Sample ID: LCS 380-170954/21-A

Matrix: Water

Analysis Batch: 171145

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 170954

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	1.97	1.95		ug/L		99	70 - 130
2,4'-DDD	1.97	2.13		ug/L		108	70 - 130
2,4'-DDE	1.97	2.17		ug/L		110	70 - 130
2,4'-DDT	1.97	2.10		ug/L		106	70 - 130
2,4-Dinitrotoluene	1.97	1.80		ug/L		91	70 - 130
2,6-Dinitrotoluene	1.97	1.91		ug/L		97	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-168211-1
SDG: Weekly: Ka'amilo Wells Pump/Pump 2

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

Lab Sample ID: LCS 380-170954/21-A

Matrix: Water

Analysis Batch: 171145

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 170954

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Methylnaphthalene	1.97	1.97		ug/L		100	70 - 130
4,4'-DDD	1.97	2.11		ug/L		107	70 - 130
4,4'-DDE	1.97	2.18		ug/L		111	70 - 130
4,4'-DDT	1.97	2.16		ug/L		109	70 - 130
Acenaphthene	1.97	1.95		ug/L		99	70 - 130
Acenaphthylene	1.97	1.76		ug/L		89	70 - 130
Acetochlor	1.97	2.01		ug/L		102	70 - 130
Alachlor	1.97	2.18		ug/L		111	70 - 130
alpha-BHC	1.97	2.07		ug/L		105	70 - 130
alpha-Chlordane	1.97	2.15		ug/L		109	70 - 130
Anthracene	1.97	1.86		ug/L		95	70 - 130
Atrazine	1.97	2.13		ug/L		108	70 - 130
Benz(a)anthracene	1.97	2.07		ug/L		105	70 - 130
Benzo[a]pyrene	1.97	2.19		ug/L		111	70 - 130
Benzo[b]fluoranthene	1.97	2.14		ug/L		109	70 - 130
Benzo[g,h,i]perylene	1.97	2.18		ug/L		111	70 - 130
Benzo[k]fluoranthene	1.97	2.22		ug/L		113	70 - 130
beta-BHC	1.97	2.07		ug/L		105	70 - 130
Bis(2-ethylhexyl) phthalate	1.97	1.96		ug/L		100	70 - 130
Bromacil	1.97	2.04		ug/L		104	70 - 130
Butachlor	1.97	2.13		ug/L		108	70 - 130
Butylbenzylphthalate	1.97	2.46		ug/L		125	70 - 130
Chlorobenzilate	1.97	2.01		ug/L		102	70 - 130
Chloroneb	1.97	2.01		ug/L		102	70 - 130
Chlorothalonil (Draconil, Bravo)	1.97	2.05		ug/L		104	70 - 130
Chlorpyrifos	1.97	1.99		ug/L		101	70 - 130
Chrysene	1.97	2.10		ug/L		107	70 - 130
delta-BHC	1.97	2.01		ug/L		102	70 - 130
Di(2-ethylhexyl)adipate	1.97	2.27		ug/L		115	70 - 130
Dibenz(a,h)anthracene	1.97	2.16		ug/L		110	70 - 130
Diclorvos (DDVP)	1.97	2.00		ug/L		102	70 - 130
Dieldrin	1.97	2.16		ug/L		110	70 - 130
Diethylphthalate	1.97	2.04		ug/L		103	70 - 130
Dimethylphthalate	1.97	2.06		ug/L		104	70 - 130
Di-n-butyl phthalate	3.94	4.42		ug/L		112	70 - 130
Di-n-octyl phthalate	1.97	2.00		ug/L		101	70 - 130
Endosulfan I (Alpha)	1.97	1.96		ug/L		100	70 - 130
Endosulfan II (Beta)	1.97	2.06		ug/L		104	70 - 130
Endosulfan sulfate	1.97	2.13		ug/L		108	70 - 130
Endrin	1.97	2.35		ug/L		119	70 - 130
Endrin aldehyde	1.97	2.19		ug/L		111	60 - 130
EPTC	1.97	2.06		ug/L		105	70 - 130
Fluoranthene	1.97	2.12		ug/L		108	70 - 130
Fluorene	1.97	2.12		ug/L		107	70 - 130
gamma-Chlordane	1.97	2.19		ug/L		111	70 - 130
Heptachlor	1.97	2.27		ug/L		116	70 - 130
Heptachlor epoxide (isomer B)	1.97	2.20		ug/L		112	70 - 130
Hexachlorobenzene	1.97	2.08		ug/L		105	70 - 130
Hexachlorocyclopentadiene	1.97	2.01		ug/L		102	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-168211-1
SDG: Weekly: Ka'amilo Wells Pump/Pump 2

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

Lab Sample ID: LCS 380-170954/21-A

Matrix: Water

Analysis Batch: 171145

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 170954

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Indeno[1,2,3-cd]pyrene	1.97	2.28		ug/L		116	70 - 130
Isophorone	1.97	1.93		ug/L		98	70 - 130
Lindane	1.97	2.22		ug/L		113	70 - 130
Malathion	1.97	2.05		ug/L		104	70 - 130
Methoxychlor	1.97	2.02		ug/L		103	70 - 130
Metolachlor	1.97	2.07		ug/L		105	70 - 130
Molinate	1.97	2.16		ug/L		110	70 - 130
Naphthalene	1.97	1.86		ug/L		95	70 - 130
Parathion	1.97	2.02		ug/L		103	70 - 130
Pendimethalin (Penoxaline)	1.97	2.21		ug/L		112	70 - 130
Phenanthrene	1.97	2.03		ug/L		103	70 - 130
Propachlor	1.97	2.25		ug/L		114	70 - 130
Pyrene	1.97	2.06		ug/L		104	70 - 130
Simazine	1.97	2.15		ug/L		109	70 - 130
Terbacil	1.97	2.07		ug/L		105	70 - 130
Terbutylazine	1.97	2.15		ug/L		109	70 - 130
Thiobencarb	1.97	2.01		ug/L		102	70 - 130
trans-Nonachlor	1.97	2.25		ug/L		114	70 - 130
Trifluralin	1.97	2.03		ug/L		103	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Nitro-m-xylene	96		70 - 130
Perylene-d12	100		70 - 130
Triphenylphosphate	116		70 - 130

Lab Sample ID: LCS 380-170954/21-A

Matrix: Water

Analysis Batch: 171761

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 170954

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	1.97	1.99		ug/L		101	70 - 130
2,4'-DDD	1.97	2.13		ug/L		108	70 - 130
2,4'-DDE	1.97	2.11		ug/L		107	70 - 130
2,4'-DDT	1.97	2.02		ug/L		102	70 - 130
2,4-Dinitrotoluene	1.97	2.05		ug/L		104	70 - 130
2,6-Dinitrotoluene	1.97	1.89		ug/L		96	70 - 130
2-Methylnaphthalene	1.97	1.89		ug/L		96	70 - 130
4,4'-DDD	1.97	2.18		ug/L		111	70 - 130
4,4'-DDE	1.97	2.06		ug/L		105	70 - 130
4,4'-DDT	1.97	2.15		ug/L		109	70 - 130
Acenaphthene	1.97	1.93		ug/L		98	70 - 130
Acenaphthylene	1.97	1.81		ug/L		92	70 - 130
Acetochlor	1.97	2.26		ug/L		115	70 - 130
Alachlor	1.97	2.24		ug/L		114	70 - 130
alpha-BHC	1.97	2.07		ug/L		105	70 - 130
alpha-Chlordane	1.97	2.16		ug/L		110	70 - 130
Anthracene	1.97	1.93		ug/L		98	70 - 130
Atrazine	1.97	2.10		ug/L		106	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-168211-1
SDG: Weekly: Ka'amilo Wells Pump/Pump 2

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

Lab Sample ID: LCS 380-170954/21-A

Matrix: Water

Analysis Batch: 171761

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 170954

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benz(a)anthracene	1.97	1.97		ug/L		100	70 - 130
Benzo[a]pyrene	1.97	1.99		ug/L		101	70 - 130
Benzo[b]fluoranthene	1.97	2.02		ug/L		103	70 - 130
Benzo[g,h,i]perylene	1.97	2.02		ug/L		103	70 - 130
Benzo[k]fluoranthene	1.97	2.03		ug/L		103	70 - 130
beta-BHC	1.97	2.09		ug/L		106	70 - 130
Bis(2-ethylhexyl) phthalate	1.97	1.98		ug/L		101	70 - 130
Bromacil	1.97	2.06		ug/L		104	70 - 130
Butachlor	1.97	2.37		ug/L		121	70 - 130
Butylbenzylphthalate	1.97	2.23		ug/L		113	70 - 130
Chlorobenzilate	1.97	2.28		ug/L		116	70 - 130
Chloroneb	1.97	2.02		ug/L		102	70 - 130
Chlorothalonil (Draconil, Bravo)	1.97	1.94		ug/L		99	70 - 130
Chlorpyrifos	1.97	2.14		ug/L		109	70 - 130
Chrysene	1.97	2.08		ug/L		106	70 - 130
delta-BHC	1.97	2.01		ug/L		102	70 - 130
Di(2-ethylhexyl)adipate	1.97	2.18		ug/L		111	70 - 130
Dibenz(a,h)anthracene	1.97	1.96		ug/L		99	70 - 130
Diclorvos (DDVP)	1.97	2.08		ug/L		106	70 - 130
Dieldrin	1.97	2.03		ug/L		103	70 - 130
Diethylphthalate	1.97	2.26		ug/L		115	70 - 130
Dimethylphthalate	1.97	2.03		ug/L		103	70 - 130
Di-n-butyl phthalate	3.94	4.45		ug/L		113	70 - 130
Di-n-octyl phthalate	1.97	2.06		ug/L		105	70 - 130
Endosulfan I (Alpha)	1.97	1.89		ug/L		96	70 - 130
Endosulfan II (Beta)	1.97	2.06		ug/L		104	70 - 130
Endosulfan sulfate	1.97	2.07		ug/L		105	70 - 130
Endrin	1.97	2.19		ug/L		111	70 - 130
Endrin aldehyde	1.97	1.80		ug/L		92	60 - 130
EPTC	1.97	2.07		ug/L		105	70 - 130
Fluoranthene	1.97	2.14		ug/L		109	70 - 130
Fluorene	1.97	2.14		ug/L		109	70 - 130
gamma-Chlordane	1.97	2.21		ug/L		112	70 - 130
Heptachlor	1.97	2.21		ug/L		112	70 - 130
Heptachlor epoxide (isomer B)	1.97	2.13		ug/L		108	70 - 130
Hexachlorobenzene	1.97	2.06		ug/L		105	70 - 130
Hexachlorocyclopentadiene	1.97	1.98		ug/L		100	70 - 130
Indeno[1,2,3-cd]pyrene	1.97	1.95		ug/L		99	70 - 130
Isophorone	1.97	2.04		ug/L		103	70 - 130
Lindane	1.97	2.33		ug/L		119	70 - 130
Malathion	1.97	2.15		ug/L		109	70 - 130
Methoxychlor	1.97	2.25		ug/L		114	70 - 130
Metolachlor	1.97	2.27		ug/L		115	70 - 130
Molinate	1.97	2.23		ug/L		114	70 - 130
Naphthalene	1.97	1.84		ug/L		94	70 - 130
Parathion	1.97	2.31		ug/L		117	70 - 130
Pendimethalin (Penoxaline)	1.97	2.06		ug/L		105	70 - 130
Phenanthrene	1.97	1.95		ug/L		99	70 - 130
Propachlor	1.97	2.25		ug/L		115	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-168211-1
SDG: Weekly: Ka'amilo Wells Pump/Pump 2

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

Lab Sample ID: LCS 380-170954/21-A

Matrix: Water

Analysis Batch: 171761

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 170954

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Pyrene	1.97	2.21		ug/L		112	70 - 130
Simazine	1.97	2.23		ug/L		113	70 - 130
Terbacil	1.97	2.30		ug/L		117	70 - 130
Terbutylazine	1.97	2.29		ug/L		116	70 - 130
Thiobencarb	1.97	2.29		ug/L		116	70 - 130
trans-Nonachlor	1.97	2.20		ug/L		112	70 - 130
Trifluralin	1.97	2.15		ug/L		109	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Nitro-m-xylene	96		70 - 130
Perylene-d12	94		70 - 130
Triphenylphosphate	101		70 - 130

Lab Sample ID: LCSD 380-170954/22-A

Matrix: Water

Analysis Batch: 171145

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 170954

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	1.97	1.95		ug/L		99	70 - 130	0	20
2,4'-DDD	1.97	2.13		ug/L		109	70 - 130	0	20
2,4'-DDE	1.97	2.18		ug/L		111	70 - 130	1	20
2,4'-DDT	1.97	2.12		ug/L		108	70 - 130	1	20
2,4-Dinitrotoluene	1.97	1.84		ug/L		94	70 - 130	2	20
2,6-Dinitrotoluene	1.97	1.99		ug/L		101	70 - 130	4	20
2-Methylnaphthalene	1.97	1.99		ug/L		101	70 - 130	1	20
4,4'-DDD	1.97	2.12		ug/L		108	70 - 130	1	20
4,4'-DDE	1.97	2.20		ug/L		112	70 - 130	1	20
4,4'-DDT	1.97	2.17		ug/L		110	70 - 130	0	20
Acenaphthene	1.97	1.95		ug/L		99	70 - 130	0	20
Acenaphthylene	1.97	1.82		ug/L		92	70 - 130	3	20
Acetochlor	1.97	2.00		ug/L		102	70 - 130	0	20
Alachlor	1.97	2.21		ug/L		112	70 - 130	1	20
alpha-BHC	1.97	2.05		ug/L		104	70 - 130	1	20
alpha-Chlordane	1.97	2.14		ug/L		109	70 - 130	0	20
Anthracene	1.97	1.90		ug/L		97	70 - 130	2	20
Atrazine	1.97	2.22		ug/L		113	70 - 130	4	20
Benz(a)anthracene	1.97	2.06		ug/L		105	70 - 130	0	20
Benzo[a]pyrene	1.97	2.15		ug/L		109	70 - 130	2	20
Benzo[b]fluoranthene	1.97	2.07		ug/L		105	70 - 130	3	20
Benzo[g,h,i]perylene	1.97	2.08		ug/L		106	70 - 130	5	20
Benzo[k]fluoranthene	1.97	2.12		ug/L		108	70 - 130	5	20
beta-BHC	1.97	2.12		ug/L		108	70 - 130	3	20
Bis(2-ethylhexyl) phthalate	1.97	2.04		ug/L		104	70 - 130	4	20
Bromacil	1.97	2.15		ug/L		109	70 - 130	5	20
Butachlor	1.97	2.13		ug/L		108	70 - 130	0	20
Butylbenzylphthalate	1.97	2.48		ug/L		126	70 - 130	1	20
Chlorobenzilate	1.97	2.07		ug/L		105	70 - 130	3	20
Chloroneb	1.97	2.01		ug/L		102	70 - 130	0	20

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-168211-1
SDG: Weekly: Ka'amilo Wells Pump/Pump 2

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

Lab Sample ID: LCSD 380-170954/22-A

Matrix: Water

Analysis Batch: 171145

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 170954

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chlorothalonil (Draconil, Bravo)	1.97	2.14		ug/L		109	70 - 130	4	20
Chlorpyrifos	1.97	1.97		ug/L		100	70 - 130	1	20
Chrysene	1.97	2.11		ug/L		107	70 - 130	0	20
delta-BHC	1.97	2.07		ug/L		105	70 - 130	3	20
Di(2-ethylhexyl)adipate	1.97	2.36		ug/L		120	70 - 130	4	20
Dibenz(a,h)anthracene	1.97	2.11		ug/L		108	70 - 130	2	20
Diclorvos (DDVP)	1.97	2.07		ug/L		105	70 - 130	3	20
Dieldrin	1.97	2.15		ug/L		110	70 - 130	1	20
Diethylphthalate	1.97	2.05		ug/L		104	70 - 130	1	20
Dimethylphthalate	1.97	2.08		ug/L		106	70 - 130	1	20
Di-n-butyl phthalate	3.93	4.52		ug/L		115	70 - 130	2	20
Di-n-octyl phthalate	1.97	2.12		ug/L		108	70 - 130	6	20
Endosulfan I (Alpha)	1.97	1.97		ug/L		100	70 - 130	1	20
Endosulfan II (Beta)	1.97	2.11		ug/L		107	70 - 130	2	20
Endosulfan sulfate	1.97	2.11		ug/L		107	70 - 130	1	20
Endrin	1.97	2.34		ug/L		119	70 - 130	1	20
Endrin aldehyde	1.97	2.28		ug/L		116	60 - 130	4	20
EPTC	1.97	2.06		ug/L		105	70 - 130	0	20
Fluoranthene	1.97	2.15		ug/L		109	70 - 130	1	20
Fluorene	1.97	2.13		ug/L		108	70 - 130	1	20
gamma-Chlordane	1.97	2.21		ug/L		112	70 - 130	1	20
Heptachlor	1.97	2.24		ug/L		114	70 - 130	2	20
Heptachlor epoxide (isomer B)	1.97	2.23		ug/L		113	70 - 130	1	20
Hexachlorobenzene	1.97	2.06		ug/L		105	70 - 130	1	20
Hexachlorocyclopentadiene	1.97	2.10		ug/L		107	70 - 130	4	20
Indeno[1,2,3-cd]pyrene	1.97	2.23		ug/L		113	70 - 130	2	20
Isophorone	1.97	1.99		ug/L		101	70 - 130	3	20
Lindane	1.97	2.24		ug/L		114	70 - 130	1	20
Malathion	1.97	2.06		ug/L		105	70 - 130	0	20
Methoxychlor	1.97	2.00		ug/L		102	70 - 130	1	20
Metolachlor	1.97	2.09		ug/L		106	70 - 130	1	20
Molinate	1.97	2.13		ug/L		108	70 - 130	1	20
Naphthalene	1.97	1.89		ug/L		96	70 - 130	1	20
Parathion	1.97	2.10		ug/L		107	70 - 130	4	20
Pendimethalin (Penoxaline)	1.97	2.22		ug/L		113	70 - 130	1	20
Phenanthrene	1.97	2.05		ug/L		104	70 - 130	1	20
Propachlor	1.97	2.27		ug/L		116	70 - 130	1	20
Pyrene	1.97	2.10		ug/L		107	70 - 130	2	20
Simazine	1.97	2.23		ug/L		113	70 - 130	3	20
Terbacil	1.97	2.21		ug/L		113	70 - 130	7	20
Terbutylazine	1.97	2.18		ug/L		111	70 - 130	1	20
Thiobencarb	1.97	2.04		ug/L		104	70 - 130	1	20
trans-Nonachlor	1.97	2.21		ug/L		112	70 - 130	2	20
Trifluralin	1.97	2.04		ug/L		104	70 - 130	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Nitro-m-xylene	98		70 - 130
Perylene-d12	100		70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-168211-1
SDG: Weekly: Ka'amilo Wells Pump/Pump 2

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

Lab Sample ID: LCSD 380-170954/22-A

Matrix: Water

Analysis Batch: 171145

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 170954

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Triphenylphosphate	117		70 - 130

Lab Sample ID: LCSD 380-170954/22-A

Matrix: Water

Analysis Batch: 171761

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 170954

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	1.97	1.96		ug/L		100	70 - 130	1	20
2,4'-DDD	1.97	2.04		ug/L		104	70 - 130	4	20
2,4'-DDE	1.97	2.09		ug/L		106	70 - 130	1	20
2,4'-DDT	1.97	1.99		ug/L		101	70 - 130	1	20
2,4-Dinitrotoluene	1.97	2.14		ug/L		109	70 - 130	4	20
2,6-Dinitrotoluene	1.97	2.02		ug/L		103	70 - 130	7	20
2-Methylnaphthalene	1.97	1.83		ug/L		93	70 - 130	3	20
4,4'-DDD	1.97	2.10		ug/L		107	70 - 130	4	20
4,4'-DDE	1.97	1.99		ug/L		101	70 - 130	4	20
4,4'-DDT	1.97	2.12		ug/L		108	70 - 130	2	20
Acenaphthene	1.97	1.99		ug/L		101	70 - 130	3	20
Acenaphthylene	1.97	1.87		ug/L		95	70 - 130	3	20
Acetochlor	1.97	2.22		ug/L		113	70 - 130	2	20
Alachlor	1.97	2.20		ug/L		112	70 - 130	2	20
alpha-BHC	1.97	2.07		ug/L		105	70 - 130	0	20
alpha-Chlordane	1.97	2.03		ug/L		103	70 - 130	6	20
Anthracene	1.97	1.92		ug/L		98	70 - 130	1	20
Atrazine	1.97	2.13		ug/L		108	70 - 130	2	20
Benz(a)anthracene	1.97	1.96		ug/L		100	70 - 130	1	20
Benzo[a]pyrene	1.97	1.97		ug/L		100	70 - 130	1	20
Benzo[b]fluoranthene	1.97	2.14		ug/L		109	70 - 130	6	20
Benzo[g,h,i]perylene	1.97	2.11		ug/L		107	70 - 130	4	20
Benzo[k]fluoranthene	1.97	2.01		ug/L		102	70 - 130	1	20
beta-BHC	1.97	2.14		ug/L		109	70 - 130	2	20
Bis(2-ethylhexyl) phthalate	1.97	2.07		ug/L		106	70 - 130	4	20
Bromacil	1.97	2.11		ug/L		108	70 - 130	3	20
Butachlor	1.97	2.27		ug/L		116	70 - 130	4	20
Butylbenzylphthalate	1.97	2.09		ug/L		106	70 - 130	6	20
Chlorobenzilate	1.97	2.10		ug/L		107	70 - 130	8	20
Chloroneb	1.97	2.03		ug/L		104	70 - 130	1	20
Chlorothalonil (Draconil, Bravo)	1.97	2.04		ug/L		104	70 - 130	5	20
Chlorpyrifos	1.97	2.17		ug/L		110	70 - 130	1	20
Chrysene	1.97	2.04		ug/L		104	70 - 130	2	20
delta-BHC	1.97	2.06		ug/L		105	70 - 130	2	20
Di(2-ethylhexyl)adipate	1.97	2.09		ug/L		106	70 - 130	5	20
Dibenz(a,h)anthracene	1.97	1.99		ug/L		101	70 - 130	2	20
Diclorvos (DDVP)	1.97	2.03		ug/L		103	70 - 130	2	20
Dieldrin	1.97	1.98		ug/L		101	70 - 130	3	20
Diethylphthalate	1.97	2.20		ug/L		112	70 - 130	2	20
Dimethylphthalate	1.97	1.98		ug/L		101	70 - 130	2	20
Di-n-butyl phthalate	3.93	4.43		ug/L		113	70 - 130	0	20

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-168211-1
SDG: Weekly: Ka'amilo Wells Pump/Pump 2

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

Lab Sample ID: LCSD 380-170954/22-A

Matrix: Water

Analysis Batch: 171761

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 170954

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Di-n-octyl phthalate	1.97	2.15		ug/L		109	70 - 130	4	20
Endosulfan I (Alpha)	1.97	1.76		ug/L		89	70 - 130	7	20
Endosulfan II (Beta)	1.97	1.91		ug/L		97	70 - 130	7	20
Endosulfan sulfate	1.97	2.00		ug/L		102	70 - 130	3	20
Endrin	1.97	2.13		ug/L		108	70 - 130	3	20
Endrin aldehyde	1.97	1.77		ug/L		90	60 - 130	2	20
EPTC	1.97	2.02		ug/L		103	70 - 130	3	20
Fluoranthene	1.97	2.13		ug/L		108	70 - 130	0	20
Fluorene	1.97	2.08		ug/L		106	70 - 130	3	20
gamma-Chlordane	1.97	2.13		ug/L		108	70 - 130	4	20
Heptachlor	1.97	2.22		ug/L		113	70 - 130	0	20
Heptachlor epoxide (isomer B)	1.97	2.11		ug/L		107	70 - 130	1	20
Hexachlorobenzene	1.97	2.05		ug/L		104	70 - 130	0	20
Hexachlorocyclopentadiene	1.97	1.95		ug/L		99	70 - 130	1	20
Indeno[1,2,3-cd]pyrene	1.97	2.05		ug/L		104	70 - 130	5	20
Isophorone	1.97	2.00		ug/L		102	70 - 130	2	20
Lindane	1.97	2.24		ug/L		114	70 - 130	4	20
Malathion	1.97	2.16		ug/L		110	70 - 130	0	20
Methoxychlor	1.97	2.26		ug/L		115	70 - 130	0	20
Metolachlor	1.97	2.24		ug/L		114	70 - 130	1	20
Molinate	1.97	2.19		ug/L		111	70 - 130	2	20
Naphthalene	1.97	1.81		ug/L		92	70 - 130	2	20
Parathion	1.97	2.27		ug/L		115	70 - 130	2	20
Pendimethalin (Penoxaline)	1.97	2.05		ug/L		104	70 - 130	1	20
Phenanthrene	1.97	1.95		ug/L		99	70 - 130	0	20
Propachlor	1.97	2.25		ug/L		114	70 - 130	0	20
Pyrene	1.97	2.09		ug/L		107	70 - 130	6	20
Simazine	1.97	2.26		ug/L		115	70 - 130	2	20
Terbacil	1.97	2.34		ug/L		119	70 - 130	1	20
Terbutylazine	1.97	2.32		ug/L		118	70 - 130	2	20
Thiobencarb	1.97	2.31		ug/L		118	70 - 130	1	20
trans-Nonachlor	1.97	2.03		ug/L		103	70 - 130	8	20
Trifluralin	1.97	2.17		ug/L		110	70 - 130	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Nitro-m-xylene	94		70 - 130
Perylene-d12	95		70 - 130
Triphenylphosphate	100		70 - 130

Lab Sample ID: MRL 380-170954/20-A

Matrix: Water

Analysis Batch: 171761

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 170954

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	0.0985	0.104		ug/L		105	50 - 150
2,4'-DDD	0.0985	0.106		ug/L		107	50 - 150
2,4'-DDE	0.0985	0.115		ug/L		117	50 - 150
2,4'-DDT	0.0985	0.141		ug/L		144	50 - 150

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-168211-1
SDG: Weekly: Ka'amilo Wells Pump/Pump 2

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

Lab Sample ID: MRL 380-170954/20-A

Matrix: Water

Analysis Batch: 171761

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 170954

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
2,4-Dinitrotoluene	0.0985	0.120		ug/L		122	50 - 150
2,6-Dinitrotoluene	0.0985	0.128		ug/L		130	50 - 150
2-Methylnaphthalene	0.0985	0.105		ug/L		107	50 - 150
4,4'-DDD	0.0985	0.124		ug/L		126	50 - 150
4,4'-DDE	0.0985	0.113		ug/L		115	50 - 150
4,4'-DDT	0.0985	0.157	^3+	ug/L		159	50 - 150
Acenaphthene	0.0985	0.106		ug/L		108	50 - 150
Acenaphthylene	0.0985	0.0848	J	ug/L		86	50 - 150
Acetochlor	0.0985	0.135		ug/L		137	50 - 150
Alachlor	0.0492	0.0604		ug/L		123	50 - 150
alpha-BHC	0.0985	0.114		ug/L		116	50 - 150
alpha-Chlordane	0.0246	0.0307	J	ug/L		125	50 - 150
Anthracene	0.0197	0.0224		ug/L		114	50 - 150
Atrazine	0.0492	0.0640		ug/L		130	50 - 150
Benz(a)anthracene	0.0492	0.0632		ug/L		128	50 - 150
Benzo[a]pyrene	0.0197	0.0234		ug/L		119	50 - 150
Benzo[b]fluoranthene	0.0197	0.0268		ug/L		136	50 - 150
Benzo[g,h,i]perylene	0.0492	0.0468	J	ug/L		95	50 - 150
Benzo[k]fluoranthene	0.0197	0.0239		ug/L		121	50 - 150
beta-BHC	0.0985	0.125		ug/L		127	50 - 150
Bis(2-ethylhexyl) phthalate	0.591	0.674		ug/L		114	50 - 150
Bromacil	0.0985	0.118		ug/L		120	50 - 150
Butachlor	0.0492	0.0678		ug/L		138	50 - 150
Butylbenzylphthalate	0.492	0.725		ug/L		147	50 - 150
Chlorobenzilate	0.0985	0.124		ug/L		126	50 - 150
Chloroneb	0.0985	0.115		ug/L		117	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0985	0.106		ug/L		108	50 - 150
Chlorpyrifos	0.0492	0.0681		ug/L		138	50 - 150
Chrysene	0.0197	0.0257		ug/L		131	50 - 150
delta-BHC	0.0985	0.121		ug/L		122	50 - 150
Di(2-ethylhexyl)adipate	0.591	0.822		ug/L		139	50 - 150
Dibenz(a,h)anthracene	0.0492	0.0537		ug/L		109	50 - 150
Diclorvos (DDVP)	0.0492	0.0635		ug/L		129	50 - 150
Dieldrin	0.00985	0.0127		ug/L		129	50 - 150
Diethylphthalate	0.492	0.636		ug/L		129	50 - 150
Dimethylphthalate	0.492	0.576		ug/L		117	50 - 150
Di-n-butyl phthalate	0.492	0.750	J	ug/L		152	49 - 243
Di-n-octyl phthalate	0.0985	0.107		ug/L		108	50 - 150
Endosulfan I (Alpha)	0.0985	0.123		ug/L		125	50 - 150
Endosulfan II (Beta)	0.0985	0.146		ug/L		148	50 - 150
Endosulfan sulfate	0.0985	0.131		ug/L		133	50 - 150
Endrin	0.00985	0.0124		ug/L		126	50 - 150
Endrin aldehyde	0.0985	0.121		ug/L		123	50 - 150
EPTC	0.0985	0.104		ug/L		106	50 - 150
Fluoranthene	0.0985	0.112		ug/L		113	50 - 150
Fluorene	0.0492	0.0566		ug/L		115	50 - 150
gamma-Chlordane	0.0246	0.0282	J	ug/L		114	50 - 150
Heptachlor	0.00985	0.0126		ug/L		127	50 - 150
Heptachlor epoxide (isomer B)	0.00985	0.0132		ug/L		134	50 - 150

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-168211-1
SDG: Weekly: Ka'amilo Wells Pump/Pump 2

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

Lab Sample ID: MRL 380-170954/20-A

Matrix: Water

Analysis Batch: 171761

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 170954

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Hexachlorobenzene	0.0492	0.0523		ug/L		106	50 - 150
Hexachlorocyclopentadiene	0.0492	0.0486	J	ug/L		99	50 - 150
Indeno[1,2,3-cd]pyrene	0.0492	0.0591		ug/L		120	50 - 150
Isophorone	0.0985	0.123		ug/L		125	50 - 150
Lindane	0.00985	0.0119		ug/L		121	50 - 150
Malathion	0.0985	0.122		ug/L		124	50 - 150
Methoxychlor	0.0492	0.0716		ug/L		145	50 - 150
Metolachlor	0.0492	0.0663		ug/L		135	50 - 150
Molinate	0.0985	0.119		ug/L		121	50 - 150
Naphthalene	0.0985	0.108		ug/L		110	50 - 150
Parathion	0.0985	0.113		ug/L		114	50 - 150
Pendimethalin (Penoxaline)	0.0985	0.131		ug/L		133	50 - 150
Phenanthrene	0.0394	0.0460		ug/L		117	50 - 150
Propachlor	0.0492	0.0625		ug/L		127	50 - 150
Pyrene	0.0492	0.0590		ug/L		120	50 - 150
Simazine	0.0492	0.0540		ug/L		110	50 - 150
Terbacil	0.0985	0.121		ug/L		123	50 - 150
Terbutylazine	0.0985	0.118		ug/L		120	50 - 150
Thiobencarb	0.0985	0.124		ug/L		126	50 - 150
trans-Nonachlor	0.0246	0.0296	J	ug/L		120	50 - 150
Trifluralin	0.0985	0.128		ug/L		130	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
2-Nitro-m-xylene	97		70 - 130
Perylene-d12	88		70 - 130
Triphenylphosphate	112		70 - 130

Lab Sample ID: 380-168205-I-1-A MS

Matrix: Water

Analysis Batch: 171761

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 170954

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.098		1.97	1.93		ug/L		98	70 - 130
2,4'-DDD	<0.098		1.97	2.06		ug/L		104	70 - 130
2,4'-DDE	<0.098		1.97	2.03		ug/L		103	70 - 130
2,4'-DDT	<0.098		1.97	1.97		ug/L		100	70 - 130
2,4-Dinitrotoluene	<0.098		1.97	2.06		ug/L		105	70 - 130
2,6-Dinitrotoluene	<0.098		1.97	2.02		ug/L		103	70 - 130
2-Methylnaphthalene	<0.098		1.97	1.78		ug/L		90	70 - 130
4,4'-DDD	<0.098		1.97	2.09		ug/L		106	70 - 130
4,4'-DDE	<0.098		1.97	2.00		ug/L		102	70 - 130
4,4'-DDT	<0.098	^3+	1.97	2.10		ug/L		106	70 - 130
Acenaphthene	<0.098		1.97	1.95		ug/L		99	70 - 130
Acenaphthylene	<0.098		1.97	1.96		ug/L		100	70 - 130
Acetochlor	<0.098		1.97	2.08		ug/L		106	70 - 130
Alachlor	<0.049		1.97	2.08		ug/L		106	70 - 130
alpha-BHC	<0.098		1.97	2.03		ug/L		103	70 - 130
alpha-Chlordane	<0.049		1.97	2.12		ug/L		106	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-168211-1
SDG: Weekly: Ka'amilo Wells Pump/Pump 2

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

Lab Sample ID: 380-168205-I-1-A MS

Matrix: Water

Analysis Batch: 171761

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 170954

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Anthracene	<0.020	F1	1.97	1.26	F1	ug/L		64	70 - 130
Atrazine	<0.049		1.97	2.07		ug/L		105	70 - 130
Benz(a)anthracene	<0.049		1.97	1.93		ug/L		98	70 - 130
Benzo[a]pyrene	<0.020		1.97	1.84		ug/L		93	70 - 130
Benzo[b]fluoranthene	<0.020		1.97	2.05		ug/L		104	70 - 130
Benzo[g,h,i]perylene	<0.049		1.97	2.04		ug/L		104	70 - 130
Benzo[k]fluoranthene	<0.020		1.97	1.99		ug/L		101	70 - 130
beta-BHC	<0.098		1.97	2.13		ug/L		108	70 - 130
Bis(2-ethylhexyl) phthalate	<0.59		1.97	2.14		ug/L		109	70 - 130
Bromacil	<0.098		1.97	2.06		ug/L		102	70 - 130
Butachlor	<0.049		1.97	2.26		ug/L		115	70 - 130
Butylbenzylphthalate	<0.49		1.97	2.05		ug/L		104	70 - 130
Chlorobenzilate	<0.098		1.97	2.13		ug/L		108	70 - 130
Chloroneb	<0.098		1.97	1.98		ug/L		101	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.098		1.97	1.87		ug/L		95	70 - 130
Chlorpyrifos	<0.049		1.97	2.07		ug/L		105	70 - 130
Chrysene	<0.020		1.97	1.98		ug/L		101	70 - 130
delta-BHC	<0.098		1.97	1.93		ug/L		98	70 - 130
Di(2-ethylhexyl)adipate	<0.59		1.97	2.05		ug/L		104	70 - 130
Dibenz(a,h)anthracene	<0.049		1.97	1.96		ug/L		99	70 - 130
Diclorvos (DDVP)	<0.049		1.97	1.95		ug/L		99	70 - 130
Dieldrin	0.045		1.97	2.08		ug/L		103	70 - 130
Diethylphthalate	<0.49		1.97	2.14		ug/L		109	70 - 130
Dimethylphthalate	<0.49		1.97	2.01		ug/L		102	70 - 130
Di-n-butyl phthalate	<0.98		3.94	4.27		ug/L		108	70 - 130
Di-n-octyl phthalate	<0.098		1.97	2.26		ug/L		115	70 - 130
Endosulfan I (Alpha)	<0.098		1.97	1.86		ug/L		94	70 - 130
Endosulfan II (Beta)	<0.098		1.97	1.97		ug/L		100	70 - 130
Endosulfan sulfate	<0.098		1.97	2.11		ug/L		107	70 - 130
Endrin	<0.0098		1.97	2.13		ug/L		108	70 - 130
Endrin aldehyde	<0.098		1.97	1.51		ug/L		77	60 - 130
EPTC	<0.098		1.97	1.99		ug/L		101	70 - 130
Fluoranthene	<0.098		1.97	2.05		ug/L		104	70 - 130
Fluorene	<0.049		1.97	1.97		ug/L		100	70 - 130
gamma-Chlordane	<0.049		1.97	2.14		ug/L		108	70 - 130
Heptachlor	<0.0098		1.97	2.15		ug/L		109	70 - 130
Heptachlor epoxide (isomer B)	0.012		1.97	2.11		ug/L		106	70 - 130
Hexachlorobenzene	<0.049		1.97	2.00		ug/L		102	70 - 130
Hexachlorocyclopentadiene	<0.049		1.97	1.75		ug/L		89	70 - 130
Indeno[1,2,3-cd]pyrene	<0.049		1.97	1.96		ug/L		100	70 - 130
Isophorone	<0.098		1.97	1.93		ug/L		98	70 - 130
Lindane	<0.0098		1.97	2.14		ug/L		109	70 - 130
Malathion	<0.098		1.97	2.03		ug/L		103	70 - 130
Methoxychlor	<0.049		1.97	2.18		ug/L		111	70 - 130
Metolachlor	<0.049		1.97	2.18		ug/L		111	70 - 130
Molinate	<0.098		1.97	2.10		ug/L		107	70 - 130
Naphthalene	<0.098		1.97	1.81		ug/L		92	70 - 130
Parathion	<0.098		1.97	2.09		ug/L		106	70 - 130
Pendimethalin (Penoxaline)	<0.098		1.97	1.99		ug/L		101	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-168211-1
SDG: Weekly: Ka'amilo Wells Pump/Pump 2

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

Lab Sample ID: 380-168205-I-1-A MS

Matrix: Water

Analysis Batch: 171761

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 170954

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Phenanthrene	<0.039		1.97	1.88		ug/L		95	70 - 130
Propachlor	<0.049		1.97	2.12		ug/L		107	70 - 130
Pyrene	<0.049		1.97	2.07		ug/L		105	70 - 130
Simazine	<0.049		1.97	2.19		ug/L		111	70 - 130
Terbacil	<0.098		1.97	2.25		ug/L		114	70 - 130
Terbutylazine	<0.098		1.97	2.25		ug/L		114	70 - 130
Thiobencarb	<0.098		1.97	2.10		ug/L		106	70 - 130
trans-Nonachlor	<0.049		1.97	2.13		ug/L		108	70 - 130
Trifluralin	<0.098		1.97	2.12		ug/L		108	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Nitro-m-xylene	94		70 - 130
Perylene-d12	95		70 - 130
Triphenylphosphate	102		70 - 130

Lab Sample ID: 380-168209-I-1-A DU

Matrix: Water

Analysis Batch: 171145

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 170954

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
1-Methylnaphthalene	<0.099		<0.098		ug/L		NC	20
2,4'-DDD	<0.099		<0.098		ug/L		NC	20
2,4'-DDE	<0.099		<0.098		ug/L		NC	20
2,4'-DDT	<0.099		<0.098		ug/L		NC	20
2,4-Dinitrotoluene	<0.099		<0.098		ug/L		NC	20
2,6-Dinitrotoluene	<0.099		<0.098		ug/L		NC	20
2-Methylnaphthalene	<0.099		<0.098		ug/L		NC	20
4,4'-DDD	<0.099		<0.098		ug/L		NC	20
4,4'-DDE	<0.099		<0.098		ug/L		NC	20
4,4'-DDT	<0.099	^3+	<0.098		ug/L		NC	20
Acenaphthene	<0.099		<0.098		ug/L		NC	20
Acenaphthylene	<0.099		<0.098		ug/L		NC	20
Acetochlor	<0.099		<0.098		ug/L		NC	20
Alachlor	<0.049		<0.049		ug/L		NC	20
alpha-BHC	<0.099		<0.098		ug/L		NC	20
alpha-Chlordane	<0.049		<0.049		ug/L		NC	20
Anthracene	<0.020		<0.020		ug/L		NC	20
Atrazine	<0.049		<0.049		ug/L		NC	20
Benz(a)anthracene	<0.049		<0.049		ug/L		NC	20
Benzo[a]pyrene	<0.020	^3+	<0.020		ug/L		NC	20
Benzo[b]fluoranthene	<0.020	^3+	<0.020		ug/L		NC	20
Benzo[g,h,i]perylene	<0.049		<0.049		ug/L		NC	20
Benzo[k]fluoranthene	<0.020	^3+	<0.020		ug/L		NC	20
beta-BHC	<0.099		<0.098		ug/L		NC	20
Bis(2-ethylhexyl) phthalate	<0.59		<0.59		ug/L		NC	20
Bromacil	<0.099	^3+	<0.098		ug/L		NC	20
Butachlor	<0.049		<0.049		ug/L		NC	20
Butylbenzylphthalate	<0.49	^3+	<0.49		ug/L		NC	20

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-168211-1
SDG: Weekly: Ka'amilo Wells Pump/Pump 2

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

Lab Sample ID: 380-168209-I-1-A DU

Matrix: Water

Analysis Batch: 171145

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 170954

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Chlorobenzilate	<0.099		<0.098		ug/L		NC	20
Chloroneb	<0.099		<0.098		ug/L		NC	20
Chlorothalonil (Draconil, Bravo)	<0.099		<0.098		ug/L		NC	20
Chlorpyrifos	<0.049		<0.049		ug/L		NC	20
Chrysene	<0.020		<0.020		ug/L		NC	20
delta-BHC	<0.099		<0.098		ug/L		NC	20
Di(2-ethylhexyl)adipate	<0.59		<0.59		ug/L		NC	20
Dibenz(a,h)anthracene	<0.049		<0.049		ug/L		NC	20
Diclorvos (DDVP)	<0.049		<0.049		ug/L		NC	20
Dieldrin	<0.0099	^3+	<0.0098		ug/L		NC	20
Diethylphthalate	<0.49		<0.49		ug/L		NC	20
Dimethylphthalate	<0.49		<0.49		ug/L		NC	20
Di-n-butyl phthalate	<0.99		<0.98		ug/L		NC	20
Di-n-octyl phthalate	<0.099		<0.098		ug/L		NC	20
Endosulfan I (Alpha)	<0.099		<0.098		ug/L		NC	20
Endosulfan II (Beta)	<0.099		<0.098		ug/L		NC	20
Endosulfan sulfate	<0.099	^3+	<0.098		ug/L		NC	20
Endrin	<0.0099		<0.0098		ug/L		NC	20
Endrin aldehyde	<0.099		<0.098		ug/L		NC	20
EPTC	<0.099		<0.098		ug/L		NC	20
Fluoranthene	<0.099		<0.098		ug/L		NC	20
Fluorene	<0.049		<0.049		ug/L		NC	20
gamma-Chlordane	<0.049		<0.049		ug/L		NC	20
Heptachlor	<0.0099		<0.0098		ug/L		NC	20
Heptachlor epoxide (isomer B)	<0.0099	^3+	<0.0098		ug/L		NC	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	<0.099		<0.098		ug/L		NC	20
Lindane	<0.0099		<0.0098		ug/L		NC	20
Malathion	<0.099		<0.098		ug/L		NC	20
Methoxychlor	<0.049	^3+	<0.049		ug/L		NC	20
Metolachlor	<0.049		<0.049		ug/L		NC	20
Molinate	<0.099		<0.098		ug/L		NC	20
Naphthalene	<0.099		<0.098		ug/L		NC	20
Parathion	<0.099		<0.098		ug/L		NC	20
Pendimethalin (Penoxaline)	<0.099		<0.098		ug/L		NC	20
Phenanthrene	<0.040		<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	<0.099		<0.098		ug/L		NC	20
Terbutylazine	<0.099		<0.098		ug/L		NC	20
Thiobencarb	<0.099		<0.098		ug/L		NC	20
Total Permethrin (mixed isomers)	<0.20		<0.20		ug/L		NC	20
trans-Nonachlor	<0.049		<0.049		ug/L		NC	20
Trifluralin	<0.099		<0.098		ug/L		NC	20

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-168211-1
SDG: Weekly: Ka'amilo Wells Pump/Pump 2

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

Lab Sample ID: 380-168209-I-1-A DU

Matrix: Water

Analysis Batch: 171145

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 170954

Surrogate	%Recovery	DU DU Qualifier	Limits
2-Nitro-m-xylene	94		70 - 130
Perylene-d12	89		70 - 130
Triphenylphosphate	116		70 - 130

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

Lab Sample ID: MB 570-617934/1-A

Matrix: Water

Analysis Batch: 623413

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 617934

Tentatively Identified Compound	Est. Result	MB MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	08/28/25 08:30	09/10/25 10:00	1

Surrogate	%Recovery	MB MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	78		33 - 139	08/28/25 08:30	09/10/25 10:00	1
2-Fluorobiphenyl (Surr)	79		33 - 126	08/28/25 08:30	09/10/25 10:00	1
2-Fluorophenol (Surr)	52		12 - 120	08/28/25 08:30	09/10/25 10:00	1
Nitrobenzene-d5 (Surr)	87		36 - 120	08/28/25 08:30	09/10/25 10:00	1
Phenol-d6 (Surr)	31		10 - 120	08/28/25 08:30	09/10/25 10:00	1
p-Terphenyl-d14 (Surr)	79		47 - 131	08/28/25 08:30	09/10/25 10:00	1

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

Lab Sample ID: MB 570-617934/1-A

Matrix: Water

Analysis Batch: 619301

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 617934

Analyte	Result	MB MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.20		0.20	ug/L		08/28/25 08:30	08/30/25 16:13	1
2-Methylnaphthalene	<0.20		0.20	ug/L		08/28/25 08:30	08/30/25 16:13	1
Acenaphthene	<0.20		0.20	ug/L		08/28/25 08:30	08/30/25 16:13	1
Acenaphthylene	<0.20		0.20	ug/L		08/28/25 08:30	08/30/25 16:13	1
Anthracene	<0.20		0.20	ug/L		08/28/25 08:30	08/30/25 16:13	1
Benzo[a]anthracene	<0.20		0.20	ug/L		08/28/25 08:30	08/30/25 16:13	1
Benzo[a]pyrene	<0.20		0.20	ug/L		08/28/25 08:30	08/30/25 16:13	1
Benzo[b]fluoranthene	<0.20		0.20	ug/L		08/28/25 08:30	08/30/25 16:13	1
Benzo[g,h,i]perylene	<0.20		0.20	ug/L		08/28/25 08:30	08/30/25 16:13	1
Benzo[k]fluoranthene	<0.20		0.20	ug/L		08/28/25 08:30	08/30/25 16:13	1
Chrysene	<0.20		0.20	ug/L		08/28/25 08:30	08/30/25 16:13	1
Dibenz(a,h)anthracene	<0.20		0.20	ug/L		08/28/25 08:30	08/30/25 16:13	1
Fluoranthene	<0.20		0.20	ug/L		08/28/25 08:30	08/30/25 16:13	1
Fluorene	<0.20		0.20	ug/L		08/28/25 08:30	08/30/25 16:13	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20	ug/L		08/28/25 08:30	08/30/25 16:13	1
Naphthalene	<0.20		0.20	ug/L		08/28/25 08:30	08/30/25 16:13	1
Phenanthrene	<0.20		0.20	ug/L		08/28/25 08:30	08/30/25 16:13	1
Pyrene	<0.20		0.20	ug/L		08/28/25 08:30	08/30/25 16:13	1

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-168211-1
SDG: Weekly: Ka'amilo Wells Pump/Pump 2

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

Lab Sample ID: MB 570-617934/1-A

Matrix: Water

Analysis Batch: 619301

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 617934

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	95		28 - 127	08/28/25 08:30	08/30/25 16:13	1
2-Fluorobiphenyl (Surr)	78		31 - 120	08/28/25 08:30	08/30/25 16:13	1
2-Fluorophenol (Surr)	53		17 - 120	08/28/25 08:30	08/30/25 16:13	1
Nitrobenzene-d5 (Surr)	81		27 - 120	08/28/25 08:30	08/30/25 16:13	1
Phenol-d6 (Surr)	32		10 - 120	08/28/25 08:30	08/30/25 16:13	1
p-Terphenyl-d14 (Surr)	76		45 - 120	08/28/25 08:30	08/30/25 16:13	1

Lab Sample ID: LCS 570-617934/2-A

Matrix: Water

Analysis Batch: 619301

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 617934

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	20.0	16.3		ug/L		82	47 - 120
2-Methylnaphthalene	20.0	16.0		ug/L		80	43 - 120
Acenaphthene	20.0	19.6		ug/L		98	60 - 132
Acenaphthylene	20.0	20.3		ug/L		102	54 - 126
Anthracene	20.0	19.4		ug/L		97	43 - 120
Benzo[a]anthracene	20.0	19.2		ug/L		96	42 - 133
Benzo[a]pyrene	20.0	20.6		ug/L		103	32 - 148
Benzo[b]fluoranthene	20.0	20.1		ug/L		101	42 - 140
Benzo[g,h,i]perylene	20.0	20.9		ug/L		104	1 - 195
Benzo[k]fluoranthene	20.0	20.4		ug/L		102	25 - 146
Chrysene	20.0	19.8		ug/L		99	44 - 140
Dibenz(a,h)anthracene	20.0	21.6		ug/L		108	1 - 200
Fluoranthene	20.0	20.2		ug/L		101	43 - 121
Fluorene	20.0	20.1		ug/L		100	70 - 120
Indeno[1,2,3-cd]pyrene	20.0	19.7		ug/L		99	1 - 151
Naphthalene	20.0	16.1		ug/L		81	36 - 120
Phenanthrene	20.0	19.4		ug/L		97	65 - 120
Pyrene	20.0	19.5		ug/L		98	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	88		28 - 127
2-Fluorobiphenyl (Surr)	75		31 - 120
2-Fluorophenol (Surr)	53		17 - 120
Nitrobenzene-d5 (Surr)	63		27 - 120
Phenol-d6 (Surr)	34		10 - 120
p-Terphenyl-d14 (Surr)	72		45 - 120

Lab Sample ID: LCSD 570-617934/3-A

Matrix: Water

Analysis Batch: 619301

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 617934

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	20.0	16.7		ug/L		84	47 - 120	3	20
2-Methylnaphthalene	20.0	16.6		ug/L		83	43 - 120	4	20
Acenaphthene	20.0	20.4		ug/L		102	60 - 132	4	29
Acenaphthylene	20.0	21.1		ug/L		106	54 - 126	4	45

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-168211-1
SDG: Weekly: Ka'amilo Wells Pump/Pump 2

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

Lab Sample ID: LCSD 570-617934/3-A

Matrix: Water

Analysis Batch: 619301

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 617934

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Anthracene	20.0	20.2		ug/L		101	43 - 120	4	40
Benzo[a]anthracene	20.0	20.4		ug/L		102	42 - 133	6	32
Benzo[a]pyrene	20.0	21.7		ug/L		108	32 - 148	5	43
Benzo[b]fluoranthene	20.0	21.3		ug/L		106	42 - 140	6	43
Benzo[g,h,i]perylene	20.0	22.2		ug/L		111	1 - 195	6	61
Benzo[k]fluoranthene	20.0	21.0		ug/L		105	25 - 146	3	38
Chrysene	20.0	20.8		ug/L		104	44 - 140	5	53
Dibenz(a,h)anthracene	20.0	22.7		ug/L		114	1 - 200	5	75
Fluoranthene	20.0	21.3		ug/L		106	43 - 121	5	40
Fluorene	20.0	21.0		ug/L		105	70 - 120	4	23
Indeno[1,2,3-cd]pyrene	20.0	20.9		ug/L		104	1 - 151	6	60
Naphthalene	20.0	17.1		ug/L		85	36 - 120	6	39
Phenanthrene	20.0	20.4		ug/L		102	65 - 120	5	24
Pyrene	20.0	20.7		ug/L		104	70 - 120	6	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
2,4,6-Tribromophenol (Surr)	92		28 - 127
2-Fluorobiphenyl (Surr)	78		31 - 120
2-Fluorophenol (Surr)	53		17 - 120
Nitrobenzene-d5 (Surr)	66		27 - 120
Phenol-d6 (Surr)	34		10 - 120
p-Terphenyl-d14 (Surr)	77		45 - 120

Lab Sample ID: 380-168000-A-1-A MS

Matrix: Water

Analysis Batch: 619301

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 617934

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.19		19.4	16.1		ug/L		83	36 - 120
2-Methylnaphthalene	<0.19		19.4	16.0		ug/L		82	32 - 124
Acenaphthene	<0.19		19.4	19.3		ug/L		99	47 - 145
Acenaphthylene	<0.19		19.4	20.0		ug/L		103	33 - 145
Anthracene	<0.19		19.4	19.1		ug/L		99	27 - 133
Benzo[a]anthracene	<0.19		19.4	19.0		ug/L		98	33 - 143
Benzo[a]pyrene	<0.19		19.4	19.9		ug/L		102	17 - 163
Benzo[b]fluoranthene	<0.19		19.4	19.8		ug/L		102	24 - 159
Benzo[g,h,i]perylene	<0.19		19.4	20.2		ug/L		104	1 - 219
Benzo[k]fluoranthene	<0.19		19.4	19.5		ug/L		101	11 - 162
Chrysene	<0.19		19.4	19.5		ug/L		100	17 - 168
Dibenz(a,h)anthracene	<0.19		19.4	20.3		ug/L		104	1 - 227
Fluoranthene	<0.19		19.4	20.3		ug/L		104	26 - 137
Fluorene	<0.19		19.4	20.2		ug/L		104	59 - 121
Indeno[1,2,3-cd]pyrene	<0.19		19.4	19.0		ug/L		98	1 - 171
Naphthalene	<0.19		19.4	16.1		ug/L		83	21 - 133
Phenanthrene	<0.19		19.4	19.3		ug/L		99	54 - 120
Pyrene	<0.19		19.4	19.5		ug/L		100	52 - 120

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-168211-1
SDG: Weekly: Ka'amilo Wells Pump/Pump 2

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

Lab Sample ID: 380-168000-A-1-A MS

Matrix: Water

Analysis Batch: 619301

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 617934

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
2,4,6-Tribromophenol (Surr)	88		28 - 127
2-Fluorobiphenyl (Surr)	75		31 - 120
2-Fluorophenol (Surr)	51		17 - 120
Nitrobenzene-d5 (Surr)	64		27 - 120
Phenol-d6 (Surr)	32		10 - 120
p-Terphenyl-d14 (Surr)	72		45 - 120

Lab Sample ID: 380-168000-A-1-B MSD

Matrix: Water

Analysis Batch: 619301

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 617934

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	<0.19		19.7	17.3		ug/L		88	36 - 120	7	30
2-Methylnaphthalene	<0.19		19.7	17.2		ug/L		88	32 - 124	7	30
Acenaphthene	<0.19		19.7	20.8		ug/L		106	47 - 145	7	48
Acenaphthylene	<0.19		19.7	21.5		ug/L		109	33 - 145	7	74
Anthracene	<0.19		19.7	20.1		ug/L		102	27 - 133	5	66
Benzo[a]anthracene	<0.19		19.7	20.3		ug/L		103	33 - 143	7	53
Benzo[a]pyrene	<0.19		19.7	21.7		ug/L		111	17 - 163	9	72
Benzo[b]fluoranthene	<0.19		19.7	20.8		ug/L		106	24 - 159	5	71
Benzo[g,h,i]perylene	<0.19		19.7	21.7		ug/L		110	1 - 219	7	97
Benzo[k]fluoranthene	<0.19		19.7	21.1		ug/L		107	11 - 162	8	63
Chrysene	<0.19		19.7	21.0		ug/L		107	17 - 168	7	87
Dibenz(a,h)anthracene	<0.19		19.7	22.0		ug/L		112	1 - 227	8	126
Fluoranthene	<0.19		19.7	21.2		ug/L		108	26 - 137	5	66
Fluorene	<0.19		19.7	21.3		ug/L		108	59 - 121	6	38
Indeno[1,2,3-cd]pyrene	<0.19		19.7	20.7		ug/L		105	1 - 171	9	99
Naphthalene	<0.19		19.7	17.4		ug/L		88	21 - 133	8	65
Phenanthrene	<0.19		19.7	20.5		ug/L		104	54 - 120	6	39
Pyrene	<0.19		19.7	20.9		ug/L		107	52 - 120	7	49

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
2,4,6-Tribromophenol (Surr)	93		28 - 127
2-Fluorobiphenyl (Surr)	79		31 - 120
2-Fluorophenol (Surr)	56		17 - 120
Nitrobenzene-d5 (Surr)	68		27 - 120
Phenol-d6 (Surr)	35		10 - 120
p-Terphenyl-d14 (Surr)	76		45 - 120

Lab Sample ID: 380-168205-A-1-A MS

Matrix: Water

Analysis Batch: 619556

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 617934

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.19		19.3	17.3		ug/L		90	36 - 120
2-Methylnaphthalene	<0.19		19.3	17.4		ug/L		90	32 - 124
Acenaphthene	<0.19		19.3	19.7		ug/L		102	47 - 145
Acenaphthylene	<0.19		19.3	20.1		ug/L		104	33 - 145

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-168211-1
SDG: Weekly: Ka'amilo Wells Pump/Pump 2

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

Lab Sample ID: 380-168205-A-1-A MS

Matrix: Water

Analysis Batch: 619556

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 617934

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Anthracene	<0.19		19.3	19.9		ug/L		103	27 - 133
Benzo[a]anthracene	<0.19		19.3	21.2		ug/L		110	33 - 143
Benzo[a]pyrene	<0.19		19.3	17.4		ug/L		90	17 - 163
Benzo[b]fluoranthene	<0.19		19.3	17.9		ug/L		93	24 - 159
Benzo[g,h,i]perylene	<0.19		19.3	17.4		ug/L		90	1 - 219
Benzo[k]fluoranthene	<0.19		19.3	17.6		ug/L		91	11 - 162
Chrysene	<0.19		19.3	20.4		ug/L		106	17 - 168
Dibenz(a,h)anthracene	<0.19		19.3	17.9		ug/L		93	1 - 227
Fluoranthene	<0.19		19.3	20.5		ug/L		106	26 - 137
Fluorene	<0.19		19.3	20.6		ug/L		106	59 - 121
Indeno[1,2,3-cd]pyrene	<0.19		19.3	16.8		ug/L		87	1 - 171
Naphthalene	<0.19		19.3	16.5		ug/L		86	21 - 133
Phenanthrene	<0.19		19.3	19.5		ug/L		101	54 - 120
Pyrene	<0.19	F1	19.3	24.1	F1	ug/L		125	52 - 120

Surrogate	MS %Recovery	MS Qualifier	MS Limits
2,4,6-Tribromophenol (Surr)	82		28 - 127
2-Fluorobiphenyl (Surr)	75		31 - 120
2-Fluorophenol (Surr)	59		17 - 120
Nitrobenzene-d5 (Surr)	66		27 - 120
Phenol-d6 (Surr)	39		10 - 120
p-Terphenyl-d14 (Surr)	84		45 - 120

Lab Sample ID: 380-168205-A-1-B MSD

Matrix: Water

Analysis Batch: 619556

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 617934

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	<0.19		19.6	18.3		ug/L		93	36 - 120	5	30
2-Methylnaphthalene	<0.19		19.6	18.2		ug/L		93	32 - 124	5	30
Acenaphthene	<0.19		19.6	21.2		ug/L		108	47 - 145	7	48
Acenaphthylene	<0.19		19.6	21.8		ug/L		111	33 - 145	8	74
Anthracene	<0.19		19.6	21.9		ug/L		112	27 - 133	9	66
Benzo[a]anthracene	<0.19		19.6	22.5		ug/L		115	33 - 143	6	53
Benzo[a]pyrene	<0.19		19.6	20.5		ug/L		104	17 - 163	16	72
Benzo[b]fluoranthene	<0.19		19.6	20.5		ug/L		105	24 - 159	14	71
Benzo[g,h,i]perylene	<0.19		19.6	21.7		ug/L		110	1 - 219	22	97
Benzo[k]fluoranthene	<0.19		19.6	20.8		ug/L		106	11 - 162	17	63
Chrysene	<0.19		19.6	22.1		ug/L		112	17 - 168	8	87
Dibenz(a,h)anthracene	<0.19		19.6	22.1		ug/L		112	1 - 227	21	126
Fluoranthene	<0.19		19.6	21.9		ug/L		111	26 - 137	6	66
Fluorene	<0.19		19.6	21.7		ug/L		111	59 - 121	6	38
Indeno[1,2,3-cd]pyrene	<0.19		19.6	20.6		ug/L		105	1 - 171	20	99
Naphthalene	<0.19		19.6	18.1		ug/L		92	21 - 133	9	65
Phenanthrene	<0.19		19.6	21.5		ug/L		109	54 - 120	10	39
Pyrene	<0.19	F1	19.6	25.3	F1	ug/L		129	52 - 120	5	49

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-168211-1
SDG: Weekly: Ka'amilo Wells Pump/Pump 2

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

Lab Sample ID: 380-168205-A-1-B MSD

Matrix: Water

Analysis Batch: 619556

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 617934

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
2,4,6-Tribromophenol (Surr)	87		28 - 127
2-Fluorobiphenyl (Surr)	83		31 - 120
2-Fluorophenol (Surr)	62		17 - 120
Nitrobenzene-d5 (Surr)	72		27 - 120
Phenol-d6 (Surr)	39		10 - 120
p-Terphenyl-d14 (Surr)	83		45 - 120

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

Lab Sample ID: MB 570-619752/6

Matrix: Water

Analysis Batch: 619752

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB							
	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac
GRO (C6-C10)	<10		10	ug/L			09/02/25 15:09		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil	Fac
4-Bromofluorobenzene (Surr)	77		38 - 134				09/02/25 15:09		1

Lab Sample ID: LCS 570-619752/4

Matrix: Water

Analysis Batch: 619752

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte		Spike	LCS	LCS				%Rec	
		Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (C4-C13)		400	357		ug/L		89	78 - 120	
Surrogate	%Recovery	Qualifier	Limits						
4-Bromofluorobenzene (Surr)	87		38 - 134						

Lab Sample ID: LCSD 570-619752/5

Matrix: Water

Analysis Batch: 619752

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte		Spike	LCSD	LCSD				%Rec		RPD	
		Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (C4-C13)		400	365		ug/L		91	78 - 120	2	10	
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	88		38 - 134								

Lab Sample ID: MRL 570-619752/3

Matrix: Water

Analysis Batch: 619752

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte		Spike	MRL	MRL				%Rec	
		Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (C4-C13)		10.0	8.68	J	ug/L		87	50 - 150	

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-168211-1
SDG: Weekly: Ka'amilo Wells Pump/Pump 2

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

Lab Sample ID: MRL 570-619752/3

Matrix: Water

Analysis Batch: 619752

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	MRL	MRL	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	80		38 - 134

Lab Sample ID: 380-168205-C-1 MS

Matrix: Water

Analysis Batch: 619752

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (C4-C13)	<10		400	384		ug/L		96	68 - 122
Surrogate	%Recovery	Qualifier	Limits	MS	MS				
4-Bromofluorobenzene (Surr)	90		38 - 134						

Lab Sample ID: 380-168205-C-1 MSD

Matrix: Water

Analysis Batch: 619752

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (C4-C13)	<10		400	355		ug/L		89	68 - 122	8	18
Surrogate	%Recovery	Qualifier	Limits	MSD	MSD						
4-Bromofluorobenzene (Surr)	87		38 - 134								

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

Lab Sample ID: MB 570-618766/1-A

Matrix: Water

Analysis Batch: 621987

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 618766

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<25		25	ug/L		08/29/25 09:40	09/07/25 03:44	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		08/29/25 09:40	09/07/25 03:44	1
C8-C18	<25		25	ug/L		08/29/25 09:40	09/07/25 03:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	112		60 - 130			08/29/25 09:40	09/07/25 03:44	1

Lab Sample ID: LCS 570-618766/2-A

Matrix: Water

Analysis Batch: 621987

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 618766

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
C10-C28	2000	2010		ug/L		101	56 - 127
Surrogate	%Recovery	Qualifier	Limits				
n-Octacosane (Surr)	101		60 - 130				

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-168211-1
SDG: Weekly: Ka'amilo Wells Pump/Pump 2

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

Lab Sample ID: LCSD 570-618766/3-A

Matrix: Water

Analysis Batch: 621987

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 618766

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28			2000	2130		ug/L		106	56 - 127	6	23
Surrogate	%Recovery	LCSD Qualifier	Limits								
n-Octacosane (Surr)	103		60 - 130								

Lab Sample ID: MRL 570-618766/4-A

Matrix: Water

Analysis Batch: 621987

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 618766

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
C10-C28			0.0200	0.0221	J	mg/L		111	50 - 150		
Surrogate	%Recovery	MRL Qualifier	Limits								
n-Octacosane (Surr)	87		60 - 130								

Lab Sample ID: 380-168000-C-1-A MS

Matrix: Water

Analysis Batch: 621987

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 618766

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
C10-C28	<26		2040	2350		ug/L		114	70 - 130		
Surrogate	%Recovery	MS Qualifier	Limits								
n-Octacosane (Surr)	99		60 - 130								

Lab Sample ID: 380-168000-C-1-B MSD

Matrix: Water

Analysis Batch: 621987

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 618766

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28	<26		2050	2140		ug/L		103	70 - 130	10	20
Surrogate	%Recovery	MSD Qualifier	Limits								
n-Octacosane (Surr)	111		60 - 130								

QC Association Summary

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

Job ID: 380-168211-1
SDG: Weekly: Ka'amilo Wells Pump/Pump 2

GC/MS Semi VOA

Prep Batch: 170954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-168211-1	Ka'amilo Wells Pump 1	Total/NA	Water	525.2	
380-168211-3	Ka'amilo Wells Pump 2	Total/NA	Water	525.2	
MB 380-170954/19-A	Method Blank	Total/NA	Water	525.2	
LCS 380-170954/21-A	Lab Control Sample	Total/NA	Water	525.2	
LCSD 380-170954/22-A	Lab Control Sample Dup	Total/NA	Water	525.2	
MRL 380-170954/20-A	Lab Control Sample	Total/NA	Water	525.2	
380-168205-I-1-A MS	Matrix Spike	Total/NA	Water	525.2	
380-168209-I-1-A DU	Duplicate	Total/NA	Water	525.2	

Analysis Batch: 171145

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 380-170954/19-A	Method Blank	Total/NA	Water	525.2	170954
LCS 380-170954/21-A	Lab Control Sample	Total/NA	Water	525.2	170954
LCSD 380-170954/22-A	Lab Control Sample Dup	Total/NA	Water	525.2	170954
380-168209-I-1-A DU	Duplicate	Total/NA	Water	525.2	170954

Analysis Batch: 171761

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-168211-1	Ka'amilo Wells Pump 1	Total/NA	Water	525.2	170954
380-168211-3	Ka'amilo Wells Pump 2	Total/NA	Water	525.2	170954
MB 380-170954/19-A	Method Blank	Total/NA	Water	525.2	170954
LCS 380-170954/21-A	Lab Control Sample	Total/NA	Water	525.2	170954
LCSD 380-170954/22-A	Lab Control Sample Dup	Total/NA	Water	525.2	170954
MRL 380-170954/20-A	Lab Control Sample	Total/NA	Water	525.2	170954
380-168205-I-1-A MS	Matrix Spike	Total/NA	Water	525.2	170954

Prep Batch: 617934

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-168211-1	Ka'amilo Wells Pump 1	Total/NA	Water	625.1	
380-168211-3	Ka'amilo Wells Pump 2	Total/NA	Water	625.1	
MB 570-617934/1-A	Method Blank	Total/NA	Water	625.1	
LCS 570-617934/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 570-617934/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	
380-168000-A-1-A MS	Matrix Spike	Total/NA	Water	625.1	
380-168000-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	625.1	
380-168205-A-1-A MS	Matrix Spike	Total/NA	Water	625.1	
380-168205-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	625.1	

Analysis Batch: 619301

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-168211-3	Ka'amilo Wells Pump 2	Total/NA	Water	625.1 SIM	617934
MB 570-617934/1-A	Method Blank	Total/NA	Water	625.1 SIM	617934
LCS 570-617934/2-A	Lab Control Sample	Total/NA	Water	625.1 SIM	617934
LCSD 570-617934/3-A	Lab Control Sample Dup	Total/NA	Water	625.1 SIM	617934
380-168000-A-1-A MS	Matrix Spike	Total/NA	Water	625.1 SIM	617934
380-168000-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	625.1 SIM	617934

Analysis Batch: 619556

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-168211-1	Ka'amilo Wells Pump 1	Total/NA	Water	625.1 SIM	617934
380-168205-A-1-A MS	Matrix Spike	Total/NA	Water	625.1 SIM	617934

Eurofins Eaton Analytical Pomona

QC Association Summary

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

Job ID: 380-168211-1
SDG: Weekly: Ka'amilo Wells Pump/Pump 2

GC/MS Semi VOA (Continued)

Analysis Batch: 619556 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-168205-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	625.1 SIM	617934

Analysis Batch: 623413

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-168211-1	Ka'amilo Wells Pump 1	Total/NA	Water	625.1	617934
380-168211-3	Ka'amilo Wells Pump 2	Total/NA	Water	625.1	617934
MB 570-617934/1-A	Method Blank	Total/NA	Water	625.1	617934

GC VOA

Analysis Batch: 619752

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-168211-1	Ka'amilo Wells Pump 1	Total/NA	Water	8015B GRO LL	
380-168211-2	TB: Ka'amilo Wells Pump 1	Total/NA	Water	8015B GRO LL	
380-168211-3	Ka'amilo Wells Pump 2	Total/NA	Water	8015B GRO LL	
380-168211-4	TB: Ka'amilo Wells Pump 2	Total/NA	Water	8015B GRO LL	
MB 570-619752/6	Method Blank	Total/NA	Water	8015B GRO LL	
LCS 570-619752/4	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-619752/5	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	
MRL 570-619752/3	Lab Control Sample	Total/NA	Water	8015B GRO LL	
380-168205-C-1 MS	Matrix Spike	Total/NA	Water	8015B GRO LL	
380-168205-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8015B GRO LL	

GC Semi VOA

Prep Batch: 618766

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-168211-1	Ka'amilo Wells Pump 1	Total/NA	Water	3510C	
380-168211-3	Ka'amilo Wells Pump 2	Total/NA	Water	3510C	
MB 570-618766/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-618766/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-618766/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-618766/4-A	Lab Control Sample	Total/NA	Water	3510C	
380-168000-C-1-A MS	Matrix Spike	Total/NA	Water	3510C	
380-168000-C-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

Analysis Batch: 621987

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-168211-1	Ka'amilo Wells Pump 1	Total/NA	Water	8015B	618766
380-168211-3	Ka'amilo Wells Pump 2	Total/NA	Water	8015B	618766
MB 570-618766/1-A	Method Blank	Total/NA	Water	8015B	618766
LCS 570-618766/2-A	Lab Control Sample	Total/NA	Water	8015B	618766
LCSD 570-618766/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	618766
MRL 570-618766/4-A	Lab Control Sample	Total/NA	Water	8015B	618766
380-168000-C-1-A MS	Matrix Spike	Total/NA	Water	8015B	618766
380-168000-C-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	8015B	618766

Lab Chronicle

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

Job ID: 380-168211-1
SDG: Weekly: Ka'amilo Wells Pump/Pump 2

Client Sample ID: Ka'amilo Wells Pump 1

Lab Sample ID: 380-168211-1

Date Collected: 08/25/25 12:40

Matrix: Water

Date Received: 08/27/25 10:04

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			170954	IQ42	EA POM	08/27/25 14:18
Total/NA	Analysis	525.2		1	171761	Q8LA	EA POM	09/01/25 13:16
Total/NA	Prep	625.1			617934	S4EA	EET CAL 4	08/28/25 08:30
Total/NA	Analysis	625.1		1	623413	PQS1	EET CAL 4	09/10/25 14:06
Total/NA	Prep	625.1			617934	S4EA	EET CAL 4	08/28/25 08:30
Total/NA	Analysis	625.1 SIM		1	619556	PQS1	EET CAL 4	09/02/25 12:41
Total/NA	Analysis	8015B GRO LL		1	619752	A9VE	EET CAL 4	09/03/25 00:48
Total/NA	Prep	3510C			618766	TVD6	EET CAL 4	08/29/25 09:41
Total/NA	Analysis	8015B		1	621987	H6FE	EET CAL 4	09/07/25 08:22

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

Lab Sample ID: 380-168211-2

Date Collected: 08/25/25 12:40

Matrix: Water

Date Received: 08/27/25 10:04

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	619752	A9VE	EET CAL 4	09/02/25 23:36

Client Sample ID: Ka'amilo Wells Pump 2

Lab Sample ID: 380-168211-3

Date Collected: 08/25/25 13:41

Matrix: Water

Date Received: 08/27/25 10:04

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			170954	IQ42	EA POM	08/27/25 14:18
Total/NA	Analysis	525.2		1	171761	Q8LA	EA POM	09/01/25 13:36
Total/NA	Prep	625.1			617934	S4EA	EET CAL 4	08/28/25 08:30
Total/NA	Analysis	625.1		1	623413	PQS1	EET CAL 4	09/10/25 14:28
Total/NA	Prep	625.1			617934	S4EA	EET CAL 4	08/28/25 08:30
Total/NA	Analysis	625.1 SIM		1	619301	J7WE	EET CAL 4	08/30/25 23:52
Total/NA	Analysis	8015B GRO LL		1	619752	A9VE	EET CAL 4	09/03/25 01:13
Total/NA	Prep	3510C			618766	TVD6	EET CAL 4	08/29/25 09:41
Total/NA	Analysis	8015B		1	621987	H6FE	EET CAL 4	09/07/25 08:43

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

Lab Sample ID: 380-168211-4

Date Collected: 08/25/25 13:41

Matrix: Water

Date Received: 08/27/25 10:04

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	619752	A9VE	EET CAL 4	09/03/25 00:00

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: 380-168211-1
SDG: Weekly: Ka'amilo Wells Pump/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: 380-168211-1
SDG: Weekly: Ka'amilo Wells Pump/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: 380-168211-1
SDG: Weekly: Ka'amilo Wells Pump/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: 380-168211-1
SDG: Weekly: Ka'amilo Wells Pump/Pump 2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
380-168211-1	Ka'amilo Wells Pump 1	Water	08/25/25 12:40	08/27/25 10:04	Hawaii
380-168211-2	TB: Ka'amilo Wells Pump 1	Water	08/25/25 12:40	08/27/25 10:04	Hawaii
380-168211-3	Ka'amilo Wells Pump 2	Water	08/25/25 13:41	08/27/25 10:04	Hawaii
380-168211-4	TB: Ka'amilo Wells Pump 2	Water	08/25/25 13:41	08/27/25 10:04	Hawaii

Client Information			City & County of Honolulu			Analysis Requested			Carrier Tracking No(s)			COC No:		
Client Contact			City			Lab PM:			Arada, Rachelle			380-28005-2757 1		
Mr Kirk Iwamoto			Honolulu			E-Mail:			Rachelle.Arada@eurofinsus.com			Page:		
Company			State, Zip:			PWSID:			State of Origin:			Page 1 of 1		
City & County of Honolulu			Hawaii			Due Date Requested:			Analysis Requested			Job #:		
Address:			630 South Beretania Street Chemistry Lab			TAT Requested (days):			Preservation Codes:			R - NaThioSO4		
City			Honolulu			Compliance Project: ☐ Yes ☐ No			525.2.PREC - (MOD) 525plus Plus TICs			RA - NaThioHCl		
State, Zip:			HI, 96843			PO #:			525.1.DW.PREC - 527 1 Full Lait			Q - Na2SO3		
Phone:			808-748-5840 (Tel)			WO #:			525.2.PREC - (MOD) 525plus Plus TICs			Y - Trizma		
Email:			kiwamoto@hbws.org			Project #:			525.1.DW.PREC - 527 1 Full Lait			I - NH4 Acetate		
Project Name:			RED-HILL/HBWS Sites Event Desc: RUSH Weekly Red Hill			SSOW#:			525.1.DW.PREC - 527 1 Full Lait			Other:		
Site:			Hawaii			Sample Date			Sample Time			Sample Type (G=grab)		
Sample Identification			Matrix (Water, Specific, Other)			Preservation Code			Field Filtered Sample (Yes or No)			Perform MS/MSD (Yes or No)		
Ka'amilo Wells Pump 1			Water			G			25-Aug-2025			1240		
Ka'amilo Wells Pump 1 (Matrix Spike)			Water											
Ka'amilo Wells Pump 1 (Matrix Spike Duplicate)			Water			8/25/25								
TB: Ka'amilo Wells Pump 1			Water			e			25-Aug-2025			1240		
Ka'amilo Wells Pump 2			Water			G			25-Aug-2025			1341		
Ka'amilo Wells Pump 2 (Matrix Spike)			Water											
Ka'amilo Wells Pump 2 (Matrix Spike Duplicate)			Water											
TB: Ka'amilo Wells Pump 2			Water						25-Aug-2025			1341		
Possible Hazard Identification			Radiological			Unknown			Poison B			Flammable		
Non-Hazard			Skin Irritant			Deliverable Requested 1, II, III, IV, Other (specify)			Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			Return To Client		
Empty Kit Relinquished by			Date:			Time:			Received by			Company		
Relinquished by			Date/Time:			Date/Time:			Date/Time:			Date/Time:		
Custody Seal No.			Custody Seal No.			Custody Seal No.			Custody Seal No.			Custody Seal No.		



Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-168211-1

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

Login Number: 168211

List Number: 1

Creator: Segura, Ryan

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).	True	
Samples do not require splitting or compositing.	True	
Container provided by EEA	True	

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-168211-1

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

Login Number: 168211

List Number: 2

Creator: Khana, Piyush

List Source: Eurofins Calscience

List Creation: 08/27/25 06:49 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.4
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	