

ANALYTICAL REPORT

PREPARED FOR

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JOB DESCRIPTION

RED-HILL
Weekly: Aiea Gulch Wells Pump 1
RUSH Weekly Red Hill

JOB NUMBER

380-156001-1

Eurofins Eaton Analytical Pomona

Job Notes

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

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

Compliance Statement

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

Authorization



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Definitions/Glossary

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

Job ID: 380-156001-1
SDG: Weekly: Aiea Gulch Wells Pump 1

Qualifiers

GC/MS Semi VOA

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

GC/MS Semi VOA TICs

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

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.

Glossary

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

Case Narrative

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

Job ID: 380-156001-1

Job ID: 380-156001-1

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Job Narrative 380-156001-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 6/18/2025 9:43 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.4°C and 3.5°C.

Receipt Exceptions

GC/MS Semi VOA

Method 625.1: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 570-586237. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

Method 625.1_SIM

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

Gasoline Range Organics

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

Diesel Range Organics

Method 8015B_DRO_LL_CS: Surrogate recovery for the following sample was outside the upper control limit: AIEA GULCH WELLS PUMP 1 (331-201-TP071) (380-156001-1). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

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: 380-156001-1
SDG: Weekly: Aiea Gulch Wells Pump 1

**Client Sample ID: AIEA GULCH WELLS PUMP 1
(331-201-TP071)**
PWSID Number: HI0000331

Lab Sample ID: 380-156001-1

☐ No Detections.

**Client Sample ID: TB: AIEA GULCH WELLS PUMP 1
(331-201-TP071)**

Lab Sample ID: 380-156001-2

☐ No Detections.

This Detection Summary does not include radiochemical test results.

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Client Sample Results

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

Job ID: 380-156001-1
SDG: Weekly: Aiea Gulch Wells Pump 1

**Client Sample ID: AIEA GULCH WELLS PUMP 1
(331-201-TP071)**

Lab Sample ID: 380-156001-1

Date Collected: 06/16/25 09:45

Matrix: Drinking Water

Date Received: 06/18/25 09:43

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.097		0.097	ug/L		06/19/25 08:38	06/20/25 13:42	1
2,4'-DDD	<0.097		0.097	ug/L		06/19/25 08:38	06/20/25 13:42	1
2,4'-DDE	<0.097		0.097	ug/L		06/19/25 08:38	06/20/25 13:42	1
2,4'-DDT	<0.097		0.097	ug/L		06/19/25 08:38	06/20/25 13:42	1
2,4-Dinitrotoluene	<0.097		0.097	ug/L		06/19/25 08:38	06/20/25 13:42	1
2,6-Dinitrotoluene	<0.097		0.097	ug/L		06/19/25 08:38	06/20/25 13:42	1
2-Methylnaphthalene	<0.097		0.097	ug/L		06/19/25 08:38	06/20/25 13:42	1
4,4'-DDD	<0.097		0.097	ug/L		06/19/25 08:38	06/20/25 13:42	1
4,4'-DDE	<0.097		0.097	ug/L		06/19/25 08:38	06/20/25 13:42	1
4,4'-DDT	<0.097		0.097	ug/L		06/19/25 08:38	06/20/25 13:42	1
Acenaphthene	<0.097		0.097	ug/L		06/19/25 08:38	06/20/25 13:42	1
Acenaphthylene	<0.097		0.097	ug/L		06/19/25 08:38	06/20/25 13:42	1
Acetochlor	<0.097		0.097	ug/L		06/19/25 08:38	06/20/25 13:42	1
Alachlor	<0.049		0.049	ug/L		06/19/25 08:38	06/20/25 13:42	1
alpha-BHC	<0.097		0.097	ug/L		06/19/25 08:38	06/20/25 13:42	1
alpha-Chlordane	<0.049		0.049	ug/L		06/19/25 08:38	06/20/25 13:42	1
Anthracene	<0.019		0.019	ug/L		06/19/25 08:38	06/20/25 13:42	1
Atrazine	<0.049		0.049	ug/L		06/19/25 08:38	06/20/25 13:42	1
Benz(a)anthracene	<0.049		0.049	ug/L		06/19/25 08:38	06/20/25 13:42	1
Benzo[a]pyrene	<0.019		0.019	ug/L		06/19/25 08:38	06/20/25 13:42	1
Benzo[b]fluoranthene	<0.019		0.019	ug/L		06/19/25 08:38	06/20/25 13:42	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		06/19/25 08:38	06/20/25 13:42	1
Benzo[k]fluoranthene	<0.019		0.019	ug/L		06/19/25 08:38	06/20/25 13:42	1
beta-BHC	<0.097		0.097	ug/L		06/19/25 08:38	06/20/25 13:42	1
Bis(2-ethylhexyl) phthalate	<0.58		0.58	ug/L		06/19/25 08:38	06/20/25 13:42	1
Bromacil	<0.097		0.097	ug/L		06/19/25 08:38	06/20/25 13:42	1
Butachlor	<0.049		0.049	ug/L		06/19/25 08:38	06/20/25 13:42	1
Butylbenzylphthalate	<0.49		0.49	ug/L		06/19/25 08:38	06/20/25 13:42	1
Chlorobenzilate	<0.097		0.097	ug/L		06/19/25 08:38	06/20/25 13:42	1
Chloroneb	<0.097		0.097	ug/L		06/19/25 08:38	06/20/25 13:42	1
Chlorothalonil (Draconil, Bravo)	<0.097		0.097	ug/L		06/19/25 08:38	06/20/25 13:42	1
Chlorpyrifos	<0.049		0.049	ug/L		06/19/25 08:38	06/20/25 13:42	1
Chrysene	<0.019		0.019	ug/L		06/19/25 08:38	06/20/25 13:42	1
delta-BHC	<0.097		0.097	ug/L		06/19/25 08:38	06/20/25 13:42	1
Di(2-ethylhexyl)adipate	<0.58		0.58	ug/L		06/19/25 08:38	06/20/25 13:42	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		06/19/25 08:38	06/20/25 13:42	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		06/19/25 08:38	06/20/25 13:42	1
Dieldrin	<0.0097		0.0097	ug/L		06/19/25 08:38	06/20/25 13:42	1
Diethylphthalate	<0.49		0.49	ug/L		06/19/25 08:38	06/20/25 13:42	1
Dimethylphthalate	<0.49		0.49	ug/L		06/19/25 08:38	06/20/25 13:42	1
Di-n-butyl phthalate	<0.97		0.97	ug/L		06/19/25 08:38	06/20/25 13:42	1
Di-n-octyl phthalate	<0.097		0.097	ug/L		06/19/25 08:38	06/20/25 13:42	1
Endosulfan I (Alpha)	<0.097		0.097	ug/L		06/19/25 08:38	06/20/25 13:42	1
Endosulfan II (Beta)	<0.097		0.097	ug/L		06/19/25 08:38	06/20/25 13:42	1
Endosulfan sulfate	<0.097		0.097	ug/L		06/19/25 08:38	06/20/25 13:42	1
Endrin	<0.0097		0.0097	ug/L		06/19/25 08:38	06/20/25 13:42	1
Endrin aldehyde	<0.097		0.097	ug/L		06/19/25 08:38	06/20/25 13:42	1
EPTC	<0.097		0.097	ug/L		06/19/25 08:38	06/20/25 13:42	1

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Client Sample Results

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

Job ID: 380-156001-1
SDG: Weekly: Aiea Gulch Wells Pump 1

**Client Sample ID: AIEA GULCH WELLS PUMP 1
(331-201-TP071)**

Lab Sample ID: 380-156001-1

Date Collected: 06/16/25 09:45

Matrix: Drinking Water

Date Received: 06/18/25 09:43

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.097		0.097	ug/L		06/19/25 08:38	06/20/25 13:42	1
Fluorene	<0.049		0.049	ug/L		06/19/25 08:38	06/20/25 13:42	1
gamma-Chlordane	<0.049		0.049	ug/L		06/19/25 08:38	06/20/25 13:42	1
Heptachlor	<0.0097		0.0097	ug/L		06/19/25 08:38	06/20/25 13:42	1
Heptachlor epoxide (isomer B)	<0.0097		0.0097	ug/L		06/19/25 08:38	06/20/25 13:42	1
Hexachlorobenzene	<0.049		0.049	ug/L		06/19/25 08:38	06/20/25 13:42	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		06/19/25 08:38	06/20/25 13:42	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		06/19/25 08:38	06/20/25 13:42	1
Isophorone	<0.097		0.097	ug/L		06/19/25 08:38	06/20/25 13:42	1
Lindane	<0.0097		0.0097	ug/L		06/19/25 08:38	06/20/25 13:42	1
Malathion	<0.097		0.097	ug/L		06/19/25 08:38	06/20/25 13:42	1
Methoxychlor	<0.049		0.049	ug/L		06/19/25 08:38	06/20/25 13:42	1
Metolachlor	<0.049		0.049	ug/L		06/19/25 08:38	06/20/25 13:42	1
Molinate	<0.097		0.097	ug/L		06/19/25 08:38	06/20/25 13:42	1
Naphthalene	<0.097		0.097	ug/L		06/19/25 08:38	06/20/25 13:42	1
Parathion	<0.097		0.097	ug/L		06/19/25 08:38	06/20/25 13:42	1
Pendimethalin (Penoxaline)	<0.097		0.097	ug/L		06/19/25 08:38	06/20/25 13:42	1
Phenanthrene	<0.039		0.039	ug/L		06/19/25 08:38	06/20/25 13:42	1
Propachlor	<0.049		0.049	ug/L		06/19/25 08:38	06/20/25 13:42	1
Pyrene	<0.049		0.049	ug/L		06/19/25 08:38	06/20/25 13:42	1
Simazine	<0.049		0.049	ug/L		06/19/25 08:38	06/20/25 13:42	1
Terbacil	<0.097		0.097	ug/L		06/19/25 08:38	06/20/25 13:42	1
Terbutylazine	<0.097		0.097	ug/L		06/19/25 08:38	06/20/25 13:42	1
Thiobencarb	<0.097		0.097	ug/L		06/19/25 08:38	06/20/25 13:42	1
Total Permethrin (mixed isomers)	<0.19		0.19	ug/L		06/19/25 08:38	06/20/25 13:42	1
trans-Nonachlor	<0.049		0.049	ug/L		06/19/25 08:38	06/20/25 13:42	1
Trifluralin	<0.097		0.097	ug/L		06/19/25 08:38	06/20/25 13:42	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	06/19/25 08:38	06/20/25 13:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	102		70 - 130	06/19/25 08:38	06/20/25 13:42	1
Perylene-d12	77		70 - 130	06/19/25 08:38	06/20/25 13:42	1
Triphenylphosphate	110		70 - 130	06/19/25 08:38	06/20/25 13:42	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.19		0.19	ug/L		06/19/25 05:18	06/29/25 20:45	1
2-Methylnaphthalene	<0.19		0.19	ug/L		06/19/25 05:18	06/29/25 20:45	1
Acenaphthene	<0.19		0.19	ug/L		06/19/25 05:18	06/29/25 20:45	1
Acenaphthylene	<0.19		0.19	ug/L		06/19/25 05:18	06/29/25 20:45	1
Anthracene	<0.19		0.19	ug/L		06/19/25 05:18	06/29/25 20:45	1
Benzo[a]anthracene	<0.19		0.19	ug/L		06/19/25 05:18	06/29/25 20:45	1
Benzo[a]pyrene	<0.19		0.19	ug/L		06/19/25 05:18	06/29/25 20:45	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		06/19/25 05:18	06/29/25 20:45	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		06/19/25 05:18	06/29/25 20:45	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		06/19/25 05:18	06/29/25 20:45	1
Chrysene	<0.19		0.19	ug/L		06/19/25 05:18	06/29/25 20:45	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-156001-1
SDG: Weekly: Aiea Gulch Wells Pump 1

**Client Sample ID: AIEA GULCH WELLS PUMP 1
(331-201-TP071)**

Lab Sample ID: 380-156001-1

Date Collected: 06/16/25 09:45

Matrix: Drinking Water

Date Received: 06/18/25 09:43

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	<0.19		0.19	ug/L		06/19/25 05:18	06/29/25 20:45	1
Fluoranthene	<0.19		0.19	ug/L		06/19/25 05:18	06/29/25 20:45	1
Fluorene	<0.19		0.19	ug/L		06/19/25 05:18	06/29/25 20:45	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		06/19/25 05:18	06/29/25 20:45	1
Naphthalene	<0.19		0.19	ug/L		06/19/25 05:18	06/29/25 20:45	1
Phenanthrene	<0.19		0.19	ug/L		06/19/25 05:18	06/29/25 20:45	1
Pyrene	<0.19		0.19	ug/L		06/19/25 05:18	06/29/25 20:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	89		28 - 127	06/19/25 05:18	06/29/25 20:45	1
2-Fluorobiphenyl (Surr)	88		31 - 120	06/19/25 05:18	06/29/25 20:45	1
2-Fluorophenol (Surr)	47		17 - 120	06/19/25 05:18	06/29/25 20:45	1
Nitrobenzene-d5 (Surr)	83		27 - 120	06/19/25 05:18	06/29/25 20:45	1
Phenol-d6 (Surr)	27		10 - 120	06/19/25 05:18	06/29/25 20:45	1
p-Terphenyl-d14 (Surr)	91		45 - 120	06/19/25 05:18	06/29/25 20:45	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	06/19/25 05:18	06/30/25 16:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	63		33 - 139	06/19/25 05:18	06/30/25 16:42	1
2-Fluorobiphenyl (Surr)	84		33 - 126	06/19/25 05:18	06/30/25 16:42	1
2-Fluorophenol (Surr)	45		12 - 120	06/19/25 05:18	06/30/25 16:42	1
Nitrobenzene-d5 (Surr)	81		36 - 120	06/19/25 05:18	06/30/25 16:42	1
Phenol-d6 (Surr)	26		10 - 120	06/19/25 05:18	06/30/25 16:42	1
p-Terphenyl-d14 (Surr)	82		47 - 131	06/19/25 05:18	06/30/25 16:42	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			06/26/25 19:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		38 - 134		06/26/25 19:32	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<26		26	ug/L		06/23/25 14:13	06/30/25 21:02	1
Motor Oil Range Organics [C24-C36]	<26		26	ug/L		06/23/25 14:13	06/30/25 21:02	1
C8-C18	<26		26	ug/L		06/23/25 14:13	06/30/25 21:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	131	S1+	60 - 130	06/23/25 14:13	06/30/25 21:02	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-156001-1
SDG: Weekly: Aiea Gulch Wells Pump 1

**Client Sample ID: TB: AIEA GULCH WELLS PUMP 1
(331-201-TP071)**

Lab Sample ID: 380-156001-2

Date Collected: 06/16/25 09:45

Matrix: Water

Date Received: 06/18/25 09:43

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			06/26/25 14:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		38 - 134				06/26/25 14:31	1

Action Limit Summary

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

Job ID: 380-156001-1
SDG: Weekly: Aiea Gulch Wells Pump 1

Client Sample ID: AIEA GULCH WELLS PUMP 1
(331-201-TP071)
PWSID Number: HI0000331

Lab Sample ID: 380-156001-1

Compliance Check

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

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

Surrogate Summary

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

Job ID: 380-156001-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Matrix: Drinking Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		2NMX (70-130)	PRY (70-130)	TPP (70-130)
380-156001-1	AIEA GULCH WELLS PUMP 1 (	102	77	110

Surrogate Legend

2NMX = 2-Nitro-m-xylene

PRY = Perylene-d12

TPP = Triphenylphosphate

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		2NMX (70-130)	PRY (70-130)	TPP (70-130)
380-155975-B-1-A DU	Duplicate	96	88	103
380-155975-D-2-A MS	Matrix Spike	99	91	110
LCS 380-158776/23-A	Lab Control Sample	98	96	109
LCSD 380-158776/24-A	Lab Control Sample Dup	96	96	109
MB 380-158776/21-A	Method Blank	100	74	103
MRL 380-158776/22-A	Lab Control Sample	97	90	105

Surrogate Legend

2NMX = 2-Nitro-m-xylene

PRY = Perylene-d12

TPP = Triphenylphosphate

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

Matrix: Drinking Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (33-139)	FBP (33-126)	2FP (12-120)	NBZ (36-120)	PHL6 (10-120)	TPHd14 (47-131)
380-156001-1	AIEA GULCH WELLS PUMP 1 (	63	84	45	81	26	82

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)

FBP = 2-Fluorobiphenyl (Surr)

2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

PHL6 = Phenol-d6 (Surr)

TPHd14 = p-Terphenyl-d14 (Surr)

Method: 625.1 - 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)
MB 570-586237/1-A	Method Blank	60	75	48	79	26	77

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)

FBP = 2-Fluorobiphenyl (Surr)

2FP = 2-Fluorophenol (Surr)

Eurofins Eaton Analytical Pomona

Surrogate Summary

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

NBZ = Nitrobenzene-d5 (Surr)
PHL6 = Phenol-d6 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

Job ID: 380-156001-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Matrix: Drinking Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (28-127)	FBP (31-120)	2FP (17-120)	NBZ (27-120)	PHL6 (10-120)	TPHd14 (45-120)
380-156001-1	AIEA GULCH WELLS PUMP 1 (	89	88	47	83	27	91

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)
LCS 570-586237/2-A	Lab Control Sample	82	87	56	68	34	89
LCSD 570-586237/3-A	Lab Control Sample Dup	75	77	51	64	32	79
MB 570-586237/1-A	Method Blank	65	73	42	70	25	81

Surrogate Legend

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

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

Matrix: Drinking Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		BFB1 (38-134)					
380-156001-1	AIEA GULCH WELLS PUMP 1 (	83					

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		BFB1 (38-134)					
380-155987-A-1 MS	Matrix Spike	88					
380-155987-A-1 MSD	Matrix Spike Duplicate	88					
380-156001-2	TB: AIEA GULCH WELLS PUMF	78					
	1 (331-201-TP071)						
LCS 570-589729/4	Lab Control Sample	90					

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Surrogate Summary

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

Job ID: 380-156001-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (38-134)
LCSD 570-589729/5	Lab Control Sample Dup	88
MB 570-589729/6	Method Blank	78
MRL 570-589729/3	Lab Control Sample	78

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

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

Matrix: Drinking Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	OTCSN1 (60-130)
380-156001-1	AIEA GULCH WELLS PUMP 1 (	131 S1+

Surrogate Legend

OTCSN = n-Octacosane (Surr)

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	OTCSN1 (60-130)
380-155987-C-1-A MS	Matrix Spike	102
380-155987-C-1-B MSD	Matrix Spike Duplicate	112
LCS 570-588177/2-A	Lab Control Sample	103
LCSD 570-588177/3-A	Lab Control Sample Dup	88
MB 570-588177/1-A	Method Blank	106
MRL 570-588177/4-A	Lab Control Sample	101

Surrogate Legend

OTCSN = n-Octacosane (Surr)

QC Sample Results

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

Job ID: 380-156001-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: MB 380-158776/21-A

Matrix: Water

Analysis Batch: 158990

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 158776

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.098		0.098	ug/L		06/19/25 08:38	06/20/25 11:01	1
2,4'-DDD	<0.098		0.098	ug/L		06/19/25 08:38	06/20/25 11:01	1
2,4'-DDE	<0.098		0.098	ug/L		06/19/25 08:38	06/20/25 11:01	1
2,4'-DDT	<0.098		0.098	ug/L		06/19/25 08:38	06/20/25 11:01	1
2,4-Dinitrotoluene	<0.098		0.098	ug/L		06/19/25 08:38	06/20/25 11:01	1
2,6-Dinitrotoluene	<0.098		0.098	ug/L		06/19/25 08:38	06/20/25 11:01	1
2-Methylnaphthalene	<0.098		0.098	ug/L		06/19/25 08:38	06/20/25 11:01	1
4,4'-DDD	<0.098		0.098	ug/L		06/19/25 08:38	06/20/25 11:01	1
4,4'-DDE	<0.098		0.098	ug/L		06/19/25 08:38	06/20/25 11:01	1
4,4'-DDT	<0.098		0.098	ug/L		06/19/25 08:38	06/20/25 11:01	1
Acenaphthene	<0.098		0.098	ug/L		06/19/25 08:38	06/20/25 11:01	1
Acenaphthylene	<0.098		0.098	ug/L		06/19/25 08:38	06/20/25 11:01	1
Acetochlor	<0.098		0.098	ug/L		06/19/25 08:38	06/20/25 11:01	1
Alachlor	<0.049		0.049	ug/L		06/19/25 08:38	06/20/25 11:01	1
alpha-BHC	<0.098		0.098	ug/L		06/19/25 08:38	06/20/25 11:01	1
alpha-Chlordane	<0.049		0.049	ug/L		06/19/25 08:38	06/20/25 11:01	1
Anthracene	<0.020		0.020	ug/L		06/19/25 08:38	06/20/25 11:01	1
Atrazine	<0.049		0.049	ug/L		06/19/25 08:38	06/20/25 11:01	1
Benz(a)anthracene	<0.049		0.049	ug/L		06/19/25 08:38	06/20/25 11:01	1
Benzo[a]pyrene	<0.020		0.020	ug/L		06/19/25 08:38	06/20/25 11:01	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		06/19/25 08:38	06/20/25 11:01	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		06/19/25 08:38	06/20/25 11:01	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		06/19/25 08:38	06/20/25 11:01	1
beta-BHC	<0.098		0.098	ug/L		06/19/25 08:38	06/20/25 11:01	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		06/19/25 08:38	06/20/25 11:01	1
Bromacil	<0.098		0.098	ug/L		06/19/25 08:38	06/20/25 11:01	1
Butachlor	<0.049		0.049	ug/L		06/19/25 08:38	06/20/25 11:01	1
Butylbenzylphthalate	<0.49		0.49	ug/L		06/19/25 08:38	06/20/25 11:01	1
Chlorobenzilate	<0.098		0.098	ug/L		06/19/25 08:38	06/20/25 11:01	1
Chloroneb	<0.098		0.098	ug/L		06/19/25 08:38	06/20/25 11:01	1
Chlorothalonil (Draconil, Bravo)	<0.098		0.098	ug/L		06/19/25 08:38	06/20/25 11:01	1
Chlorpyrifos	<0.049		0.049	ug/L		06/19/25 08:38	06/20/25 11:01	1
Chrysene	<0.020		0.020	ug/L		06/19/25 08:38	06/20/25 11:01	1
delta-BHC	<0.098		0.098	ug/L		06/19/25 08:38	06/20/25 11:01	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		06/19/25 08:38	06/20/25 11:01	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		06/19/25 08:38	06/20/25 11:01	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		06/19/25 08:38	06/20/25 11:01	1
Dieldrin	<0.0098		0.0098	ug/L		06/19/25 08:38	06/20/25 11:01	1
Diethylphthalate	<0.49		0.49	ug/L		06/19/25 08:38	06/20/25 11:01	1
Dimethylphthalate	<0.49		0.49	ug/L		06/19/25 08:38	06/20/25 11:01	1
Di-n-butyl phthalate	<0.98		0.98	ug/L		06/19/25 08:38	06/20/25 11:01	1
Di-n-octyl phthalate	<0.098		0.098	ug/L		06/19/25 08:38	06/20/25 11:01	1
Endosulfan I (Alpha)	<0.098		0.098	ug/L		06/19/25 08:38	06/20/25 11:01	1
Endosulfan II (Beta)	<0.098		0.098	ug/L		06/19/25 08:38	06/20/25 11:01	1
Endosulfan sulfate	<0.098		0.098	ug/L		06/19/25 08:38	06/20/25 11:01	1
Endrin	<0.0098		0.0098	ug/L		06/19/25 08:38	06/20/25 11:01	1
Endrin aldehyde	<0.098		0.098	ug/L		06/19/25 08:38	06/20/25 11:01	1
EPTC	<0.098		0.098	ug/L		06/19/25 08:38	06/20/25 11:01	1

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QC Sample Results

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

Job ID: 380-156001-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: MB 380-158776/21-A

Matrix: Water

Analysis Batch: 158990

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 158776

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.098		0.098	ug/L		06/19/25 08:38	06/20/25 11:01	1
Fluorene	<0.049		0.049	ug/L		06/19/25 08:38	06/20/25 11:01	1
gamma-Chlordane	<0.049		0.049	ug/L		06/19/25 08:38	06/20/25 11:01	1
Heptachlor	<0.0098		0.0098	ug/L		06/19/25 08:38	06/20/25 11:01	1
Heptachlor epoxide (isomer B)	<0.0098		0.0098	ug/L		06/19/25 08:38	06/20/25 11:01	1
Hexachlorobenzene	<0.049		0.049	ug/L		06/19/25 08:38	06/20/25 11:01	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		06/19/25 08:38	06/20/25 11:01	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		06/19/25 08:38	06/20/25 11:01	1
Isophorone	<0.098		0.098	ug/L		06/19/25 08:38	06/20/25 11:01	1
Lindane	<0.0098		0.0098	ug/L		06/19/25 08:38	06/20/25 11:01	1
Malathion	<0.098		0.098	ug/L		06/19/25 08:38	06/20/25 11:01	1
Methoxychlor	<0.049		0.049	ug/L		06/19/25 08:38	06/20/25 11:01	1
Metolachlor	<0.049		0.049	ug/L		06/19/25 08:38	06/20/25 11:01	1
Molinate	<0.098		0.098	ug/L		06/19/25 08:38	06/20/25 11:01	1
Naphthalene	<0.098		0.098	ug/L		06/19/25 08:38	06/20/25 11:01	1
Parathion	<0.098		0.098	ug/L		06/19/25 08:38	06/20/25 11:01	1
Pendimethalin (Penoxaline)	<0.098		0.098	ug/L		06/19/25 08:38	06/20/25 11:01	1
Phenanthrene	<0.039		0.039	ug/L		06/19/25 08:38	06/20/25 11:01	1
Propachlor	<0.049		0.049	ug/L		06/19/25 08:38	06/20/25 11:01	1
Pyrene	<0.049		0.049	ug/L		06/19/25 08:38	06/20/25 11:01	1
Simazine	<0.049		0.049	ug/L		06/19/25 08:38	06/20/25 11:01	1
Terbacil	<0.098		0.098	ug/L		06/19/25 08:38	06/20/25 11:01	1
Terbutylazine	<0.098		0.098	ug/L		06/19/25 08:38	06/20/25 11:01	1
Thiobencarb	<0.098		0.098	ug/L		06/19/25 08:38	06/20/25 11:01	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		06/19/25 08:38	06/20/25 11:01	1
trans-Nonachlor	<0.049		0.049	ug/L		06/19/25 08:38	06/20/25 11:01	1
Trifluralin	<0.098		0.098	ug/L		06/19/25 08:38	06/20/25 11:01	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Cyclohexasiloxane, dodecamethyl-	0.625	T J N	ug/L		3.91	540-97-6	06/19/25 08:38	06/20/25 11:01	1
9-Octadecenamide, (Z)-	2.01	T J N	ug/L		7.94	301-02-0	06/19/25 08:38	06/20/25 11:01	1
9-Octadecenamide, (Z)-	1.78	T J N	ug/L		10.49	301-02-0	06/19/25 08:38	06/20/25 11:01	1
Unknown	0.619	T J	ug/L		10.94	N/A	06/19/25 08:38	06/20/25 11:01	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	100		70 - 130	06/19/25 08:38	06/20/25 11:01	1
Perylene-d12	74		70 - 130	06/19/25 08:38	06/20/25 11:01	1
Triphenylphosphate	103		70 - 130	06/19/25 08:38	06/20/25 11:01	1

Lab Sample ID: LCS 380-158776/23-A

Matrix: Water

Analysis Batch: 158990

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 158776

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	1.96	1.97		ug/L		101	70 - 130
2,4'-DDD	1.96	2.06		ug/L		105	70 - 130
2,4'-DDE	1.96	2.08		ug/L		106	70 - 130
2,4'-DDT	1.96	1.95		ug/L		99	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-156001-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: LCS 380-158776/23-A

Matrix: Water

Analysis Batch: 158990

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 158776

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4-Dinitrotoluene	1.96	2.08		ug/L		106	70 - 130
2,6-Dinitrotoluene	1.96	2.08		ug/L		106	70 - 130
2-Methylnaphthalene	1.96	1.86		ug/L		95	70 - 130
4,4'-DDD	1.96	2.17		ug/L		110	70 - 130
4,4'-DDE	1.96	2.03		ug/L		103	70 - 130
4,4'-DDT	1.96	2.09		ug/L		106	70 - 130
Acenaphthene	1.96	1.92		ug/L		98	70 - 130
Acenaphthylene	1.96	2.02		ug/L		103	70 - 130
Acetochlor	1.96	2.17		ug/L		110	70 - 130
Alachlor	1.96	2.23		ug/L		113	70 - 130
alpha-BHC	1.96	2.07		ug/L		105	70 - 130
alpha-Chlordane	1.96	2.11		ug/L		107	70 - 130
Anthracene	1.96	2.03		ug/L		104	70 - 130
Atrazine	1.96	2.12		ug/L		108	70 - 130
Benz(a)anthracene	1.96	2.02		ug/L		103	70 - 130
Benzo[a]pyrene	1.96	2.01		ug/L		102	70 - 130
Benzo[b]fluoranthene	1.96	2.03		ug/L		103	70 - 130
Benzo[g,h,i]perylene	1.96	2.01		ug/L		102	70 - 130
Benzo[k]fluoranthene	1.96	1.94		ug/L		99	70 - 130
beta-BHC	1.96	2.17		ug/L		111	70 - 130
Bis(2-ethylhexyl) phthalate	1.96	1.97		ug/L		100	70 - 130
Bromacil	1.96	2.24		ug/L		114	70 - 130
Butachlor	1.96	2.36		ug/L		120	70 - 130
Butylbenzylphthalate	1.96	2.23		ug/L		114	70 - 130
Chlorobenzilate	1.96	2.28		ug/L		116	70 - 130
Chloroneb	1.96	1.96		ug/L		100	70 - 130
Chlorothalonil (Draconil, Bravo)	1.96	2.06		ug/L		105	70 - 130
Chlorpyrifos	1.96	2.16		ug/L		110	70 - 130
Chrysene	1.96	1.99		ug/L		101	70 - 130
delta-BHC	1.96	2.12		ug/L		108	70 - 130
Di(2-ethylhexyl)adipate	1.96	2.12		ug/L		108	70 - 130
Dibenz(a,h)anthracene	1.96	1.78		ug/L		90	70 - 130
Diclorvos (DDVP)	1.96	2.13		ug/L		108	70 - 130
Dieldrin	1.96	2.01		ug/L		102	70 - 130
Diethylphthalate	1.96	2.15		ug/L		109	70 - 130
Dimethylphthalate	1.96	2.08		ug/L		106	70 - 130
Di-n-butyl phthalate	3.93	4.48		ug/L		114	70 - 130
Di-n-octyl phthalate	1.96	1.98		ug/L		101	70 - 130
Endosulfan I (Alpha)	1.96	1.86		ug/L		95	70 - 130
Endosulfan II (Beta)	1.96	2.06		ug/L		105	70 - 130
Endosulfan sulfate	1.96	2.11		ug/L		107	70 - 130
Endrin	1.96	2.15		ug/L		110	70 - 130
Endrin aldehyde	1.96	1.92		ug/L		98	60 - 130
EPTC	1.96	2.05		ug/L		105	70 - 130
Fluoranthene	1.96	2.15		ug/L		110	70 - 130
Fluorene	1.96	2.01		ug/L		103	70 - 130
gamma-Chlordane	1.96	2.14		ug/L		109	70 - 130
Heptachlor	1.96	2.16		ug/L		110	70 - 130
Heptachlor epoxide (isomer B)	1.96	2.08		ug/L		106	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-156001-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: LCS 380-158776/23-A

Matrix: Water

Analysis Batch: 158990

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 158776

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Hexachlorobenzene	1.96	1.91		ug/L		97	70 - 130
Hexachlorocyclopentadiene	1.96	1.96		ug/L		100	70 - 130
Indeno[1,2,3-cd]pyrene	1.96	1.94		ug/L		99	70 - 130
Isophorone	1.96	2.00		ug/L		102	70 - 130
Lindane	1.96	2.14		ug/L		109	70 - 130
Malathion	1.96	2.18		ug/L		111	70 - 130
Methoxychlor	1.96	2.14		ug/L		109	70 - 130
Metolachlor	1.96	2.25		ug/L		115	70 - 130
Molinate	1.96	2.10		ug/L		107	70 - 130
Naphthalene	1.96	1.94		ug/L		99	70 - 130
Parathion	1.96	2.16		ug/L		110	70 - 130
Pendimethalin (Penoxaline)	1.96	1.94		ug/L		99	70 - 130
Phenanthrene	1.96	1.91		ug/L		97	70 - 130
Propachlor	1.96	2.17		ug/L		111	70 - 130
Pyrene	1.96	2.18		ug/L		111	70 - 130
Simazine	1.96	2.29		ug/L		116	70 - 130
Terbacil	1.96	2.42		ug/L		123	70 - 130
Terbutylazine	1.96	2.29		ug/L		117	70 - 130
Thiobencarb	1.96	2.29		ug/L		117	70 - 130
trans-Nonachlor	1.96	2.12		ug/L		108	70 - 130
Trifluralin	1.96	1.97		ug/L		100	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Nitro-m-xylene	98		70 - 130
Perylene-d12	96		70 - 130
Triphenylphosphate	109		70 - 130

Lab Sample ID: LCSD 380-158776/24-A

Matrix: Water

Analysis Batch: 158990

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 158776

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	1.96	2.00		ug/L		102	70 - 130	2	20
2,4'-DDD	1.96	2.10		ug/L		107	70 - 130	2	20
2,4'-DDE	1.96	2.07		ug/L		106	70 - 130	0	20
2,4'-DDT	1.96	1.94		ug/L		99	70 - 130	0	20
2,4-Dinitrotoluene	1.96	2.11		ug/L		107	70 - 130	1	20
2,6-Dinitrotoluene	1.96	2.09		ug/L		107	70 - 130	0	20
2-Methylnaphthalene	1.96	1.88		ug/L		96	70 - 130	1	20
4,4'-DDD	1.96	2.18		ug/L		111	70 - 130	1	20
4,4'-DDE	1.96	2.06		ug/L		105	70 - 130	2	20
4,4'-DDT	1.96	2.07		ug/L		106	70 - 130	1	20
Acenaphthene	1.96	1.93		ug/L		98	70 - 130	0	20
Acenaphthylene	1.96	2.02		ug/L		103	70 - 130	0	20
Acetochlor	1.96	2.18		ug/L		111	70 - 130	0	20
Alachlor	1.96	2.18		ug/L		111	70 - 130	2	20
alpha-BHC	1.96	2.06		ug/L		105	70 - 130	0	20
alpha-Chlordane	1.96	2.15		ug/L		109	70 - 130	2	20

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-156001-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: LCSD 380-158776/24-A

Matrix: Water

Analysis Batch: 158990

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 158776

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Anthracene	1.96	2.01		ug/L		103	70 - 130	1	20
Atrazine	1.96	2.08		ug/L		106	70 - 130	2	20
Benz(a)anthracene	1.96	2.07		ug/L		105	70 - 130	2	20
Benzo[a]pyrene	1.96	2.04		ug/L		104	70 - 130	1	20
Benzo[b]fluoranthene	1.96	2.09		ug/L		107	70 - 130	3	20
Benzo[g,h,i]perylene	1.96	1.98		ug/L		101	70 - 130	1	20
Benzo[k]fluoranthene	1.96	1.94		ug/L		99	70 - 130	0	20
beta-BHC	1.96	2.12		ug/L		108	70 - 130	3	20
Bis(2-ethylhexyl) phthalate	1.96	1.94		ug/L		99	70 - 130	2	20
Bromacil	1.96	2.21		ug/L		113	70 - 130	1	20
Butachlor	1.96	2.32		ug/L		118	70 - 130	2	20
Butylbenzylphthalate	1.96	2.23		ug/L		113	70 - 130	0	20
Chlorobenzilate	1.96	2.24		ug/L		114	70 - 130	2	20
Chloroneb	1.96	1.97		ug/L		100	70 - 130	1	20
Chlorothalonil (Draconil, Bravo)	1.96	2.09		ug/L		106	70 - 130	1	20
Chlorpyrifos	1.96	2.14		ug/L		109	70 - 130	1	20
Chrysene	1.96	2.04		ug/L		104	70 - 130	2	20
delta-BHC	1.96	2.05		ug/L		104	70 - 130	3	20
Di(2-ethylhexyl)adipate	1.96	2.06		ug/L		105	70 - 130	3	20
Dibenz(a,h)anthracene	1.96	1.92		ug/L		98	70 - 130	8	20
Diclorvos (DDVP)	1.96	2.17		ug/L		110	70 - 130	2	20
Dieldrin	1.96	2.01		ug/L		103	70 - 130	0	20
Diethylphthalate	1.96	2.12		ug/L		108	70 - 130	1	20
Dimethylphthalate	1.96	2.08		ug/L		106	70 - 130	0	20
Di-n-butyl phthalate	3.93	4.49		ug/L		114	70 - 130	0	20
Di-n-octyl phthalate	1.96	1.96		ug/L		100	70 - 130	1	20
Endosulfan I (Alpha)	1.96	1.82		ug/L		93	70 - 130	2	20
Endosulfan II (Beta)	1.96	2.01		ug/L		103	70 - 130	2	20
Endosulfan sulfate	1.96	2.07		ug/L		105	70 - 130	2	20
Endrin	1.96	2.13		ug/L		109	70 - 130	1	20
Endrin aldehyde	1.96	1.89		ug/L		96	60 - 130	1	20
EPTC	1.96	2.05		ug/L		104	70 - 130	0	20
Fluoranthene	1.96	2.17		ug/L		111	70 - 130	1	20
Fluorene	1.96	2.04		ug/L		104	70 - 130	1	20
gamma-Chlordane	1.96	2.14		ug/L		109	70 - 130	0	20
Heptachlor	1.96	2.22		ug/L		113	70 - 130	3	20
Heptachlor epoxide (isomer B)	1.96	2.08		ug/L		106	70 - 130	0	20
Hexachlorobenzene	1.96	2.02		ug/L		103	70 - 130	6	20
Hexachlorocyclopentadiene	1.96	2.07		ug/L		105	70 - 130	6	20
Indeno[1,2,3-cd]pyrene	1.96	1.97		ug/L		100	70 - 130	2	20
Isophorone	1.96	1.98		ug/L		101	70 - 130	1	20
Lindane	1.96	2.17		ug/L		110	70 - 130	1	20
Malathion	1.96	2.16		ug/L		110	70 - 130	1	20
Methoxychlor	1.96	2.14		ug/L		109	70 - 130	0	20
Metolachlor	1.96	2.21		ug/L		113	70 - 130	2	20
Molinate	1.96	2.12		ug/L		108	70 - 130	1	20
Naphthalene	1.96	1.93		ug/L		98	70 - 130	0	20
Parathion	1.96	2.12		ug/L		108	70 - 130	2	20
Pendimethalin (Penoxaline)	1.96	1.96		ug/L		100	70 - 130	1	20

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-156001-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: LCSD 380-158776/24-A

Matrix: Water

Analysis Batch: 158990

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 158776

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenanthrene	1.96	1.93		ug/L		98	70 - 130	1	20
Propachlor	1.96	2.14		ug/L		109	70 - 130	2	20
Pyrene	1.96	2.21		ug/L		113	70 - 130	1	20
Simazine	1.96	2.26		ug/L		115	70 - 130	1	20
Terbacil	1.96	2.40		ug/L		122	70 - 130	1	20
Terbutylazine	1.96	2.25		ug/L		114	70 - 130	2	20
Thiobencarb	1.96	2.26		ug/L		115	70 - 130	1	20
trans-Nonachlor	1.96	2.09		ug/L		106	70 - 130	2	20
Trifluralin	1.96	2.01		ug/L		102	70 - 130	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Nitro-m-xylene	96		70 - 130
Perylene-d12	96		70 - 130
Triphenylphosphate	109		70 - 130

Lab Sample ID: MRL 380-158776/22-A

Matrix: Water

Analysis Batch: 158990

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 158776

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	0.0982	0.102		ug/L		104	50 - 150
2,4'-DDD	0.0982	0.0869	J	ug/L		88	50 - 150
2,4'-DDE	0.0982	0.0986		ug/L		100	50 - 150
2,4'-DDT	0.0982	0.117		ug/L		119	50 - 150
2,4-Dinitrotoluene	0.0982	0.100		ug/L		102	50 - 150
2,6-Dinitrotoluene	0.0982	0.112		ug/L		114	50 - 150
2-Methylnaphthalene	0.0982	0.103		ug/L		105	50 - 150
4,4'-DDD	0.0982	0.104		ug/L		106	50 - 150
4,4'-DDE	0.0982	0.0930	J	ug/L		95	50 - 150
4,4'-DDT	0.0982	0.122		ug/L		124	50 - 150
Acenaphthene	0.0982	0.0973	J	ug/L		99	50 - 150
Acenaphthylene	0.0982	0.0938	J	ug/L		95	50 - 150
Acetochlor	0.0982	0.109		ug/L		111	50 - 150
Alachlor	0.0491	0.0529		ug/L		108	50 - 150
alpha-BHC	0.0982	0.0985		ug/L		100	50 - 150
alpha-Chlordane	0.0246	<0.028		ug/L		91	50 - 150
Anthracene	0.0196	0.0229		ug/L		117	50 - 150
Atrazine	0.0491	0.0537		ug/L		109	50 - 150
Benz(a)anthracene	0.0491	0.0518		ug/L		106	50 - 150
Benzo[a]pyrene	0.0196	0.0206		ug/L		105	50 - 150
Benzo[b]fluoranthene	0.0196	0.0269		ug/L		137	50 - 150
Benzo[g,h,i]perylene	0.0491	0.0414	J	ug/L		84	50 - 150
Benzo[k]fluoranthene	0.0196	0.0226		ug/L		115	50 - 150
beta-BHC	0.0982	0.120		ug/L		122	50 - 150
Bis(2-ethylhexyl) phthalate	0.589	0.601		ug/L		102	50 - 150
Bromacil	0.0982	0.113		ug/L		115	50 - 150
Butachlor	0.0491	0.0603		ug/L		123	50 - 150
Butylbenzylphthalate	0.491	0.573		ug/L		117	50 - 150

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-156001-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: MRL 380-158776/22-A

Matrix: Water

Analysis Batch: 158990

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 158776

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chlorobenzilate	0.0982	0.103		ug/L		105	50 - 150
Chloroneb	0.0982	0.0986		ug/L		100	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0982	0.0954	J	ug/L		97	50 - 150
Chlorpyrifos	0.0491	0.0465	J	ug/L		95	50 - 150
Chrysene	0.0196	0.0198	J	ug/L		101	50 - 150
delta-BHC	0.0982	0.103		ug/L		105	50 - 150
Di(2-ethylhexyl)adipate	0.589	0.637		ug/L		108	50 - 150
Dibenz(a,h)anthracene	0.0491	0.0475	J	ug/L		97	50 - 150
Diclorvos (DDVP)	0.0491	0.0558		ug/L		114	50 - 150
Dieldrin	0.00982	0.0142		ug/L		145	50 - 150
Diethylphthalate	0.491	0.530		ug/L		108	50 - 150
Dimethylphthalate	0.491	0.516		ug/L		105	50 - 150
Di-n-butyl phthalate	0.491	0.642	J	ug/L		131	49 - 243
Di-n-octyl phthalate	0.0982	0.0985		ug/L		100	50 - 150
Endosulfan I (Alpha)	0.0982	0.102		ug/L		103	50 - 150
Endosulfan II (Beta)	0.0982	0.101		ug/L		103	50 - 150
Endosulfan sulfate	0.0982	0.0982		ug/L		100	50 - 150
Endrin	0.00982	0.0101		ug/L		103	50 - 150
Endrin aldehyde	0.0982	0.110		ug/L		112	50 - 150
EPTC	0.0982	0.0963	J	ug/L		98	50 - 150
Fluoranthene	0.0982	0.0990		ug/L		101	50 - 150
Fluorene	0.0491	0.0510		ug/L		104	50 - 150
gamma-Chlordane	0.0246	0.0252	J	ug/L		103	50 - 150
Heptachlor	0.00982	0.00997		ug/L		102	50 - 150
Heptachlor epoxide (isomer B)	0.00982	0.0123		ug/L		125	50 - 150
Hexachlorobenzene	0.0491	0.0424	J	ug/L		86	50 - 150
Hexachlorocyclopentadiene	0.0491	0.0498		ug/L		101	50 - 150
Indeno[1,2,3-cd]pyrene	0.0491	0.0488	J	ug/L		99	50 - 150
Isophorone	0.0982	0.115		ug/L		117	50 - 150
Lindane	0.00982	0.0127		ug/L		129	50 - 150
Malathion	0.0982	0.112		ug/L		114	50 - 150
Methoxychlor	0.0491	0.0561		ug/L		114	50 - 150
Metolachlor	0.0491	0.0539		ug/L		110	50 - 150
Molinate	0.0982	0.104		ug/L		106	50 - 150
Naphthalene	0.0982	0.0951	J	ug/L		97	50 - 150
Parathion	0.0982	0.0948	J	ug/L		96	50 - 150
Pendimethalin (Penoxaline)	0.0982	0.103		ug/L		105	50 - 150
Phenanthrene	0.0393	0.0436		ug/L		111	50 - 150
Propachlor	0.0491	0.0521		ug/L		106	50 - 150
Pyrene	0.0491	0.0515		ug/L		105	50 - 150
Simazine	0.0491	0.0445	J	ug/L		91	50 - 150
Terbacil	0.0982	0.115		ug/L		117	50 - 150
Terbutylazine	0.0982	0.102		ug/L		104	50 - 150
Thiobencarb	0.0982	0.107		ug/L		108	50 - 150
trans-Nonachlor	0.0246	<0.026		ug/L		97	50 - 150
Trifluralin	0.0982	0.0993		ug/L		101	50 - 150

QC Sample Results

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

Job ID: 380-156001-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: MRL 380-158776/22-A

Matrix: Water

Analysis Batch: 158990

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 158776

Surrogate	MRL %Recovery	MRL Qualifier	Limits
2-Nitro-m-xylene	97		70 - 130
Perylene-d12	90		70 - 130
Triphenylphosphate	105		70 - 130

Lab Sample ID: 380-155975-D-2-A MS

Matrix: Water

Analysis Batch: 158990

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 158776

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.10		2.00	2.05		ug/L		102	70 - 130
2,4'-DDD	<0.10		2.00	2.11		ug/L		106	70 - 130
2,4'-DDE	<0.10		2.00	2.04		ug/L		102	70 - 130
2,4'-DDT	<0.10		2.00	1.86		ug/L		93	70 - 130
2,4-Dinitrotoluene	<0.10		2.00	2.14		ug/L		107	70 - 130
2,6-Dinitrotoluene	<0.10		2.00	2.07		ug/L		103	70 - 130
2-Methylnaphthalene	<0.10		2.00	1.94		ug/L		96	70 - 130
4,4'-DDD	<0.10		2.00	2.21		ug/L		110	70 - 130
4,4'-DDE	<0.10		2.00	1.94		ug/L		97	70 - 130
4,4'-DDT	<0.10		2.00	1.96		ug/L		98	70 - 130
Acenaphthene	<0.10		2.00	1.99		ug/L		99	70 - 130
Acenaphthylene	<0.10		2.00	2.06		ug/L		103	70 - 130
Acetochlor	<0.10		2.00	2.28		ug/L		114	70 - 130
Alachlor	<0.050		2.00	2.28		ug/L		114	70 - 130
alpha-BHC	<0.10		2.00	2.10		ug/L		105	70 - 130
alpha-Chlordane	<0.050		2.00	2.17		ug/L		108	70 - 130
Anthracene	<0.020	F1	2.00	1.20	F1	ug/L		60	70 - 130
Atrazine	<0.050		2.00	2.18		ug/L		109	70 - 130
Benz(a)anthracene	<0.050		2.00	1.90		ug/L		95	70 - 130
Benzo[a]pyrene	<0.020		2.00	1.99		ug/L		100	70 - 130
Benzo[b]fluoranthene	<0.020		2.00	2.44		ug/L		122	70 - 130
Benzo[g,h,i]perylene	<0.050		2.00	2.16		ug/L		108	70 - 130
Benzo[k]fluoranthene	<0.020		2.00	2.17		ug/L		108	70 - 130
beta-BHC	<0.10		2.00	2.23		ug/L		111	70 - 130
Bis(2-ethylhexyl) phthalate	<0.60		2.00	2.04		ug/L		102	70 - 130
Bromacil	<0.10		2.00	2.24		ug/L		112	70 - 130
Butachlor	<0.050		2.00	2.43		ug/L		122	70 - 130
Butylbenzylphthalate	<0.50		2.00	2.30		ug/L		115	70 - 130
Chlorobenzilate	<0.10		2.00	2.34		ug/L		117	70 - 130
Chloroneb	<0.10		2.00	2.01		ug/L		101	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.10		2.00	2.07		ug/L		103	70 - 130
Chlorpyrifos	<0.050		2.00	2.24		ug/L		112	70 - 130
Chrysene	<0.020		2.00	2.33		ug/L		116	70 - 130
delta-BHC	<0.10		2.00	2.13		ug/L		106	70 - 130
Di(2-ethylhexyl)adipate	<0.60		2.00	1.79		ug/L		90	70 - 130
Dibenz(a,h)anthracene	<0.050		2.00	1.97		ug/L		99	70 - 130
Diclorvos (DDVP)	<0.050		2.00	2.08		ug/L		104	70 - 130
Dieldrin	0.034		2.00	2.12		ug/L		104	70 - 130
Diethylphthalate	<0.50		2.00	2.16		ug/L		108	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-156001-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: 380-155975-D-2-A MS

Matrix: Water

Analysis Batch: 158990

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 158776

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Dimethylphthalate	<0.50		2.00	2.12		ug/L		106	70 - 130
Di-n-butyl phthalate	<1.0		4.01	4.59		ug/L		115	70 - 130
Di-n-octyl phthalate	<0.10		2.00	1.98		ug/L		99	70 - 130
Endosulfan I (Alpha)	<0.10		2.00	1.98		ug/L		99	70 - 130
Endosulfan II (Beta)	<0.10		2.00	2.14		ug/L		107	70 - 130
Endosulfan sulfate	<0.10		2.00	2.19		ug/L		109	70 - 130
Endrin	<0.010		2.00	2.23		ug/L		111	70 - 130
Endrin aldehyde	<0.10		2.00	1.83		ug/L		91	60 - 130
EPTC	<0.10		2.00	2.09		ug/L		104	70 - 130
Fluoranthene	<0.10		2.00	2.22		ug/L		111	70 - 130
Fluorene	<0.050		2.00	2.05		ug/L		102	70 - 130
gamma-Chlordane	<0.050		2.00	2.20		ug/L		110	70 - 130
Heptachlor	<0.010		2.00	2.27		ug/L		113	70 - 130
Heptachlor epoxide (isomer B)	<0.010		2.00	2.20		ug/L		110	70 - 130
Hexachlorobenzene	<0.050		2.00	2.05		ug/L		102	70 - 130
Hexachlorocyclopentadiene	<0.050		2.00	2.01		ug/L		101	70 - 130
Indeno[1,2,3-cd]pyrene	<0.050		2.00	2.08		ug/L		104	70 - 130
Isophorone	<0.10		2.00	2.06		ug/L		103	70 - 130
Lindane	<0.010		2.00	2.21		ug/L		110	70 - 130
Malathion	<0.10		2.00	2.22		ug/L		111	70 - 130
Methoxychlor	<0.050	F1	2.00	2.70	F1	ug/L		135	70 - 130
Metolachlor	<0.050		2.00	2.32		ug/L		116	70 - 130
Molinate	<0.10		2.00	2.14		ug/L		107	70 - 130
Naphthalene	0.11		2.00	2.01		ug/L		95	70 - 130
Parathion	<0.10		2.00	2.22		ug/L		111	70 - 130
Pendimethalin (Penoxaline)	<0.10		2.00	2.06		ug/L		103	70 - 130
Phenanthrene	<0.040		2.00	1.96		ug/L		98	70 - 130
Propachlor	<0.050		2.00	2.23		ug/L		111	70 - 130
Pyrene	<0.050		2.00	2.27		ug/L		113	70 - 130
Simazine	<0.050		2.00	2.31		ug/L		115	70 - 130
Terbacil	<0.10		2.00	2.36		ug/L		118	70 - 130
Terbutylazine	<0.10		2.00	2.35		ug/L		117	70 - 130
Thiobencarb	<0.10		2.00	2.31		ug/L		115	70 - 130
trans-Nonachlor	<0.050		2.00	2.17		ug/L		108	70 - 130
Trifluralin	<0.10		2.00	2.10		ug/L		105	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Nitro-m-xylene	99		70 - 130
Perylene-d12	91		70 - 130
Triphenylphosphate	110		70 - 130

Lab Sample ID: 380-155975-B-1-A DU

Matrix: Water

Analysis Batch: 158990

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 158776

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
1-Methylnaphthalene	<0.097		<0.096		ug/L		NC	20
2,4'-DDD	<0.097		<0.096		ug/L		NC	20

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-156001-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: 380-155975-B-1-A DU

Matrix: Water

Analysis Batch: 158990

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 158776

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
2,4'-DDE	<0.097		<0.096		ug/L		NC	20
2,4'-DDT	<0.097		<0.096		ug/L		NC	20
2,4-Dinitrotoluene	<0.097		<0.096		ug/L		NC	20
2,6-Dinitrotoluene	<0.097		<0.096		ug/L		NC	20
2-Methylnaphthalene	<0.097		<0.096		ug/L		NC	20
4,4'-DDD	<0.097		<0.096		ug/L		NC	20
4,4'-DDE	<0.097		<0.096		ug/L		NC	20
4,4'-DDT	<0.097		<0.096		ug/L		NC	20
Acenaphthene	<0.097		<0.096		ug/L		NC	20
Acenaphthylene	<0.097		<0.096		ug/L		NC	20
Acetochlor	<0.097		<0.096		ug/L		NC	20
Alachlor	<0.048		<0.048		ug/L		NC	20
alpha-BHC	<0.097		<0.096		ug/L		NC	20
alpha-Chlordane	<0.048		<0.048		ug/L		NC	20
Anthracene	<0.019		<0.019		ug/L		NC	20
Atrazine	<0.048		<0.048		ug/L		NC	20
Benz(a)anthracene	<0.048		<0.048		ug/L		NC	20
Benzo[a]pyrene	<0.019		<0.019		ug/L		NC	20
Benzo[b]fluoranthene	<0.019		<0.019		ug/L		NC	20
Benzo[g,h,i]perylene	<0.048		<0.048		ug/L		NC	20
Benzo[k]fluoranthene	<0.019		<0.019		ug/L		NC	20
beta-BHC	<0.097		<0.096		ug/L		NC	20
Bis(2-ethylhexyl) phthalate	<0.58		<0.58		ug/L		NC	20
Bromacil	<0.097		<0.096		ug/L		NC	20
Butachlor	<0.048		<0.048		ug/L		NC	20
Butylbenzylphthalate	<0.48		<0.48		ug/L		NC	20
Chlorobenzilate	<0.097		<0.096		ug/L		NC	20
Chloroneb	<0.097		<0.096		ug/L		NC	20
Chlorothalonil (Draconil, Bravo)	<0.097		<0.096		ug/L		NC	20
Chlorpyrifos	<0.048		<0.048		ug/L		NC	20
Chrysene	<0.019		<0.019		ug/L		NC	20
delta-BHC	<0.097		<0.096		ug/L		NC	20
Di(2-ethylhexyl)adipate	<0.58		<0.58		ug/L		NC	20
Dibenz(a,h)anthracene	<0.048		<0.048		ug/L		NC	20
Diclorvos (DDVP)	<0.048		<0.048		ug/L		NC	20
Dieldrin	0.027		0.0267		ug/L		2	20
Diethylphthalate	<0.48		<0.48		ug/L		NC	20
Dimethylphthalate	<0.48		<0.48		ug/L		NC	20
Di-n-butyl phthalate	<0.97		<0.96		ug/L		NC	20
Di-n-octyl phthalate	<0.097		<0.096		ug/L		NC	20
Endosulfan I (Alpha)	<0.097		<0.096		ug/L		NC	20
Endosulfan II (Beta)	<0.097		<0.096		ug/L		NC	20
Endosulfan sulfate	<0.097		<0.096		ug/L		NC	20
Endrin	<0.0097		<0.0096		ug/L		NC	20
Endrin aldehyde	<0.097		<0.096		ug/L		NC	20
EPTC	<0.097		<0.096		ug/L		NC	20
Fluoranthene	<0.097		<0.096		ug/L		NC	20
Fluorene	<0.048		<0.048		ug/L		NC	20
gamma-Chlordane	<0.048		<0.048		ug/L		NC	20

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-156001-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: 380-155975-B-1-A DU

Matrix: Water

Analysis Batch: 158990

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 158776

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Heptachlor	<0.0097		<0.0096		ug/L		NC	20
Heptachlor epoxide (isomer B)	<0.0097		<0.0096		ug/L		NC	20
Hexachlorobenzene	<0.048		<0.048		ug/L		NC	20
Hexachlorocyclopentadiene	<0.048		<0.048		ug/L		NC	20
Indeno[1,2,3-cd]pyrene	<0.048		<0.048		ug/L		NC	20
Isophorone	<0.097		<0.096		ug/L		NC	20
Lindane	<0.0097		<0.0096		ug/L		NC	20
Malathion	<0.097		<0.096		ug/L		NC	20
Methoxychlor	<0.048		<0.048		ug/L		NC	20
Metolachlor	<0.048		<0.048		ug/L		NC	20
Molinate	<0.097		<0.096		ug/L		NC	20
Naphthalene	<0.097		<0.096		ug/L		NC	20
Parathion	<0.097		<0.096		ug/L		NC	20
Pendimethalin (Penoxaline)	<0.097		<0.096		ug/L		NC	20
Phenanthrene	<0.039		<0.039		ug/L		NC	20
Propachlor	<0.048		<0.048		ug/L		NC	20
Pyrene	<0.048		<0.048		ug/L		NC	20
Simazine	<0.048		<0.048		ug/L		NC	20
Terbacil	<0.097		<0.096		ug/L		NC	20
Terbutylazine	<0.097		<0.096		ug/L		NC	20
Thiobencarb	<0.097		<0.096		ug/L		NC	20
Total Permethrin (mixed isomers)	<0.19		<0.19		ug/L		NC	20
trans-Nonachlor	<0.048		<0.048		ug/L		NC	20
Trifluralin	<0.097		<0.096		ug/L		NC	20

Surrogate	%Recovery	DU Qualifier	Limits
2-Nitro-m-xylene	96		70 - 130
Perylene-d12	88		70 - 130
Triphenylphosphate	103		70 - 130

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

Lab Sample ID: MB 570-586237/1-A

Matrix: Water

Analysis Batch: 591118

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 586237

Tentatively Identified Compound	Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	06/19/25 05:18	06/30/25 14:15	1

Surrogate	%Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	60		33 - 139	06/19/25 05:18	06/30/25 14:15	1
2-Fluorobiphenyl (Surr)	75		33 - 126	06/19/25 05:18	06/30/25 14:15	1
2-Fluorophenol (Surr)	48		12 - 120	06/19/25 05:18	06/30/25 14:15	1
Nitrobenzene-d5 (Surr)	79		36 - 120	06/19/25 05:18	06/30/25 14:15	1
Phenol-d6 (Surr)	26		10 - 120	06/19/25 05:18	06/30/25 14:15	1
p-Terphenyl-d14 (Surr)	77		47 - 131	06/19/25 05:18	06/30/25 14:15	1

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-156001-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: MB 570-586237/1-A

Matrix: Water

Analysis Batch: 590899

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 586237

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.20		0.20	ug/L		06/19/25 05:18	06/29/25 14:11	1
2-Methylnaphthalene	<0.20		0.20	ug/L		06/19/25 05:18	06/29/25 14:11	1
Acenaphthene	<0.20		0.20	ug/L		06/19/25 05:18	06/29/25 14:11	1
Acenaphthylene	<0.20		0.20	ug/L		06/19/25 05:18	06/29/25 14:11	1
Anthracene	<0.20		0.20	ug/L		06/19/25 05:18	06/29/25 14:11	1
Benzo[a]anthracene	<0.20		0.20	ug/L		06/19/25 05:18	06/29/25 14:11	1
Benzo[a]pyrene	<0.20		0.20	ug/L		06/19/25 05:18	06/29/25 14:11	1
Benzo[b]fluoranthene	<0.20		0.20	ug/L		06/19/25 05:18	06/29/25 14:11	1
Benzo[g,h,i]perylene	<0.20		0.20	ug/L		06/19/25 05:18	06/29/25 14:11	1
Benzo[k]fluoranthene	<0.20		0.20	ug/L		06/19/25 05:18	06/29/25 14:11	1
Chrysene	<0.20		0.20	ug/L		06/19/25 05:18	06/29/25 14:11	1
Dibenz(a,h)anthracene	<0.20		0.20	ug/L		06/19/25 05:18	06/29/25 14:11	1
Fluoranthene	<0.20		0.20	ug/L		06/19/25 05:18	06/29/25 14:11	1
Fluorene	<0.20		0.20	ug/L		06/19/25 05:18	06/29/25 14:11	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20	ug/L		06/19/25 05:18	06/29/25 14:11	1
Naphthalene	<0.20		0.20	ug/L		06/19/25 05:18	06/29/25 14:11	1
Phenanthrene	<0.20		0.20	ug/L		06/19/25 05:18	06/29/25 14:11	1
Pyrene	<0.20		0.20	ug/L		06/19/25 05:18	06/29/25 14:11	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	65		28 - 127	06/19/25 05:18	06/29/25 14:11	1
2-Fluorobiphenyl (Surr)	73		31 - 120	06/19/25 05:18	06/29/25 14:11	1
2-Fluorophenol (Surr)	42		17 - 120	06/19/25 05:18	06/29/25 14:11	1
Nitrobenzene-d5 (Surr)	70		27 - 120	06/19/25 05:18	06/29/25 14:11	1
Phenol-d6 (Surr)	25		10 - 120	06/19/25 05:18	06/29/25 14:11	1
p-Terphenyl-d14 (Surr)	81		45 - 120	06/19/25 05:18	06/29/25 14:11	1

Lab Sample ID: LCS 570-586237/2-A

Matrix: Water

Analysis Batch: 590899

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 586237

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	20.0	15.5		ug/L		78	47 - 120
2-Methylnaphthalene	20.0	15.1		ug/L		76	43 - 120
Acenaphthene	20.0	19.0		ug/L		95	60 - 132
Acenaphthylene	20.0	19.3		ug/L		96	54 - 126
Anthracene	20.0	18.9		ug/L		95	43 - 120
Benzo[a]anthracene	20.0	19.9		ug/L		99	42 - 133
Benzo[a]pyrene	20.0	20.1		ug/L		101	32 - 148
Benzo[b]fluoranthene	20.0	20.0		ug/L		100	42 - 140
Benzo[g,h,i]perylene	20.0	21.1		ug/L		106	1 - 195
Benzo[k]fluoranthene	20.0	21.2		ug/L		106	25 - 146
Chrysene	20.0	20.2		ug/L		101	44 - 140
Dibenz(a,h)anthracene	20.0	20.9		ug/L		105	1 - 200
Fluoranthene	20.0	20.1		ug/L		100	43 - 121
Fluorene	20.0	19.5		ug/L		97	70 - 120
Indeno[1,2,3-cd]pyrene	20.0	19.7		ug/L		98	1 - 151
Naphthalene	20.0	15.2		ug/L		76	36 - 120

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-156001-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: LCS 570-586237/2-A

Matrix: Water

Analysis Batch: 590899

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 586237

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phenanthrene	20.0	19.3		ug/L		96	65 - 120
Pyrene	20.0	19.7		ug/L		99	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	82		28 - 127
2-Fluorobiphenyl (Surr)	87		31 - 120
2-Fluorophenol (Surr)	56		17 - 120
Nitrobenzene-d5 (Surr)	68		27 - 120
Phenol-d6 (Surr)	34		10 - 120
p-Terphenyl-d14 (Surr)	89		45 - 120

Lab Sample ID: LCSD 570-586237/3-A

Matrix: Water

Analysis Batch: 590899

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 586237

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	20.0	14.7		ug/L		73	47 - 120	6	20
2-Methylnaphthalene	20.0	14.2		ug/L		71	43 - 120	6	20
Acenaphthene	20.0	17.5		ug/L		87	60 - 132	8	29
Acenaphthylene	20.0	17.6		ug/L		88	54 - 126	9	45
Anthracene	20.0	17.2		ug/L		86	43 - 120	10	40
Benzo[a]anthracene	20.0	18.0		ug/L		90	42 - 133	10	32
Benzo[a]pyrene	20.0	18.5		ug/L		93	32 - 148	8	43
Benzo[b]fluoranthene	20.0	18.2		ug/L		91	42 - 140	9	43
Benzo[g,h,i]perylene	20.0	19.2		ug/L		96	1 - 195	9	61
Benzo[k]fluoranthene	20.0	19.4		ug/L		97	25 - 146	9	38
Chrysene	20.0	18.3		ug/L		91	44 - 140	10	53
Dibenz(a,h)anthracene	20.0	19.2		ug/L		96	1 - 200	9	75
Fluoranthene	20.0	18.2		ug/L		91	43 - 121	10	40
Fluorene	20.0	17.2		ug/L		86	70 - 120	12	23
Indeno[1,2,3-cd]pyrene	20.0	17.6		ug/L		88	1 - 151	11	60
Naphthalene	20.0	14.3		ug/L		72	36 - 120	6	39
Phenanthrene	20.0	17.6		ug/L		88	65 - 120	9	24
Pyrene	20.0	18.0		ug/L		90	70 - 120	9	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	75		28 - 127
2-Fluorobiphenyl (Surr)	77		31 - 120
2-Fluorophenol (Surr)	51		17 - 120
Nitrobenzene-d5 (Surr)	64		27 - 120
Phenol-d6 (Surr)	32		10 - 120
p-Terphenyl-d14 (Surr)	79		45 - 120

QC Sample Results

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

Job ID: 380-156001-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: MB 570-589729/6

Matrix: Water

Analysis Batch: 589729

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	<10		10	ug/L			06/26/25 12:45	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		38 - 134				06/26/25 12:45	1

Lab Sample ID: LCS 570-589729/4

Matrix: Water

Analysis Batch: 589729

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Gasoline Range Organics (C4-C13)	400	409		ug/L		102	78 - 120	
Surrogate	LCS %Recovery	LCS Qualifier	Limits					
4-Bromofluorobenzene (Surr)	90		38 - 134					

Lab Sample ID: LCSD 570-589729/5

Matrix: Water

Analysis Batch: 589729

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (C4-C13)	400	384		ug/L		96	78 - 120	6	10
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	88		38 - 134						

Lab Sample ID: MRL 570-589729/3

Matrix: Water

Analysis Batch: 589729

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits	
Gasoline Range Organics (C4-C13)	10.0	11.8		ug/L		118	50 - 150	
Surrogate	MRL %Recovery	MRL Qualifier	Limits					
4-Bromofluorobenzene (Surr)	78		38 - 134					

Lab Sample ID: 380-155987-A-1 MS

Matrix: Water

Analysis Batch: 589729

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	F1	400	437		ug/L		109	68 - 122	
Surrogate	MS %Recovery	MS Qualifier	Limits							
4-Bromofluorobenzene (Surr)	88		38 - 134							

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-156001-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: 380-155987-A-1 MSD

Matrix: Water

Analysis Batch: 589729

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	F1	400	445		ug/L		111	68 - 122	2	18
Surrogate	%Recovery	MSD Qualifier	MSD Limits								
4-Bromofluorobenzene (Surr)	88		38 - 134								

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

Lab Sample ID: MB 570-588177/1-A

Matrix: Water

Analysis Batch: 591393

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 588177

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<25		25	ug/L		06/23/25 14:12	06/30/25 17:22	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		06/23/25 14:12	06/30/25 17:22	1
C8-C18	<25		25	ug/L		06/23/25 14:12	06/30/25 17:22	1
Surrogate	%Recovery	MB Qualifier	MB Limits					Dil Fac
n-Octacosane (Surr)	106		60 - 130					1

Lab Sample ID: LCS 570-588177/2-A

Matrix: Water

Analysis Batch: 591393

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 588177

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	RPD
C10-C28	1600	1420		ug/L		89	56 - 127	
Surrogate	%Recovery	LCS Qualifier	LCS Limits					
n-Octacosane (Surr)	103		60 - 130					

Lab Sample ID: LCSD 570-588177/3-A

Matrix: Water

Analysis Batch: 591393

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 588177

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28	1600	1200		ug/L		75	56 - 127	17	23
Surrogate	%Recovery	LCSD Qualifier	LCSD Limits						
n-Octacosane (Surr)	88		60 - 130						

Lab Sample ID: MRL 570-588177/4-A

Matrix: Water

Analysis Batch: 591393

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 588177

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits	RPD
C10-C28	0.0200	0.0260		mg/L		130	50 - 150	

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-156001-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: MRL 570-588177/4-A

Matrix: Water

Analysis Batch: 591393

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 588177

	MRL	MRL	
Surrogate	%Recovery	Qualifier	Limits
n-Octacosane (Surr)	101		60 - 130

Lab Sample ID: 380-155987-C-1-A MS

Matrix: Water

Analysis Batch: 591393

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 588177

	Sample	Sample	Spike	MS	MS					
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
C10-C28	<27		1660	1350		ug/L		81	70 - 130	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
n-Octacosane (Surr)	102		60 - 130

Lab Sample ID: 380-155987-C-1-B MSD

Matrix: Water

Analysis Batch: 591393

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 588177

	Sample	Sample	Spike	MSD	MSD							
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
C10-C28	<27		1670	1590		ug/L		95	70 - 130	16	20	

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
n-Octacosane (Surr)	112		60 - 130

QC Association Summary

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

Job ID: 380-156001-1
SDG: Weekly: Aiea Gulch Wells Pump 1

GC/MS Semi VOA

Prep Batch: 158776

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-156001-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	525.2	
MB 380-158776/21-A	Method Blank	Total/NA	Water	525.2	
LCS 380-158776/23-A	Lab Control Sample	Total/NA	Water	525.2	
LCSD 380-158776/24-A	Lab Control Sample Dup	Total/NA	Water	525.2	
MRL 380-158776/22-A	Lab Control Sample	Total/NA	Water	525.2	
380-155975-D-2-A MS	Matrix Spike	Total/NA	Water	525.2	
380-155975-B-1-A DU	Duplicate	Total/NA	Water	525.2	

Analysis Batch: 158990

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-156001-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	525.2	158776
MB 380-158776/21-A	Method Blank	Total/NA	Water	525.2	158776
LCS 380-158776/23-A	Lab Control Sample	Total/NA	Water	525.2	158776
LCSD 380-158776/24-A	Lab Control Sample Dup	Total/NA	Water	525.2	158776
MRL 380-158776/22-A	Lab Control Sample	Total/NA	Water	525.2	158776
380-155975-D-2-A MS	Matrix Spike	Total/NA	Water	525.2	158776
380-155975-B-1-A DU	Duplicate	Total/NA	Water	525.2	158776

Prep Batch: 586237

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-156001-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	625.1	
MB 570-586237/1-A	Method Blank	Total/NA	Water	625.1	
LCS 570-586237/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 570-586237/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	

Analysis Batch: 590899

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-156001-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	625.1 SIM	586237
MB 570-586237/1-A	Method Blank	Total/NA	Water	625.1 SIM	586237
LCS 570-586237/2-A	Lab Control Sample	Total/NA	Water	625.1 SIM	586237
LCSD 570-586237/3-A	Lab Control Sample Dup	Total/NA	Water	625.1 SIM	586237

Analysis Batch: 591118

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-156001-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	625.1	586237
MB 570-586237/1-A	Method Blank	Total/NA	Water	625.1	586237

GC VOA

Analysis Batch: 589729

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-156001-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	8015B GRO LL	
380-156001-2	TB: AIEA GULCH WELLS PUMP 1 (331-201-TPC	Total/NA	Water	8015B GRO LL	
MB 570-589729/6	Method Blank	Total/NA	Water	8015B GRO LL	
LCS 570-589729/4	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-589729/5	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	
MRL 570-589729/3	Lab Control Sample	Total/NA	Water	8015B GRO LL	
380-155987-A-1 MS	Matrix Spike	Total/NA	Water	8015B GRO LL	
380-155987-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8015B GRO LL	

QC Association Summary

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

Job ID: 380-156001-1
SDG: Weekly: Aiea Gulch Wells Pump 1

GC Semi VOA

Prep Batch: 588177

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-156001-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	3510C	
MB 570-588177/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-588177/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-588177/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-588177/4-A	Lab Control Sample	Total/NA	Water	3510C	
380-155987-C-1-A MS	Matrix Spike	Total/NA	Water	3510C	
380-155987-C-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

Analysis Batch: 591393

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-156001-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	8015B	588177
MB 570-588177/1-A	Method Blank	Total/NA	Water	8015B	588177
LCS 570-588177/2-A	Lab Control Sample	Total/NA	Water	8015B	588177
LCSD 570-588177/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	588177
MRL 570-588177/4-A	Lab Control Sample	Total/NA	Water	8015B	588177
380-155987-C-1-A MS	Matrix Spike	Total/NA	Water	8015B	588177
380-155987-C-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	8015B	588177

Lab Chronicle

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

Job ID: 380-156001-1
SDG: Weekly: Aiea Gulch Wells Pump 1

**Client Sample ID: AIEA GULCH WELLS PUMP 1
(331-201-TP071)**

Lab Sample ID: 380-156001-1

Date Collected: 06/16/25 09:45

Matrix: Drinking Water

Date Received: 06/18/25 09:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			158776	KRD3	EA POM	06/19/25 08:38
Total/NA	Analysis	525.2		1	158990	Q8LA	EA POM	06/20/25 13:42
Total/NA	Prep	625.1			586237	H1SH	EET CAL 4	06/19/25 05:18
Total/NA	Analysis	625.1		1	591118	CG	EET CAL 4	06/30/25 16:42
Total/NA	Prep	625.1			586237	H1SH	EET CAL 4	06/19/25 05:18
Total/NA	Analysis	625.1 SIM		1	590899	PQS1	EET CAL 4	06/29/25 20:45
Total/NA	Analysis	8015B GRO LL		1	589729	A9VE	EET CAL 4	06/26/25 19:32
Total/NA	Prep	3510C			588177	TVD6	EET CAL 4	06/23/25 14:13
Total/NA	Analysis	8015B		1	591393	H6FE	EET CAL 4	06/30/25 21:02

**Client Sample ID: TB: AIEA GULCH WELLS PUMP 1
(331-201-TP071)**

Lab Sample ID: 380-156001-2

Date Collected: 06/16/25 09:45

Matrix: Water

Date Received: 06/18/25 09:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	589729	A9VE	EET CAL 4	06/26/25 14:31

Laboratory References:

EA POM = Eurofins Eaton Analytical Pomona, 941 Corporate Center Drive, Pomona, CA 91768-2642, TEL (626)386-1100
EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Accreditation/Certification Summary

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

Job ID: 380-156001-1
SDG: Weekly: Aiea Gulch Wells Pump 1

Laboratory: Eurofins Eaton Analytical Pomona

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

Authority	Program	Identification Number	Expiration Date
Hawaii	State	CA00006	01-31-26
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
525.2	525.2	Drinking Water	1-Methylnaphthalene
525.2	525.2	Drinking Water	2,4'-DDD
525.2	525.2	Drinking Water	2,4'-DDE
525.2	525.2	Drinking Water	2,4'-DDT
525.2	525.2	Drinking Water	2,4-Dinitrotoluene
525.2	525.2	Drinking Water	2,6-Dinitrotoluene
525.2	525.2	Drinking Water	2-Methylnaphthalene
525.2	525.2	Drinking Water	4,4'-DDD
525.2	525.2	Drinking Water	4,4'-DDE
525.2	525.2	Drinking Water	4,4' DDT
525.2	525.2	Drinking Water	Acetochlor
525.2	525.2	Drinking Water	alpha-BHC
525.2	525.2	Drinking Water	alpha-Chlordane
525.2	525.2	Drinking Water	beta-BHC
525.2	525.2	Drinking Water	Chlorobenzilate
525.2	525.2	Drinking Water	Chloroneb
525.2	525.2	Drinking Water	Chlorothalonil (Draconil, Bravo)
525.2	525.2	Drinking Water	Chlorpyrifos
525.2	525.2	Drinking Water	delta-BHC
525.2	525.2	Drinking Water	Diclorvos (DDVP)
525.2	525.2	Drinking Water	Endosulfan I (Alpha)
525.2	525.2	Drinking Water	Endosulfan II (Beta)
525.2	525.2	Drinking Water	Endosulfan sulfate
525.2	525.2	Drinking Water	Endrin aldehyde
525.2	525.2	Drinking Water	EPTC
525.2	525.2	Drinking Water	gamma-Chlordane
525.2	525.2	Drinking Water	Isophorone
525.2	525.2	Drinking Water	Malathion
525.2	525.2	Drinking Water	Parathion
525.2	525.2	Drinking Water	Pendimethalin (Penoxaline)
525.2	525.2	Drinking Water	Terbacil
525.2	525.2	Drinking Water	Terbutylazine
525.2	525.2	Drinking Water	Total Permethrin (mixed isomers)
525.2	525.2	Drinking Water	trans-Nonachlor

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
Arkansas DEQ	State	88-01672	07-02-25
California	Los Angeles County Sanitation Districts	9257304	07-31-26

Accreditation/Certification Summary

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

Job ID: 380-156001-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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	SCAQMD LAP	17LA0919	11-30-25
California	State	3082	07-31-25
Kansas	NELAP	E-10420	07-31-25
Nevada	State	CA00111	07-31-25
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: 380-156001-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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: 380-156001-1
SDG: Weekly: Aiea Gulch Wells Pump 1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	PWSID Number
380-156001-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Drinking Water	06/16/25 09:45	06/18/25 09:43	HI0000331
380-156001-2	TB: AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Water	06/16/25 09:45	06/18/25 09:43	

Eurofins Eaton Analytical Pomona

941 Corporate Center Drive
Pomona, CA 91768-2642
Phone (626) 386-1100

Chain of Custody Record



Environment Testing

Client Information		Sampler Olaf Happe/Jason Rakofsky		Lab PM: Arada, Rachele		Carrier Tracking No(s):		COC No: 380-28005-2757 1			
Client Contact: Kirk Iwamoto		Phone: +1 808 748 5840		E-Mail: Rachele.Arada@et.eurofinsus.com		State of Origin:		Page: Page 1 of 1			
Company: City & County of Honolulu		PWSID:		Analysis Requested						Job #:	
Address: 630 South Beretania Street Chemistry Lab		Due Date Requested:		 380-156001 COC						Preservation Codes: R - NaThioSO4 RA - NaThio/HCl Q - Na2SO3 QA - Na2SO3/HCl Y - Trizma I - NH4 Acetate	
City: Honolulu		TAT Requested (days):								Other:	
State, Zip: HI, 96843		Compliance Project: ☐ Yes ☐ No									
Phone: 808-748-5840 (Tel)		PO #: C20525101 exp 05312023									
Email: kiwamoto@hbws.org		WO #:									
Project Name: RED-HILL/HBWS Sites Event Desc. RUSH Weekly Red Hill		Project #: 38001111		Field Filled Sample (Yes or No) Perform M/M/MSD (Yes or No) 625.1, 625.1, SIM 8015B, GRO_LL - (MOD) GRO 8015B, DRO_LL_CS - HNL Ranges: C10-C24/C24-C36/C36-C18 625.2, PREC - (MOD) 625plus Plus TICs 537.1, DW_PREC - 537.1 Full List 633 - All Analytes						Total Number of Containers	
Site: Hawaii		SSOW#:								Special Instructions/Note:	
Sample Identification		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=oil, BT=Tissue, A=Air)		Preservation Code:	
Aiea Gulch Pump 1		16-Jun-2025		0945		G		Water		X X R RA Q QA Y I	
Aiea Gulch Pump 1 (Matrix Spike)								Water			
Aiea Gulch Pump 1 (Matrix Spike Duplicate)								Water			
TB: Aiea Gulch Pump 1		16-Jun-2025						Water		2	
Aiea Gulch Pump 2		16-Jun-2025						Water		2 3 2 2	
Aiea Gulch Pump 2 (Matrix Spike)								Water			
Aiea Gulch Pump 2 (Matrix Spike Duplicate)								Water			
TB: Aiea Gulch Pump 2		16-Jun-2025						Water		2	
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological											
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months											
Deliverable Requested I, II, III, IV, Other (specify)											
Special Instructions/QC Requirements											
Empty Kit Relinquished by _____ Date: _____ Time: _____ Method of Shipment: _____											
Relinquished by _____		Date/Time: _____		Company: _____		Received by _____		Date/Time: _____		Company: _____	
Relinquished by _____		Date/Time: _____		Company: _____		Received by _____		Date/Time: _____		Company: _____	
Relinquished by _____		Date/Time: _____		Company: _____		Received by _____		Date/Time: _____		Company: _____	
Custody Seals Intact: ☐ Yes ☐ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 75.1A ① 2.4° - 0.0° = 2.4° ② 3.5° - 0.0° = 3.5° GEL-FREE							

Loc: 380

156001

380-156001 Chain of Custody

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-156001-1

SDG Number: Weekly: Aiea Gulch Wells Pump 1

Login Number: 156001

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: 380-156001-1

SDG Number: Weekly: Aiea Gulch Wells Pump 1

Login Number: 156001

List Number: 2

Creator: Khana, Piyush

List Source: Eurofins Calscience

List Creation: 06/18/25 06:29 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	2.9
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	