

ANALYTICAL REPORT

PREPARED FOR

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JOB DESCRIPTION

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

JOB NUMBER

380-223446-1

Eurofins 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 Drinking Water and Wastewater West, LLC Project Manager.

Compliance Statement

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

Authorization



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Definitions/Glossary

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

Job ID: 380-223446-1
SDG: Weekly: Aiea Gulch Wells Pump 1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
^3+	Reporting Limit Check Standard is outside acceptance limits, high biased
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
^3+	Reporting Limit Check Standard is outside acceptance 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: 380-223446-1

Job ID: 380-223446-1

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Job Narrative 380-223446-1

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 7/8/2026 9:28 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.5°C.

GC/MS Semi VOA

Method 625.1: The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch. Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 570-767443.

Method 625.1 SIM: The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch. Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 570-767443.

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: The method reporting limit check (MRL) for preparation batch 570-767699 and analytical batch 570-767924 recovered outside control limits for the following analytes: C10-C28. These analytes were biased high in the MRL and were not detected in the associated samples; therefore, the data have been reported.

Method 8015B: The method reporting limit check (MRL) for preparation batch 570-767699 and analytical batch 570-769468 recovered outside control limits for the following analytes: C10-C28. These analytes were biased high in the MRL and were not detected in the associated samples; therefore, the data have been reported.

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: 380-223446-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: 380-223446-1

☐ No Detections.

**Client Sample ID: TB: AIEA GULCH WELLS P1
(331-201-TP071)**

Lab Sample ID: 380-223446-2

☐ 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: 380-223446-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: 380-223446-1

Date Collected: 07/06/26 11:00

Matrix: Drinking Water

Date Received: 07/08/26 09:28

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.099		0.099	ug/L		07/13/26 13:50	07/14/26 16:11	1
2,4'-DDD	<0.099		0.099	ug/L		07/13/26 13:50	07/14/26 16:11	1
2,4'-DDE	<0.099		0.099	ug/L		07/13/26 13:50	07/14/26 16:11	1
2,4'-DDT	<0.099		0.099	ug/L		07/13/26 13:50	07/14/26 16:11	1
2,4-Dinitrotoluene	<0.099		0.099	ug/L		07/13/26 13:50	07/14/26 16:11	1
2,6-Dinitrotoluene	<0.099		0.099	ug/L		07/13/26 13:50	07/14/26 16:11	1
2-Methylnaphthalene	<0.099		0.099	ug/L		07/13/26 13:50	07/14/26 16:11	1
4,4'-DDD	<0.099		0.099	ug/L		07/13/26 13:50	07/14/26 16:11	1
4,4'-DDE	<0.099		0.099	ug/L		07/13/26 13:50	07/14/26 16:11	1
4,4'-DDT	<0.099		0.099	ug/L		07/13/26 13:50	07/14/26 16:11	1
Acenaphthene	<0.099		0.099	ug/L		07/13/26 13:50	07/14/26 16:11	1
Acenaphthylene	<0.099		0.099	ug/L		07/13/26 13:50	07/14/26 16:11	1
Acetochlor	<0.099		0.099	ug/L		07/13/26 13:50	07/14/26 16:11	1
Alachlor	<0.049		0.049	ug/L		07/13/26 13:50	07/14/26 16:11	1
alpha-BHC	<0.099		0.099	ug/L		07/13/26 13:50	07/14/26 16:11	1
alpha-Chlordane	<0.049		0.049	ug/L		07/13/26 13:50	07/14/26 16:11	1
Anthracene	<0.020		0.020	ug/L		07/13/26 13:50	07/14/26 16:11	1
Atrazine	<0.049		0.049	ug/L		07/13/26 13:50	07/14/26 16:11	1
Benz(a)anthracene	<0.049		0.049	ug/L		07/13/26 13:50	07/14/26 16:11	1
Benzo[a]pyrene	<0.020		0.020	ug/L		07/13/26 13:50	07/14/26 16:11	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		07/13/26 13:50	07/14/26 16:11	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		07/13/26 13:50	07/14/26 16:11	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		07/13/26 13:50	07/14/26 16:11	1
beta-BHC	<0.099		0.099	ug/L		07/13/26 13:50	07/14/26 16:11	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		07/13/26 13:50	07/14/26 16:11	1
Bromacil	<0.099		0.099	ug/L		07/13/26 13:50	07/14/26 16:11	1
Butachlor	<0.049		0.049	ug/L		07/13/26 13:50	07/14/26 16:11	1
Butylbenzylphthalate	<0.49		0.49	ug/L		07/13/26 13:50	07/14/26 16:11	1
Chlorobenzilate	<0.099		0.099	ug/L		07/13/26 13:50	07/14/26 16:11	1
Chloroneb	<0.099		0.099	ug/L		07/13/26 13:50	07/14/26 16:11	1
Chlorothalonil (Draconil, Bravo)	<0.099		0.099	ug/L		07/13/26 13:50	07/14/26 16:11	1
Chlorpyrifos	<0.049		0.049	ug/L		07/13/26 13:50	07/14/26 16:11	1
Chrysene	<0.020		0.020	ug/L		07/13/26 13:50	07/14/26 16:11	1
delta-BHC	<0.099		0.099	ug/L		07/13/26 13:50	07/14/26 16:11	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		07/13/26 13:50	07/14/26 16:11	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		07/13/26 13:50	07/14/26 16:11	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		07/13/26 13:50	07/14/26 16:11	1
Dieldrin	<0.0099	^3+	0.0099	ug/L		07/13/26 13:50	07/14/26 16:11	1
Diethylphthalate	<0.49		0.49	ug/L		07/13/26 13:50	07/14/26 16:11	1
Dimethylphthalate	<0.49		0.49	ug/L		07/13/26 13:50	07/14/26 16:11	1
Di-n-butyl phthalate	<0.99		0.99	ug/L		07/13/26 13:50	07/14/26 16:11	1
Di-n-octyl phthalate	<0.099		0.099	ug/L		07/13/26 13:50	07/14/26 16:11	1
Endosulfan I (Alpha)	<0.099		0.099	ug/L		07/13/26 13:50	07/14/26 16:11	1
Endosulfan II (Beta)	<0.099		0.099	ug/L		07/13/26 13:50	07/14/26 16:11	1
Endosulfan sulfate	<0.099		0.099	ug/L		07/13/26 13:50	07/14/26 16:11	1
Endrin	<0.0099		0.0099	ug/L		07/13/26 13:50	07/14/26 16:11	1
Endrin aldehyde	<0.099		0.099	ug/L		07/13/26 13:50	07/14/26 16:11	1
EPTC	<0.099		0.099	ug/L		07/13/26 13:50	07/14/26 16:11	1

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Client Sample Results

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

Job ID: 380-223446-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: 380-223446-1

Date Collected: 07/06/26 11:00

Matrix: Drinking Water

Date Received: 07/08/26 09:28

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.099		0.099	ug/L		07/13/26 13:50	07/14/26 16:11	1
Fluorene	<0.049		0.049	ug/L		07/13/26 13:50	07/14/26 16:11	1
gamma-Chlordane	<0.049		0.049	ug/L		07/13/26 13:50	07/14/26 16:11	1
Heptachlor	<0.0099		0.0099	ug/L		07/13/26 13:50	07/14/26 16:11	1
Heptachlor epoxide (isomer B)	<0.0099		0.0099	ug/L		07/13/26 13:50	07/14/26 16:11	1
Hexachlorobenzene	<0.049		0.049	ug/L		07/13/26 13:50	07/14/26 16:11	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		07/13/26 13:50	07/14/26 16:11	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		07/13/26 13:50	07/14/26 16:11	1
Isophorone	<0.099		0.099	ug/L		07/13/26 13:50	07/14/26 16:11	1
Lindane	<0.0099		0.0099	ug/L		07/13/26 13:50	07/14/26 16:11	1
Malathion	<0.099		0.099	ug/L		07/13/26 13:50	07/14/26 16:11	1
Methoxychlor	<0.049		0.049	ug/L		07/13/26 13:50	07/14/26 16:11	1
Metolachlor	<0.049		0.049	ug/L		07/13/26 13:50	07/14/26 16:11	1
Molinate	<0.099		0.099	ug/L		07/13/26 13:50	07/14/26 16:11	1
Naphthalene	<0.099		0.099	ug/L		07/13/26 13:50	07/14/26 16:11	1
Parathion	<0.099		0.099	ug/L		07/13/26 13:50	07/14/26 16:11	1
Pendimethalin (Penoxaline)	<0.099		0.099	ug/L		07/13/26 13:50	07/14/26 16:11	1
Phenanthrene	<0.039		0.039	ug/L		07/13/26 13:50	07/14/26 16:11	1
Propachlor	<0.049		0.049	ug/L		07/13/26 13:50	07/14/26 16:11	1
Pyrene	<0.049		0.049	ug/L		07/13/26 13:50	07/14/26 16:11	1
Simazine	<0.049		0.049	ug/L		07/13/26 13:50	07/14/26 16:11	1
Terbacil	<0.099		0.099	ug/L		07/13/26 13:50	07/14/26 16:11	1
Terbutylazine	<0.099		0.099	ug/L		07/13/26 13:50	07/14/26 16:11	1
Thiobencarb	<0.099		0.099	ug/L		07/13/26 13:50	07/14/26 16:11	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		07/13/26 13:50	07/14/26 16:11	1
trans-Nonachlor	<0.049		0.049	ug/L		07/13/26 13:50	07/14/26 16:11	1
Trifluralin	<0.099		0.099	ug/L		07/13/26 13:50	07/14/26 16:11	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	07/13/26 13:50	07/14/26 16:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	98		70 - 130	07/13/26 13:50	07/14/26 16:11	1
Perylene-d12	92		70 - 130	07/13/26 13:50	07/14/26 16:11	1
Triphenylphosphate	108		70 - 130	07/13/26 13:50	07/14/26 16:11	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		07/11/26 13:37	07/14/26 03:08	1
2-Methylnaphthalene	<0.19		0.19	ug/L		07/11/26 13:37	07/14/26 03:08	1
Acenaphthene	<0.19		0.19	ug/L		07/11/26 13:37	07/14/26 03:08	1
Acenaphthylene	<0.19		0.19	ug/L		07/11/26 13:37	07/14/26 03:08	1
Anthracene	<0.19		0.19	ug/L		07/11/26 13:37	07/14/26 03:08	1
Benzo[a]anthracene	<0.19		0.19	ug/L		07/11/26 13:37	07/14/26 03:08	1
Benzo[a]pyrene	<0.19		0.19	ug/L		07/11/26 13:37	07/14/26 03:08	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		07/11/26 13:37	07/14/26 03:08	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		07/11/26 13:37	07/14/26 03:08	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		07/11/26 13:37	07/14/26 03:08	1
Chrysene	<0.19		0.19	ug/L		07/11/26 13:37	07/14/26 03:08	1

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Client Sample Results

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

Job ID: 380-223446-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: 380-223446-1

Date Collected: 07/06/26 11:00

Matrix: Drinking Water

Date Received: 07/08/26 09:28

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		07/11/26 13:37	07/14/26 03:08	1
Fluoranthene	<0.19		0.19	ug/L		07/11/26 13:37	07/14/26 03:08	1
Fluorene	<0.19		0.19	ug/L		07/11/26 13:37	07/14/26 03:08	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		07/11/26 13:37	07/14/26 03:08	1
Naphthalene	<0.19		0.19	ug/L		07/11/26 13:37	07/14/26 03:08	1
Phenanthrene	<0.19		0.19	ug/L		07/11/26 13:37	07/14/26 03:08	1
Pyrene	<0.19		0.19	ug/L		07/11/26 13:37	07/14/26 03:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	91		28 - 127	07/11/26 13:37	07/14/26 03:08	1
2-Fluorobiphenyl (Surr)	84		31 - 120	07/11/26 13:37	07/14/26 03:08	1
2-Fluorophenol (Surr)	54		17 - 120	07/11/26 13:37	07/14/26 03:08	1
Nitrobenzene-d5 (Surr)	82		27 - 120	07/11/26 13:37	07/14/26 03:08	1
Phenol-d6 (Surr)	28		10 - 120	07/11/26 13:37	07/14/26 03:08	1
p-Terphenyl-d14 (Surr)	80		45 - 120	07/11/26 13:37	07/14/26 03:08	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	07/11/26 13:37	07/15/26 12:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	73		33 - 139	07/11/26 13:37	07/15/26 12:46	1
2-Fluorobiphenyl (Surr)	80		33 - 126	07/11/26 13:37	07/15/26 12:46	1
2-Fluorophenol (Surr)	51		12 - 120	07/11/26 13:37	07/15/26 12:46	1
Nitrobenzene-d5 (Surr)	80		36 - 120	07/11/26 13:37	07/15/26 12:46	1
Phenol-d6 (Surr)	27		10 - 120	07/11/26 13:37	07/15/26 12:46	1
p-Terphenyl-d14 (Surr)	81		47 - 131	07/11/26 13:37	07/15/26 12:46	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			07/13/26 22:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		38 - 134		07/13/26 22:00	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		07/12/26 08:59	07/16/26 04:44	1
Motor Oil Range Organics [C24-C36]	<26		26	ug/L		07/12/26 08:59	07/16/26 04:44	1
C8-C18	<26		26	ug/L		07/12/26 08:59	07/16/26 04:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	108		60 - 130	07/12/26 08:59	07/16/26 04:44	1

Eurofins Pomona

Client Sample Results

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

Job ID: 380-223446-1
SDG: Weekly: Aiea Gulch Wells Pump 1

**Client Sample ID: TB: AIEA GULCH WELLS P1
(331-201-TP071)**

Lab Sample ID: 380-223446-2

Date Collected: 07/06/26 11:00

Matrix: Water

Date Received: 07/08/26 09:28

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			07/17/26 13:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		38 - 134				07/17/26 13:48	1

Action Limit Summary

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

Job ID: 380-223446-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: 380-223446-1

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	<0.0099		ug/L	2	0.0099	525.2	Total/NA
Heptachlor	<0.0099		ug/L	0.4	0.0099	525.2	Total/NA
Heptachlor epoxide (isomer B)	<0.0099		ug/L	0.2	0.0099	525.2	Total/NA
Hexachlorobenzene	<0.049		ug/L	1	0.049	525.2	Total/NA
Hexachlorocyclopentadiene	<0.049		ug/L	50	0.049	525.2	Total/NA
Lindane	<0.0099		ug/L	0.2	0.0099	525.2	Total/NA
Methoxychlor	<0.049		ug/L	40	0.049	525.2	Total/NA
Simazine	<0.049		ug/L	4	0.049	525.2	Total/NA
Benzo[a]pyrene	<0.19		ug/L	0.2	0.19	625.1 SIM	Total/NA

Surrogate Summary

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

Job ID: 380-223446-1
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)				
380-223446-1	AIEA GULCH WELLS PUMP 1 (	98	92	108				

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)				
380-223744-AH-1-A MS	Matrix Spike	98	97	111				
380-223748-AH-1-A DU	Duplicate	99	95	112				
LCS 380-239255/23-A	Lab Control Sample	97	94	110				
MB 380-239255/21-A	Method Blank	98	91	108				
MRL 380-239255/22-A	Lab Control Sample	97	91	112				

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)		
380-223446-1	AIEA GULCH WELLS PUMP 1 (	73	80	51	80	27	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: 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 570-767443/1-A	Method Blank	66	67	47	72	29	80		

Surrogate Legend

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

FBP = 2-Fluorobiphenyl (Surr)

2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

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Surrogate Summary

Client: City & County of Honolulu
Project/Site: RED-HILL
PHL6 = Phenol-d6 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

Job ID: 380-223446-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Matrix: Drinking Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TBP (28-127)	FBP (31-120)	2FP (17-120)	NBZ (27-120)	PHL6 (10-120)	TPHd14 (45-120)
380-223446-1	AIEA GULCH WELLS PUMP 1 (	91	84	54	82	28	80

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

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TBP (28-127)	FBP (31-120)	2FP (17-120)	NBZ (27-120)	PHL6 (10-120)	TPHd14 (45-120)
380-223448-A-1-A MS	Matrix Spike	84	80	56	69	36	87
380-223448-A-1-B MSD	Matrix Spike Duplicate	88	83	56	71	36	91
LCS 570-767443/2-A	Lab Control Sample	90	82	67	71	42	93
LCSD 570-767443/3-A	Lab Control Sample Dup	88	81	71	73	45	96
MB 570-767443/1-A	Method Blank	84	66	48	74	28	75

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

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (38-134)
380-223446-1	AIEA GULCH WELLS PUMP 1 (	102

Surrogate Legend

BFB = 4-Bromofluorobenzene (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)
380-222429-C-1 MS	Matrix Spike	105
380-222429-C-1 MSD	Matrix Spike Duplicate	101
380-223446-2	TB: AIEA GULCH WELLS P1 (331-201-TP071)	101

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Surrogate Summary

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

Job ID: 380-223446-1
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)
380-223448-C-1 MS	Matrix Spike	103
380-223448-C-1 MSD	Matrix Spike Duplicate	99
LCS 570-767974/3	Lab Control Sample	97
LCS 570-770259/3	Lab Control Sample	95
LCSD 570-767974/4	Lab Control Sample Dup	99
LCSD 570-770259/4	Lab Control Sample Dup	103
MB 570-767974/6	Method Blank	104
MB 570-770259/6	Method Blank	108
MRL 570-767974/5	Lab Control Sample	99
MRL 570-770259/5	Lab Control Sample	106

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)
380-223446-1	AIEA GULCH WELLS PUMP 1 (	108

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)
380-223448-B-1-A MS	Matrix Spike	109
380-223448-B-1-B MSD	Matrix Spike Duplicate	97
LCS 570-767699/2-A	Lab Control Sample	110
LCSD 570-767699/3-A	Lab Control Sample Dup	93
MB 570-767699/1-A	Method Blank	92
MRL 570-767699/4-A	Lab Control Sample	94

Surrogate Legend

OTCSN = n-Octacosane (Surr)

QC Sample Results

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

Job ID: 380-223446-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: MB 380-239255/21-A

Matrix: Water

Analysis Batch: 239523

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 239255

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.098		0.098	ug/L		07/13/26 13:50	07/14/26 13:26	1
2,4'-DDD	<0.098		0.098	ug/L		07/13/26 13:50	07/14/26 13:26	1
2,4'-DDE	<0.098		0.098	ug/L		07/13/26 13:50	07/14/26 13:26	1
2,4'-DDT	<0.098		0.098	ug/L		07/13/26 13:50	07/14/26 13:26	1
2,4-Dinitrotoluene	<0.098		0.098	ug/L		07/13/26 13:50	07/14/26 13:26	1
2,6-Dinitrotoluene	<0.098		0.098	ug/L		07/13/26 13:50	07/14/26 13:26	1
2-Methylnaphthalene	<0.098		0.098	ug/L		07/13/26 13:50	07/14/26 13:26	1
4,4'-DDD	<0.098		0.098	ug/L		07/13/26 13:50	07/14/26 13:26	1
4,4'-DDE	<0.098		0.098	ug/L		07/13/26 13:50	07/14/26 13:26	1
4,4'-DDT	<0.098		0.098	ug/L		07/13/26 13:50	07/14/26 13:26	1
Acenaphthene	<0.098		0.098	ug/L		07/13/26 13:50	07/14/26 13:26	1
Acenaphthylene	<0.098		0.098	ug/L		07/13/26 13:50	07/14/26 13:26	1
Acetochlor	<0.098		0.098	ug/L		07/13/26 13:50	07/14/26 13:26	1
Alachlor	<0.049		0.049	ug/L		07/13/26 13:50	07/14/26 13:26	1
alpha-BHC	<0.098		0.098	ug/L		07/13/26 13:50	07/14/26 13:26	1
alpha-Chlordane	<0.049		0.049	ug/L		07/13/26 13:50	07/14/26 13:26	1
Anthracene	<0.020		0.020	ug/L		07/13/26 13:50	07/14/26 13:26	1
Atrazine	<0.049		0.049	ug/L		07/13/26 13:50	07/14/26 13:26	1
Benz(a)anthracene	<0.049		0.049	ug/L		07/13/26 13:50	07/14/26 13:26	1
Benzo[a]pyrene	<0.020		0.020	ug/L		07/13/26 13:50	07/14/26 13:26	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		07/13/26 13:50	07/14/26 13:26	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		07/13/26 13:50	07/14/26 13:26	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		07/13/26 13:50	07/14/26 13:26	1
beta-BHC	<0.098		0.098	ug/L		07/13/26 13:50	07/14/26 13:26	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		07/13/26 13:50	07/14/26 13:26	1
Bromacil	<0.098		0.098	ug/L		07/13/26 13:50	07/14/26 13:26	1
Butachlor	<0.049		0.049	ug/L		07/13/26 13:50	07/14/26 13:26	1
Butylbenzylphthalate	<0.49		0.49	ug/L		07/13/26 13:50	07/14/26 13:26	1
Chlorobenzilate	<0.098		0.098	ug/L		07/13/26 13:50	07/14/26 13:26	1
Chloroneb	<0.098		0.098	ug/L		07/13/26 13:50	07/14/26 13:26	1
Chlorothalonil (Draconil, Bravo)	<0.098		0.098	ug/L		07/13/26 13:50	07/14/26 13:26	1
Chlorpyrifos	<0.049		0.049	ug/L		07/13/26 13:50	07/14/26 13:26	1
Chrysene	<0.020		0.020	ug/L		07/13/26 13:50	07/14/26 13:26	1
delta-BHC	<0.098		0.098	ug/L		07/13/26 13:50	07/14/26 13:26	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		07/13/26 13:50	07/14/26 13:26	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		07/13/26 13:50	07/14/26 13:26	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		07/13/26 13:50	07/14/26 13:26	1
Dieldrin	<0.0098	^3+	0.0098	ug/L		07/13/26 13:50	07/14/26 13:26	1
Diethylphthalate	<0.49		0.49	ug/L		07/13/26 13:50	07/14/26 13:26	1
Dimethylphthalate	<0.49		0.49	ug/L		07/13/26 13:50	07/14/26 13:26	1
Di-n-butyl phthalate	<0.98		0.98	ug/L		07/13/26 13:50	07/14/26 13:26	1
Di-n-octyl phthalate	<0.098		0.098	ug/L		07/13/26 13:50	07/14/26 13:26	1
Endosulfan I (Alpha)	<0.098		0.098	ug/L		07/13/26 13:50	07/14/26 13:26	1
Endosulfan II (Beta)	<0.098		0.098	ug/L		07/13/26 13:50	07/14/26 13:26	1
Endosulfan sulfate	<0.098		0.098	ug/L		07/13/26 13:50	07/14/26 13:26	1
Endrin	<0.0098		0.0098	ug/L		07/13/26 13:50	07/14/26 13:26	1
Endrin aldehyde	<0.098		0.098	ug/L		07/13/26 13:50	07/14/26 13:26	1
EPTC	<0.098		0.098	ug/L		07/13/26 13:50	07/14/26 13:26	1

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QC Sample Results

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

Job ID: 380-223446-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: MB 380-239255/21-A

Matrix: Water

Analysis Batch: 239523

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 239255

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.098		0.098	ug/L		07/13/26 13:50	07/14/26 13:26	1
Fluorene	<0.049		0.049	ug/L		07/13/26 13:50	07/14/26 13:26	1
gamma-Chlordane	<0.049		0.049	ug/L		07/13/26 13:50	07/14/26 13:26	1
Heptachlor	<0.0098		0.0098	ug/L		07/13/26 13:50	07/14/26 13:26	1
Heptachlor epoxide (isomer B)	<0.0098		0.0098	ug/L		07/13/26 13:50	07/14/26 13:26	1
Hexachlorobenzene	<0.049		0.049	ug/L		07/13/26 13:50	07/14/26 13:26	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		07/13/26 13:50	07/14/26 13:26	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		07/13/26 13:50	07/14/26 13:26	1
Isophorone	<0.098		0.098	ug/L		07/13/26 13:50	07/14/26 13:26	1
Lindane	<0.0098		0.0098	ug/L		07/13/26 13:50	07/14/26 13:26	1
Malathion	<0.098		0.098	ug/L		07/13/26 13:50	07/14/26 13:26	1
Methoxychlor	<0.049		0.049	ug/L		07/13/26 13:50	07/14/26 13:26	1
Metolachlor	<0.049		0.049	ug/L		07/13/26 13:50	07/14/26 13:26	1
Molinate	<0.098		0.098	ug/L		07/13/26 13:50	07/14/26 13:26	1
Naphthalene	<0.098		0.098	ug/L		07/13/26 13:50	07/14/26 13:26	1
Parathion	<0.098		0.098	ug/L		07/13/26 13:50	07/14/26 13:26	1
Pendimethalin (Penoxaline)	<0.098		0.098	ug/L		07/13/26 13:50	07/14/26 13:26	1
Phenanthrene	<0.039		0.039	ug/L		07/13/26 13:50	07/14/26 13:26	1
Propachlor	<0.049		0.049	ug/L		07/13/26 13:50	07/14/26 13:26	1
Pyrene	<0.049		0.049	ug/L		07/13/26 13:50	07/14/26 13:26	1
Simazine	<0.049		0.049	ug/L		07/13/26 13:50	07/14/26 13:26	1
Terbacil	<0.098		0.098	ug/L		07/13/26 13:50	07/14/26 13:26	1
Terbutylazine	<0.098		0.098	ug/L		07/13/26 13:50	07/14/26 13:26	1
Thiobencarb	<0.098		0.098	ug/L		07/13/26 13:50	07/14/26 13:26	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		07/13/26 13:50	07/14/26 13:26	1
trans-Nonachlor	<0.049		0.049	ug/L		07/13/26 13:50	07/14/26 13:26	1
Trifluralin	<0.098		0.098	ug/L		07/13/26 13:50	07/14/26 13:26	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Bacchotricuneatin c	0.579	T J N	ug/L		3.10	66563-30-2	07/13/26 13:50	07/14/26 13:26	1
Undecane	4.81	T J N	ug/L		3.23	1120-21-4	07/13/26 13:50	07/14/26 13:26	1
Unknown	0.930	T J	ug/L		3.99	N/A	07/13/26 13:50	07/14/26 13:26	1
Unknown	0.512	T J	ug/L		4.79	N/A	07/13/26 13:50	07/14/26 13:26	1
9-Octadecenamide, (Z)-	2.59	T J N	ug/L		8.09	301-02-0	07/13/26 13:50	07/14/26 13:26	1
13-Docosenamide, (Z)-	1.40	T J N	ug/L		10.67	112-84-5	07/13/26 13:50	07/14/26 13:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	98		70 - 130	07/13/26 13:50	07/14/26 13:26	1
Perylene-d12	91		70 - 130	07/13/26 13:50	07/14/26 13:26	1
Triphenylphosphate	108		70 - 130	07/13/26 13:50	07/14/26 13:26	1

Lab Sample ID: LCS 380-239255/23-A

Matrix: Water

Analysis Batch: 239523

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 239255

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	1.97	2.04		ug/L		104	70 - 130
2,4'-DDD	1.97	2.09		ug/L		106	70 - 130

Eurofins Pomona

QC Sample Results

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

Job ID: 380-223446-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: LCS 380-239255/23-A

Matrix: Water

Analysis Batch: 239523

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 239255

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4'-DDE	1.97	2.07		ug/L		105	70 - 130
2,4'-DDT	1.97	2.18		ug/L		111	70 - 130
2,4-Dinitrotoluene	1.97	2.21		ug/L		112	70 - 130
2,6-Dinitrotoluene	1.97	2.08		ug/L		106	70 - 130
2-Methylnaphthalene	1.97	2.02		ug/L		103	70 - 130
4,4'-DDD	1.97	2.07		ug/L		105	70 - 130
4,4'-DDE	1.97	2.11		ug/L		107	70 - 130
4,4'-DDT	1.97	2.24		ug/L		114	70 - 130
Acenaphthene	1.97	1.98		ug/L		101	70 - 130
Acenaphthylene	1.97	1.77		ug/L		90	70 - 130
Acetochlor	1.97	2.15		ug/L		109	70 - 130
Alachlor	1.97	2.17		ug/L		110	70 - 130
alpha-BHC	1.97	2.12		ug/L		108	70 - 130
alpha-Chlordane	1.97	2.18		ug/L		111	70 - 130
Anthracene	1.97	1.94		ug/L		99	70 - 130
Atrazine	1.97	2.15		ug/L		109	70 - 130
Benz(a)anthracene	1.97	1.98		ug/L		100	70 - 130
Benzo[a]pyrene	1.97	1.94		ug/L		98	70 - 130
Benzo[b]fluoranthene	1.97	2.03		ug/L		103	70 - 130
Benzo[g,h,i]perylene	1.97	1.87		ug/L		95	70 - 130
Benzo[k]fluoranthene	1.97	1.97		ug/L		100	70 - 130
beta-BHC	1.97	2.00		ug/L		102	70 - 130
Bis(2-ethylhexyl) phthalate	1.97	2.12		ug/L		108	70 - 130
Bromacil	1.97	2.11		ug/L		107	70 - 130
Butachlor	1.97	2.31		ug/L		117	70 - 130
Butylbenzylphthalate	1.97	2.18		ug/L		111	70 - 130
Chlorobenzilate	1.97	2.08		ug/L		106	70 - 130
Chloroneb	1.97	2.05		ug/L		104	70 - 130
Chlorothalonil (Draconil, Bravo)	1.97	2.08		ug/L		106	70 - 130
Chlorpyrifos	1.97	2.21		ug/L		113	70 - 130
Chrysene	1.97	2.08		ug/L		106	70 - 130
delta-BHC	1.97	2.20		ug/L		112	70 - 130
Di(2-ethylhexyl)adipate	1.97	2.29		ug/L		117	70 - 130
Dibenz(a,h)anthracene	1.97	1.94		ug/L		99	70 - 130
Diclorvos (DDVP)	1.97	2.14		ug/L		109	70 - 130
Dieldrin	1.97	2.12		ug/L		108	70 - 130
Diethylphthalate	1.97	2.10		ug/L		107	70 - 130
Dimethylphthalate	1.97	2.19		ug/L		111	70 - 130
Di-n-butyl phthalate	3.94	4.22		ug/L		107	70 - 130
Di-n-octyl phthalate	1.97	2.14		ug/L		109	70 - 130
Endosulfan I (Alpha)	1.97	2.05		ug/L		104	70 - 130
Endosulfan II (Beta)	1.97	2.13		ug/L		108	70 - 130
Endosulfan sulfate	1.97	2.02		ug/L		102	70 - 130
Endrin	1.97	2.27		ug/L		115	70 - 130
Endrin aldehyde	1.97	2.18		ug/L		111	60 - 130
EPTC	1.97	2.18		ug/L		111	70 - 130
Fluoranthene	1.97	2.18		ug/L		111	70 - 130
Fluorene	1.97	2.01		ug/L		102	70 - 130
gamma-Chlordane	1.97	2.17		ug/L		110	70 - 130

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QC Sample Results

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

Job ID: 380-223446-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: LCS 380-239255/23-A

Matrix: Water

Analysis Batch: 239523

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 239255

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Heptachlor	1.97	2.24		ug/L		114	70 - 130
Heptachlor epoxide (isomer B)	1.97	2.19		ug/L		111	70 - 130
Hexachlorobenzene	1.97	2.03		ug/L		103	70 - 130
Hexachlorocyclopentadiene	1.97	2.30		ug/L		117	70 - 130
Indeno[1,2,3-cd]pyrene	1.97	1.94		ug/L		99	70 - 130
Isophorone	1.97	2.12		ug/L		108	70 - 130
Lindane	1.97	2.16		ug/L		110	70 - 130
Malathion	1.97	2.15		ug/L		109	70 - 130
Methoxychlor	1.97	2.26		ug/L		115	70 - 130
Metolachlor	1.97	2.21		ug/L		112	70 - 130
Molinate	1.97	2.05		ug/L		104	70 - 130
Naphthalene	1.97	1.94		ug/L		99	70 - 130
Parathion	1.97	2.20		ug/L		112	70 - 130
Pendimethalin (Penoxaline)	1.97	2.29		ug/L		116	70 - 130
Phenanthrene	1.97	1.99		ug/L		101	70 - 130
Propachlor	1.97	2.24		ug/L		114	70 - 130
Pyrene	1.97	2.09		ug/L		106	70 - 130
Simazine	1.97	2.04		ug/L		104	70 - 130
Terbacil	1.97	2.23		ug/L		113	70 - 130
Terbutylazine	1.97	2.22		ug/L		113	70 - 130
Thiobencarb	1.97	2.16		ug/L		110	70 - 130
trans-Nonachlor	1.97	2.28		ug/L		116	70 - 130
Trifluralin	1.97	2.13		ug/L		108	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Nitro-m-xylene	97		70 - 130
Perylene-d12	94		70 - 130
Triphenylphosphate	110		70 - 130

Lab Sample ID: MRL 380-239255/22-A

Matrix: Water

Analysis Batch: 239523

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 239255

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	0.0981	0.101		ug/L		103	50 - 150
2,4'-DDD	0.0981	0.0951	J	ug/L		97	50 - 150
2,4'-DDE	0.0981	0.103		ug/L		105	50 - 150
2,4'-DDT	0.0981	0.124		ug/L		126	50 - 150
2,4-Dinitrotoluene	0.0981	0.129		ug/L		131	50 - 150
2,6-Dinitrotoluene	0.0981	0.113		ug/L		115	50 - 150
2-Methylnaphthalene	0.0981	0.0993		ug/L		101	50 - 150
4,4'-DDD	0.0981	0.115		ug/L		117	50 - 150
4,4'-DDE	0.0981	0.102		ug/L		104	50 - 150
4,4'-DDT	0.0981	0.112		ug/L		115	50 - 150
Acenaphthene	0.0981	0.0931	J	ug/L		95	50 - 150
Acenaphthylene	0.0981	0.0774	J	ug/L		79	50 - 150
Acetochlor	0.0981	0.104		ug/L		106	50 - 150
Alachlor	0.0490	0.0580		ug/L		118	50 - 150

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QC Sample Results

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

Job ID: 380-223446-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: MRL 380-239255/22-A

Matrix: Water

Analysis Batch: 239523

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 239255

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
alpha-BHC	0.0981	0.0995		ug/L		101	50 - 150
alpha-Chlordane	0.0245	0.0310	J	ug/L		127	50 - 150
Anthracene	0.0196	0.0226		ug/L		115	50 - 150
Atrazine	0.0490	0.0616		ug/L		126	50 - 150
Benz(a)anthracene	0.0490	0.0548		ug/L		112	50 - 150
Benzo[a]pyrene	0.0196	0.0209		ug/L		106	50 - 150
Benzo[b]fluoranthene	0.0196	0.0227		ug/L		116	50 - 150
Benzo[g,h,i]perylene	0.0490	0.0492		ug/L		100	50 - 150
Benzo[k]fluoranthene	0.0196	0.0244		ug/L		124	50 - 150
beta-BHC	0.0981	0.108		ug/L		110	50 - 150
Bis(2-ethylhexyl) phthalate	0.589	0.623		ug/L		106	50 - 150
Bromacil	0.0981	0.137		ug/L		140	50 - 150
Butachlor	0.0490	0.0624		ug/L		127	50 - 150
Butylbenzylphthalate	0.490	0.555		ug/L		113	50 - 150
Chlorobenzilate	0.0981	0.108		ug/L		110	50 - 150
Chloroneb	0.0981	0.101		ug/L		103	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0981	0.117		ug/L		120	50 - 150
Chlorpyrifos	0.0490	0.0539		ug/L		110	50 - 150
Chrysene	0.0196	0.0230		ug/L		117	50 - 150
delta-BHC	0.0981	0.101		ug/L		103	50 - 150
Di(2-ethylhexyl)adipate	0.589	0.691		ug/L		117	50 - 150
Dibenz(a,h)anthracene	0.0490	0.0515		ug/L		105	50 - 150
Diclorvos (DDVP)	0.0490	0.0592		ug/L		121	50 - 150
Dieldrin	0.00981	0.0162	^3+	ug/L		165	50 - 150
Diethylphthalate	0.490	0.528		ug/L		108	50 - 150
Dimethylphthalate	0.490	0.538		ug/L		110	50 - 150
Di-n-butyl phthalate	0.490	0.607	J	ug/L		124	49 - 243
Di-n-octyl phthalate	0.0981	0.109		ug/L		111	50 - 150
Endosulfan I (Alpha)	0.0981	0.105		ug/L		107	50 - 150
Endosulfan II (Beta)	0.0981	0.125		ug/L		127	50 - 150
Endosulfan sulfate	0.0981	0.113		ug/L		115	50 - 150
Endrin	0.00981	0.00959	J	ug/L		98	50 - 150
Endrin aldehyde	0.0981	0.112		ug/L		114	50 - 150
EPTC	0.0981	0.0975	J	ug/L		99	50 - 150
Fluoranthene	0.0981	0.107		ug/L		109	50 - 150
Fluorene	0.0490	0.0515		ug/L		105	50 - 150
gamma-Chlordane	0.0245	0.0280	J	ug/L		114	50 - 150
Heptachlor	0.00981	0.0139		ug/L		142	50 - 150
Heptachlor epoxide (isomer B)	0.00981	0.0144		ug/L		147	50 - 150
Hexachlorobenzene	0.0490	0.0490		ug/L		100	50 - 150
Hexachlorocyclopentadiene	0.0490	0.0647		ug/L		132	50 - 150
Indeno[1,2,3-cd]pyrene	0.0490	0.0521		ug/L		106	50 - 150
Isophorone	0.0981	0.0920	J	ug/L		94	50 - 150
Lindane	0.00981	0.0139		ug/L		142	50 - 150
Malathion	0.0981	0.112		ug/L		114	50 - 150
Methoxychlor	0.0490	0.0647		ug/L		132	50 - 150
Metolachlor	0.0490	0.0545		ug/L		111	50 - 150
Molinate	0.0981	0.102		ug/L		104	50 - 150
Naphthalene	0.0981	0.0888	J	ug/L		91	50 - 150

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QC Sample Results

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

Job ID: 380-223446-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: MRL 380-239255/22-A

Matrix: Water

Analysis Batch: 239523

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 239255

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Parathion	0.0981	0.108		ug/L		110	50 - 150
Pendimethalin (Penoxaline)	0.0981	0.125		ug/L		128	50 - 150
Phenanthrene	0.0392	0.0432		ug/L		110	50 - 150
Propachlor	0.0490	0.0564		ug/L		115	50 - 150
Pyrene	0.0490	0.0544		ug/L		111	50 - 150
Simazine	0.0490	0.0593		ug/L		121	50 - 150
Terbacil	0.0981	0.126		ug/L		128	50 - 150
Terbutylazine	0.0981	0.119		ug/L		121	50 - 150
Thiobencarb	0.0981	0.111		ug/L		113	50 - 150
trans-Nonachlor	0.0245	0.0319	J	ug/L		130	50 - 150
Trifluralin	0.0981	0.111		ug/L		113	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
2-Nitro-m-xylene	97		70 - 130
Perylene-d12	91		70 - 130
Triphenylphosphate	112		70 - 130

Lab Sample ID: 380-223744-AH-1-A MS

Matrix: Water

Analysis Batch: 239523

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 239255

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.097		1.97	2.04		ug/L		103	70 - 130
2,4'-DDD	<0.097		1.97	2.11		ug/L		107	70 - 130
2,4'-DDE	<0.097		1.97	2.07		ug/L		105	70 - 130
2,4'-DDT	<0.097		1.97	2.18		ug/L		109	70 - 130
2,4-Dinitrotoluene	<0.097		1.97	2.31		ug/L		118	70 - 130
2,6-Dinitrotoluene	<0.097		1.97	2.15		ug/L		109	70 - 130
2-Methylnaphthalene	<0.097		1.97	2.03		ug/L		103	70 - 130
4,4'-DDD	<0.097		1.97	2.10		ug/L		106	70 - 130
4,4'-DDE	<0.097		1.97	2.13		ug/L		108	70 - 130
4,4'-DDT	<0.097		1.97	2.28		ug/L		116	70 - 130
Acenaphthene	<0.097		1.97	2.01		ug/L		102	70 - 130
Acenaphthylene	<0.097		1.97	1.85		ug/L		94	70 - 130
Acetochlor	<0.097		1.97	2.11		ug/L		107	70 - 130
Alachlor	<0.049		1.97	2.11		ug/L		108	70 - 130
alpha-BHC	<0.097		1.97	2.14		ug/L		109	70 - 130
alpha-Chlordane	<0.049		1.97	2.15		ug/L		109	70 - 130
Anthracene	<0.019		1.97	1.98		ug/L		100	70 - 130
Atrazine	<0.049		1.97	2.25		ug/L		114	70 - 130
Benz(a)anthracene	<0.049		1.97	2.11		ug/L		107	70 - 130
Benzo[a]pyrene	<0.019		1.97	2.02		ug/L		102	70 - 130
Benzo[b]fluoranthene	<0.019		1.97	2.09		ug/L		106	70 - 130
Benzo[g,h,i]perylene	<0.049		1.97	1.94		ug/L		99	70 - 130
Benzo[k]fluoranthene	<0.019		1.97	2.01		ug/L		102	70 - 130
beta-BHC	<0.097		1.97	2.12		ug/L		108	70 - 130
Bis(2-ethylhexyl) phthalate	<0.58		1.97	2.03		ug/L		103	70 - 130
Bromacil	<0.097		1.97	2.24		ug/L		114	70 - 130

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QC Sample Results

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

Job ID: 380-223446-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: 380-223744-AH-1-A MS

Matrix: Water

Analysis Batch: 239523

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 239255

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Butachlor	<0.049		1.97	2.27		ug/L		116	70 - 130
Butylbenzylphthalate	<0.49		1.97	2.14		ug/L		109	70 - 130
Chlorobenzilate	<0.097		1.97	2.10		ug/L		106	70 - 130
Chloroneb	<0.097		1.97	2.04		ug/L		104	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.097		1.97	2.16		ug/L		110	70 - 130
Chlorpyrifos	<0.049		1.97	2.16		ug/L		110	70 - 130
Chrysene	<0.019		1.97	2.08		ug/L		105	70 - 130
delta-BHC	<0.097		1.97	2.24		ug/L		114	70 - 130
Di(2-ethylhexyl)adipate	<0.58		1.97	2.28		ug/L		116	70 - 130
Dibenz(a,h)anthracene	<0.049		1.97	1.96		ug/L		100	70 - 130
Diclorvos (DDVP)	<0.049		1.97	2.10		ug/L		107	70 - 130
Dieldrin	0.010	^3+	1.97	2.08		ug/L		105	70 - 130
Diethylphthalate	<0.49		1.97	2.09		ug/L		106	70 - 130
Dimethylphthalate	<0.49		1.97	2.19		ug/L		112	70 - 130
Di-n-butyl phthalate	<0.97		3.93	4.16		ug/L		102	70 - 130
Di-n-octyl phthalate	<0.097		1.97	2.11		ug/L		107	70 - 130
Endosulfan I (Alpha)	<0.097		1.97	2.00		ug/L		102	70 - 130
Endosulfan II (Beta)	<0.097		1.97	2.07		ug/L		105	70 - 130
Endosulfan sulfate	<0.097		1.97	2.01		ug/L		102	70 - 130
Endrin	<0.0097		1.97	2.29		ug/L		117	70 - 130
Endrin aldehyde	<0.097		1.97	2.16		ug/L		110	60 - 130
EPTC	<0.097		1.97	2.13		ug/L		108	70 - 130
Fluoranthene	<0.097		1.97	2.26		ug/L		115	70 - 130
Fluorene	<0.049		1.97	2.05		ug/L		104	70 - 130
gamma-Chlordane	<0.049		1.97	2.14		ug/L		108	70 - 130
Heptachlor	<0.0097		1.97	2.18		ug/L		111	70 - 130
Heptachlor epoxide (isomer B)	<0.0097		1.97	2.13		ug/L		108	70 - 130
Hexachlorobenzene	<0.049		1.97	2.10		ug/L		107	70 - 130
Hexachlorocyclopentadiene	<0.049		1.97	2.32		ug/L		118	70 - 130
Indeno[1,2,3-cd]pyrene	<0.049		1.97	2.03		ug/L		103	70 - 130
Isophorone	<0.097		1.97	2.11		ug/L		107	70 - 130
Lindane	<0.0097		1.97	2.20		ug/L		112	70 - 130
Malathion	<0.097		1.97	2.15		ug/L		108	70 - 130
Methoxychlor	<0.049		1.97	2.23		ug/L		114	70 - 130
Metolachlor	<0.049		1.97	2.15		ug/L		110	70 - 130
Molinate	<0.097		1.97	2.07		ug/L		105	70 - 130
Naphthalene	<0.097		1.97	1.95		ug/L		99	70 - 130
Parathion	<0.097		1.97	2.24		ug/L		114	70 - 130
Pendimethalin (Penoxaline)	<0.097		1.97	2.34		ug/L		119	70 - 130
Phenanthrene	<0.039		1.97	2.01		ug/L		102	70 - 130
Propachlor	<0.049		1.97	2.26		ug/L		115	70 - 130
Pyrene	<0.049		1.97	2.16		ug/L		109	70 - 130
Simazine	<0.049		1.97	2.17		ug/L		109	70 - 130
Terbacil	<0.097		1.97	2.32		ug/L		118	70 - 130
Terbutylazine	<0.097		1.97	2.29		ug/L		116	70 - 130
Thiobencarb	<0.097		1.97	2.20		ug/L		112	70 - 130
trans-Nonachlor	<0.049		1.97	2.24		ug/L		113	70 - 130
Trifluralin	<0.097		1.97	2.14		ug/L		109	70 - 130

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QC Sample Results

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

Job ID: 380-223446-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: 380-223744-AH-1-A MS
Matrix: Water
Analysis Batch: 239523

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 239255

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Nitro-m-xylene	98		70 - 130
Perylene-d12	97		70 - 130
Triphenylphosphate	111		70 - 130

Lab Sample ID: 380-223748-AH-1-A DU
Matrix: Water
Analysis Batch: 239523

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 239255

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
1-Methylnaphthalene	<0.098		<0.099		ug/L		NC	20
2,4'-DDD	<0.098		<0.099		ug/L		NC	20
2,4'-DDE	<0.098		<0.099		ug/L		NC	20
2,4'-DDT	<0.098		<0.099		ug/L		NC	20
2,4-Dinitrotoluene	<0.098		<0.099		ug/L		NC	20
2,6-Dinitrotoluene	<0.098		<0.099		ug/L		NC	20
2-Methylnaphthalene	<0.098		<0.099		ug/L		NC	20
4,4'-DDD	<0.098		<0.099		ug/L		NC	20
4,4'-DDE	<0.098		<0.099		ug/L		NC	20
4,4'-DDT	<0.098		<0.099		ug/L		NC	20
Acenaphthene	<0.098		<0.099		ug/L		NC	20
Acenaphthylene	<0.098		<0.099		ug/L		NC	20
Acetochlor	<0.098		<0.099		ug/L		NC	20
Alachlor	<0.049		<0.049		ug/L		NC	20
alpha-BHC	<0.098		<0.099		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		<0.020		ug/L		NC	20
Benzo[b]fluoranthene	<0.020		<0.020		ug/L		NC	20
Benzo[g,h,i]perylene	<0.049		<0.049		ug/L		NC	20
Benzo[k]fluoranthene	<0.020		<0.020		ug/L		NC	20
beta-BHC	<0.098		<0.099		ug/L		NC	20
Bis(2-ethylhexyl) phthalate	<0.59		<0.59		ug/L		NC	20
Bromacil	<0.098		<0.099		ug/L		NC	20
Butachlor	<0.049		<0.049		ug/L		NC	20
Butylbenzylphthalate	<0.49		<0.49		ug/L		NC	20
Chlorobenzilate	<0.098		<0.099		ug/L		NC	20
Chloroneb	<0.098		<0.099		ug/L		NC	20
Chlorothalonil (Draconil, Bravo)	<0.098		<0.099		ug/L		NC	20
Chlorpyrifos	<0.049		<0.049		ug/L		NC	20
Chrysene	<0.020		<0.020		ug/L		NC	20
delta-BHC	<0.098		<0.099		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	<0.0098	^3+	<0.0099		ug/L		NC	20
Diethylphthalate	<0.49		<0.49		ug/L		NC	20

Eurofins Pomona

QC Sample Results

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

Job ID: 380-223446-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: 380-223748-AH-1-A DU

Matrix: Water

Analysis Batch: 239523

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 239255

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Dimethylphthalate	<0.49		<0.49		ug/L		NC	20
Di-n-butyl phthalate	<0.98		<0.99		ug/L		NC	20
Di-n-octyl phthalate	<0.098		<0.099		ug/L		NC	20
Endosulfan I (Alpha)	<0.098		<0.099		ug/L		NC	20
Endosulfan II (Beta)	<0.098		<0.099		ug/L		NC	20
Endosulfan sulfate	<0.098		<0.099		ug/L		NC	20
Endrin	<0.0098		<0.0099		ug/L		NC	20
Endrin aldehyde	<0.098		<0.099		ug/L		NC	20
EPTC	<0.098		<0.099		ug/L		NC	20
Fluoranthene	<0.098		<0.099		ug/L		NC	20
Fluorene	<0.049		<0.049		ug/L		NC	20
gamma-Chlordane	<0.049		<0.049		ug/L		NC	20
Heptachlor	<0.0098		<0.0099		ug/L		NC	20
Heptachlor epoxide (isomer B)	<0.0098		<0.0099		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	<0.098		<0.099		ug/L		NC	20
Lindane	<0.0098		<0.0099		ug/L		NC	20
Malathion	<0.098		<0.099		ug/L		NC	20
Methoxychlor	<0.049		<0.049		ug/L		NC	20
Metolachlor	<0.049		<0.049		ug/L		NC	20
Molinate	<0.098		<0.099		ug/L		NC	20
Naphthalene	<0.098		<0.099		ug/L		NC	20
Parathion	<0.098		<0.099		ug/L		NC	20
Pendimethalin (Penoxaline)	<0.098		<0.099		ug/L		NC	20
Phenanthrene	<0.039		<0.040		ug/L		NC	20
Propachlor	<0.049		<0.049		ug/L		NC	20
Pyrene	<0.049		<0.049		ug/L		NC	20
Simazine	<0.049		<0.049		ug/L		NC	20
Terbacil	<0.098		<0.099		ug/L		NC	20
Terbutylazine	<0.098		<0.099		ug/L		NC	20
Thiobencarb	<0.098		<0.099		ug/L		NC	20
Total Permethrin (mixed isomers)	<0.20		<0.20		ug/L		NC	20
trans-Nonachlor	<0.049		<0.049		ug/L		NC	20
Trifluralin	<0.098		<0.099		ug/L		NC	20

Surrogate	DU %Recovery	DU Qualifier	Limits
2-Nitro-m-xylene	99		70 - 130
Perylene-d12	95		70 - 130
Triphenylphosphate	112		70 - 130

QC Sample Results

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

Job ID: 380-223446-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: MB 570-767443/1-A
Matrix: Water
Analysis Batch: 769166

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 767443

<i>Tentatively Identified Compound</i>	<i>Est. Result</i>	<i>MB MB Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>RT</i>	<i>CAS No.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Tentatively Identified Compound</i>	<i>None</i>		<i>ug/L</i>			<i>N/A</i>	07/11/26 08:30	07/15/26 10:10	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>MB MB Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
2,4,6-Tribromophenol (Surr)	66		33 - 139				07/11/26 08:30	07/15/26 10:10	1
2-Fluorobiphenyl (Surr)	67		33 - 126				07/11/26 08:30	07/15/26 10:10	1
2-Fluorophenol (Surr)	47		12 - 120				07/11/26 08:30	07/15/26 10:10	1
Nitrobenzene-d5 (Surr)	72		36 - 120				07/11/26 08:30	07/15/26 10:10	1
Phenol-d6 (Surr)	29		10 - 120				07/11/26 08:30	07/15/26 10:10	1
p-Terphenyl-d14 (Surr)	80		47 - 131				07/11/26 08:30	07/15/26 10:10	1

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

Lab Sample ID: MB 570-767443/1-A
Matrix: Water
Analysis Batch: 768335

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 767443

<i>Analyte</i>	<i>Result</i>	<i>MB MB Qualifier</i>	<i>RL</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1-Methylnaphthalene	<0.20		0.20	ug/L		07/11/26 08:30	07/13/26 21:14	1
2-Methylnaphthalene	<0.20		0.20	ug/L		07/11/26 08:30	07/13/26 21:14	1
Acenaphthene	<0.20		0.20	ug/L		07/11/26 08:30	07/13/26 21:14	1
Acenaphthylene	<0.20		0.20	ug/L		07/11/26 08:30	07/13/26 21:14	1
Anthracene	<0.20		0.20	ug/L		07/11/26 08:30	07/13/26 21:14	1
Benzo[a]anthracene	<0.20		0.20	ug/L		07/11/26 08:30	07/13/26 21:14	1
Benzo[a]pyrene	<0.20		0.20	ug/L		07/11/26 08:30	07/13/26 21:14	1
Benzo[b]fluoranthene	<0.20		0.20	ug/L		07/11/26 08:30	07/13/26 21:14	1
Benzo[g,h,i]perylene	<0.20		0.20	ug/L		07/11/26 08:30	07/13/26 21:14	1
Benzo[k]fluoranthene	<0.20		0.20	ug/L		07/11/26 08:30	07/13/26 21:14	1
Chrysene	<0.20		0.20	ug/L		07/11/26 08:30	07/13/26 21:14	1
Dibenz(a,h)anthracene	<0.20		0.20	ug/L		07/11/26 08:30	07/13/26 21:14	1
Fluoranthene	<0.20		0.20	ug/L		07/11/26 08:30	07/13/26 21:14	1
Fluorene	<0.20		0.20	ug/L		07/11/26 08:30	07/13/26 21:14	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20	ug/L		07/11/26 08:30	07/13/26 21:14	1
Naphthalene	<0.20		0.20	ug/L		07/11/26 08:30	07/13/26 21:14	1
Phenanthrene	<0.20		0.20	ug/L		07/11/26 08:30	07/13/26 21:14	1
Pyrene	<0.20		0.20	ug/L		07/11/26 08:30	07/13/26 21:14	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>MB MB Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
2,4,6-Tribromophenol (Surr)	84		28 - 127			07/11/26 08:30	07/13/26 21:14	1
2-Fluorobiphenyl (Surr)	66		31 - 120			07/11/26 08:30	07/13/26 21:14	1
2-Fluorophenol (Surr)	48		17 - 120			07/11/26 08:30	07/13/26 21:14	1
Nitrobenzene-d5 (Surr)	74		27 - 120			07/11/26 08:30	07/13/26 21:14	1
Phenol-d6 (Surr)	28		10 - 120			07/11/26 08:30	07/13/26 21:14	1
p-Terphenyl-d14 (Surr)	75		45 - 120			07/11/26 08:30	07/13/26 21:14	1

QC Sample Results

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

Job ID: 380-223446-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: LCS 570-767443/2-A

Matrix: Water

Analysis Batch: 768335

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 767443

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	20.0	13.4		ug/L		67	47 - 120
2-Methylnaphthalene	20.0	12.3		ug/L		61	43 - 120
Acenaphthene	20.0	16.6		ug/L		83	60 - 132
Acenaphthylene	20.0	16.4		ug/L		82	54 - 126
Anthracene	20.0	16.3		ug/L		82	43 - 120
Benzo[a]anthracene	20.0	18.4		ug/L		92	42 - 133
Benzo[a]pyrene	20.0	18.2		ug/L		91	32 - 148
Benzo[b]fluoranthene	20.0	17.3		ug/L		86	42 - 140
Benzo[g,h,i]perylene	20.0	17.2		ug/L		86	1 - 195
Benzo[k]fluoranthene	20.0	17.1		ug/L		86	25 - 146
Chrysene	20.0	17.2		ug/L		86	44 - 140
Dibenz(a,h)anthracene	20.0	17.7		ug/L		88	1 - 200
Fluoranthene	20.0	17.2		ug/L		86	43 - 121
Fluorene	20.0	17.9		ug/L		89	70 - 120
Indeno[1,2,3-cd]pyrene	20.0	17.6		ug/L		88	1 - 151
Naphthalene	20.0	12.6		ug/L		63	36 - 120
Phenanthrene	20.0	17.0		ug/L		85	65 - 120
Pyrene	20.0	18.5		ug/L		93	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	90		28 - 127
2-Fluorobiphenyl (Surr)	82		31 - 120
2-Fluorophenol (Surr)	67		17 - 120
Nitrobenzene-d5 (Surr)	71		27 - 120
Phenol-d6 (Surr)	42		10 - 120
p-Terphenyl-d14 (Surr)	93		45 - 120

Lab Sample ID: LCSD 570-767443/3-A

Matrix: Water

Analysis Batch: 768335

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 767443

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	20.0	13.9		ug/L		69	47 - 120	3	20
2-Methylnaphthalene	20.0	12.4		ug/L		62	43 - 120	1	20
Acenaphthene	20.0	16.6		ug/L		83	60 - 132	0	29
Acenaphthylene	20.0	16.7		ug/L		83	54 - 126	2	45
Anthracene	20.0	16.0		ug/L		80	43 - 120	2	40
Benzo[a]anthracene	20.0	18.7		ug/L		94	42 - 133	2	32
Benzo[a]pyrene	20.0	18.7		ug/L		94	32 - 148	3	43
Benzo[b]fluoranthene	20.0	18.1		ug/L		91	42 - 140	5	43
Benzo[g,h,i]perylene	20.0	17.6		ug/L		88	1 - 195	2	61
Benzo[k]fluoranthene	20.0	17.4		ug/L		87	25 - 146	1	38
Chrysene	20.0	17.7		ug/L		88	44 - 140	3	53
Dibenz(a,h)anthracene	20.0	18.3		ug/L		92	1 - 200	4	75
Fluoranthene	20.0	17.1		ug/L		85	43 - 121	1	40
Fluorene	20.0	18.0		ug/L		90	70 - 120	0	23
Indeno[1,2,3-cd]pyrene	20.0	17.8		ug/L		89	1 - 151	1	60
Naphthalene	20.0	13.0		ug/L		65	36 - 120	2	39

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QC Sample Results

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

Job ID: 380-223446-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: LCSD 570-767443/3-A

Matrix: Water

Analysis Batch: 768335

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 767443

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenanthrene	20.0	16.9		ug/L		85	65 - 120	1	24
Pyrene	20.0	18.9		ug/L		94	70 - 120	2	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
2,4,6-Tribromophenol (Surr)	88		28 - 127
2-Fluorobiphenyl (Surr)	81		31 - 120
2-Fluorophenol (Surr)	71		17 - 120
Nitrobenzene-d5 (Surr)	73		27 - 120
Phenol-d6 (Surr)	45		10 - 120
p-Terphenyl-d14 (Surr)	96		45 - 120

Lab Sample ID: 380-223448-A-1-A MS

Matrix: Water

Analysis Batch: 768335

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 767443

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.19		19.6	13.9		ug/L		71	36 - 120
2-Methylnaphthalene	<0.19		19.6	12.6		ug/L		65	32 - 124
Acenaphthene	<0.19		19.6	16.0		ug/L		82	47 - 145
Acenaphthylene	<0.19		19.6	15.8		ug/L		81	33 - 145
Anthracene	<0.19		19.6	15.5		ug/L		79	27 - 133
Benzo[a]anthracene	<0.19		19.6	17.4		ug/L		89	33 - 143
Benzo[a]pyrene	<0.19		19.6	17.6		ug/L		90	17 - 163
Benzo[b]fluoranthene	<0.19		19.6	16.7		ug/L		86	24 - 159
Benzo[g,h,i]perylene	<0.19		19.6	15.9		ug/L		81	1 - 219
Benzo[k]fluoranthene	<0.19		19.6	15.7		ug/L		80	11 - 162
Chrysene	<0.19		19.6	16.3		ug/L		83	17 - 168
Dibenz(a,h)anthracene	<0.19		19.6	16.3		ug/L		83	1 - 227
Fluoranthene	<0.19		19.6	16.4		ug/L		84	26 - 137
Fluorene	<0.19		19.6	17.1		ug/L		87	59 - 121
Indeno[1,2,3-cd]pyrene	<0.19		19.6	16.5		ug/L		84	1 - 171
Naphthalene	<0.19		19.6	12.7		ug/L		65	21 - 133
Phenanthrene	<0.19		19.6	16.1		ug/L		82	54 - 120
Pyrene	<0.19		19.6	17.5		ug/L		90	52 - 120

Surrogate	MS %Recovery	MS Qualifier	MS Limits
2,4,6-Tribromophenol (Surr)	84		28 - 127
2-Fluorobiphenyl (Surr)	80		31 - 120
2-Fluorophenol (Surr)	56		17 - 120
Nitrobenzene-d5 (Surr)	69		27 - 120
Phenol-d6 (Surr)	36		10 - 120
p-Terphenyl-d14 (Surr)	87		45 - 120

QC Sample Results

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

Job ID: 380-223446-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: 380-223448-A-1-B MSD

Matrix: Water

Analysis Batch: 768335

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 767443

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	<0.19		19.5	14.0		ug/L		72	36 - 120	1	30
2-Methylnaphthalene	<0.19		19.5	12.7		ug/L		65	32 - 124	1	30
Acenaphthene	<0.19		19.5	16.3		ug/L		84	47 - 145	2	48
Acenaphthylene	<0.19		19.5	15.9		ug/L		82	33 - 145	1	74
Anthracene	<0.19		19.5	15.5		ug/L		80	27 - 133	0	66
Benzo[a]anthracene	<0.19		19.5	17.7		ug/L		91	33 - 143	2	53
Benzo[a]pyrene	<0.19		19.5	17.8		ug/L		92	17 - 163	1	72
Benzo[b]fluoranthene	<0.19		19.5	17.1		ug/L		88	24 - 159	2	71
Benzo[g,h,i]perylene	<0.19		19.5	16.3		ug/L		84	1 - 219	2	97
Benzo[k]fluoranthene	<0.19		19.5	16.0		ug/L		82	11 - 162	2	63
Chrysene	<0.19		19.5	16.6		ug/L		85	17 - 168	2	87
Dibenz(a,h)anthracene	<0.19		19.5	16.6		ug/L		85	1 - 227	2	126
Fluoranthene	<0.19		19.5	16.6		ug/L		85	26 - 137	1	66
Fluorene	<0.19		19.5	17.3		ug/L		89	59 - 121	1	38
Indeno[1,2,3-cd]pyrene	<0.19		19.5	16.8		ug/L		86	1 - 171	2	99
Naphthalene	<0.19		19.5	12.8		ug/L		66	21 - 133	1	65
Phenanthrene	<0.19		19.5	16.1		ug/L		83	54 - 120	0	39
Pyrene	<0.19		19.5	17.8		ug/L		91	52 - 120	2	49

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
2,4,6-Tribromophenol (Surr)	88		28 - 127
2-Fluorobiphenyl (Surr)	83		31 - 120
2-Fluorophenol (Surr)	56		17 - 120
Nitrobenzene-d5 (Surr)	71		27 - 120
Phenol-d6 (Surr)	36		10 - 120
p-Terphenyl-d14 (Surr)	91		45 - 120

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

Lab Sample ID: MB 570-767974/6

Matrix: Water

Analysis Batch: 767974

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			07/13/26 12:04	1

Surrogate	MB %Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		38 - 134		07/13/26 12:04	1

Lab Sample ID: LCS 570-767974/3

Matrix: Water

Analysis Batch: 767974

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	370		ug/L		92	78 - 120

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QC Sample Results

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

Job ID: 380-223446-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: LCS 570-767974/3

Matrix: Water

Analysis Batch: 767974

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		38 - 134

Lab Sample ID: LCSD 570-767974/4

Matrix: Water

Analysis Batch: 767974

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	390		ug/L		98	78 - 120	5	10

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		38 - 134

Lab Sample ID: MRL 570-767974/5

Matrix: Water

Analysis Batch: 767974

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	12.9		ug/L		129	50 - 150		

	MRL	MRL	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		38 - 134

Lab Sample ID: 380-222429-C-1 MS

Matrix: Water

Analysis Batch: 767974

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	387		ug/L		97	68 - 122		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		38 - 134

Lab Sample ID: 380-222429-C-1 MSD

Matrix: Water

Analysis Batch: 767974

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	397		ug/L		99	68 - 122	3	18

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		38 - 134

Eurofins Pomona

QC Sample Results

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

Job ID: 380-223446-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: MB 570-770259/6

Matrix: Water

Analysis Batch: 770259

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			07/17/26 10:42	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		38 - 134				07/17/26 10:42	1

Lab Sample ID: LCS 570-770259/3

Matrix: Water

Analysis Batch: 770259

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	355		ug/L		89	78 - 120
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	95		38 - 134				

Lab Sample ID: LCSD 570-770259/4

Matrix: Water

Analysis Batch: 770259

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	364		ug/L		91	78 - 120	3	10
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	103		38 - 134						

Lab Sample ID: MRL 570-770259/5

Matrix: Water

Analysis Batch: 770259

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	12.4		ug/L		124	50 - 150
Surrogate	MRL %Recovery	MRL Qualifier	Limits				
4-Bromofluorobenzene (Surr)	106		38 - 134				

Lab Sample ID: 380-223448-C-1 MS

Matrix: Water

Analysis Batch: 770259

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	376		ug/L		94	68 - 122
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	103		38 - 134						

Eurofins Pomona

QC Sample Results

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

Job ID: 380-223446-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: 380-223448-C-1 MSD

Matrix: Water

Analysis Batch: 770259

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	6	18
Surrogate	%Recovery	MSD Qualifier	MSD Limits								
4-Bromofluorobenzene (Surr)	99		38 - 134								

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

Lab Sample ID: MB 570-767699/1-A

Matrix: Water

Analysis Batch: 767924

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 767699

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<25		25	ug/L		07/12/26 08:59	07/13/26 15:59	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		07/12/26 08:59	07/13/26 15:59	1
C8-C18	<25		25	ug/L		07/12/26 08:59	07/13/26 15:59	1
Surrogate	%Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac		
n-Octacosane (Surr)	92		60 - 130	07/12/26 08:59	07/13/26 15:59	1		

Lab Sample ID: LCS 570-767699/2-A

Matrix: Water

Analysis Batch: 767924

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 767699

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	RPD
C10-C28	1600	1670		ug/L		104	56 - 127	
Surrogate	%Recovery	LCS Qualifier	LCS Limits					
n-Octacosane (Surr)	110		60 - 130					

Lab Sample ID: LCSD 570-767699/3-A

Matrix: Water

Analysis Batch: 767924

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 767699

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28	1600	1520		ug/L		95	56 - 127	9	23
Surrogate	%Recovery	LCSD Qualifier	LCSD Limits						
n-Octacosane (Surr)	93		60 - 130						

Lab Sample ID: MRL 570-767699/4-A

Matrix: Water

Analysis Batch: 769468

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 767699

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits	RPD
C10-C28	0.0200	0.0313	^3+	mg/L		157	50 - 150	

Eurofins Pomona

QC Sample Results

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

Job ID: 380-223446-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: MRL 570-767699/4-A
Matrix: Water
Analysis Batch: 769468

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 767699

	MRL	MRL	
Surrogate	%Recovery	Qualifier	Limits
n-Octacosane (Surr)	94		60 - 130

Lab Sample ID: 380-223448-B-1-A MS
Matrix: Water
Analysis Batch: 767924

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 767699

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
C10-C28	<25	^3+	1630	1780		ug/L		109	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
n-Octacosane (Surr)	109		60 - 130						

Lab Sample ID: 380-223448-B-1-B MSD
Matrix: Water
Analysis Batch: 767924

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 767699

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28	<25	^3+	1640	1560		ug/L		95	70 - 130	13	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
n-Octacosane (Surr)	97		60 - 130								

QC Association Summary

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

Job ID: 380-223446-1
SDG: Weekly: Aiea Gulch Wells Pump 1

GC/MS Semi VOA

Prep Batch: 239255

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-223446-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	525.2	
MB 380-239255/21-A	Method Blank	Total/NA	Water	525.2	
LCS 380-239255/23-A	Lab Control Sample	Total/NA	Water	525.2	
MRL 380-239255/22-A	Lab Control Sample	Total/NA	Water	525.2	
380-223744-AH-1-A MS	Matrix Spike	Total/NA	Water	525.2	
380-223748-AH-1-A DU	Duplicate	Total/NA	Water	525.2	

Analysis Batch: 239523

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-223446-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	525.2	239255
MB 380-239255/21-A	Method Blank	Total/NA	Water	525.2	239255
LCS 380-239255/23-A	Lab Control Sample	Total/NA	Water	525.2	239255
MRL 380-239255/22-A	Lab Control Sample	Total/NA	Water	525.2	239255
380-223744-AH-1-A MS	Matrix Spike	Total/NA	Water	525.2	239255
380-223748-AH-1-A DU	Duplicate	Total/NA	Water	525.2	239255

Prep Batch: 767443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-223446-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	625.1	
MB 570-767443/1-A	Method Blank	Total/NA	Water	625.1	
LCS 570-767443/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 570-767443/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	
380-223448-A-1-A MS	Matrix Spike	Total/NA	Water	625.1	
380-223448-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	625.1	

Analysis Batch: 768335

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-223446-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	625.1 SIM	767443
MB 570-767443/1-A	Method Blank	Total/NA	Water	625.1 SIM	767443
LCS 570-767443/2-A	Lab Control Sample	Total/NA	Water	625.1 SIM	767443
LCSD 570-767443/3-A	Lab Control Sample Dup	Total/NA	Water	625.1 SIM	767443
380-223448-A-1-A MS	Matrix Spike	Total/NA	Water	625.1 SIM	767443
380-223448-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	625.1 SIM	767443

Analysis Batch: 769166

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-223446-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	625.1	767443
MB 570-767443/1-A	Method Blank	Total/NA	Water	625.1	767443

GC VOA

Analysis Batch: 767974

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-223446-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	8015B GRO LL	
MB 570-767974/6	Method Blank	Total/NA	Water	8015B GRO LL	
LCS 570-767974/3	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-767974/4	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	
MRL 570-767974/5	Lab Control Sample	Total/NA	Water	8015B GRO LL	
380-222429-C-1 MS	Matrix Spike	Total/NA	Water	8015B GRO LL	
380-222429-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8015B GRO LL	

Eurofins Pomona

QC Association Summary

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

Job ID: 380-223446-1
SDG: Weekly: Aiea Gulch Wells Pump 1

GC VOA

Analysis Batch: 770259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-223446-2	TB: AIEA GULCH WELLS P1 (331-201-TP071)	Total/NA	Water	8015B GRO LL	
MB 570-770259/6	Method Blank	Total/NA	Water	8015B GRO LL	
LCS 570-770259/3	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-770259/4	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	
MRL 570-770259/5	Lab Control Sample	Total/NA	Water	8015B GRO LL	
380-223448-C-1 MS	Matrix Spike	Total/NA	Water	8015B GRO LL	
380-223448-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8015B GRO LL	

GC Semi VOA

Prep Batch: 767699

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-223446-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	3510C	
MB 570-767699/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-767699/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-767699/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-767699/4-A	Lab Control Sample	Total/NA	Water	3510C	
380-223448-B-1-A MS	Matrix Spike	Total/NA	Water	3510C	
380-223448-B-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

Analysis Batch: 767924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-767699/1-A	Method Blank	Total/NA	Water	8015B	767699
LCS 570-767699/2-A	Lab Control Sample	Total/NA	Water	8015B	767699
LCSD 570-767699/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	767699
380-223448-B-1-A MS	Matrix Spike	Total/NA	Water	8015B	767699
380-223448-B-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	8015B	767699

Analysis Batch: 769468

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-223446-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	8015B	767699
MRL 570-767699/4-A	Lab Control Sample	Total/NA	Water	8015B	767699

Lab Chronicle

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

Job ID: 380-223446-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: 380-223446-1

Date Collected: 07/06/26 11:00

Matrix: Drinking Water

Date Received: 07/08/26 09:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			239255	IQ42	EA POM	07/13/26 13:50
Total/NA	Analysis	525.2		1	239523	Q8LA	EA POM	07/14/26 16:11
Total/NA	Prep	625.1			767443	KLZQ	EET CAL 4	07/11/26 13:37
Total/NA	Analysis	625.1		1	769166	PQS1	EET CAL 4	07/15/26 12:46
Total/NA	Prep	625.1			767443	KLZQ	EET CAL 4	07/11/26 13:37
Total/NA	Analysis	625.1 SIM		1	768335	S4EA	EET CAL 4	07/14/26 03:08
Total/NA	Analysis	8015B GRO LL		1	767974	7CF2	EET CAL 4	07/13/26 22:00
Total/NA	Prep	3510C			767699	TVD6	EET CAL 4	07/12/26 08:59
Total/NA	Analysis	8015B		1	769468	NR	EET CAL 4	07/16/26 04:44

**Client Sample ID: TB: AIEA GULCH WELLS P1
(331-201-TP071)**

Lab Sample ID: 380-223446-2

Date Collected: 07/06/26 11:00

Matrix: Water

Date Received: 07/08/26 09:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	770259	7CF2	EET CAL 4	07/17/26 13:48

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 380-223446-1
SDG: Weekly: Aiea Gulch Wells Pump 1

Laboratory: Eurofins Pomona

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

Authority	Program	Identification Number	Expiration Date
Hawaii	State	CA00006	01-31-26 *
The following analytes are included in this report, but the laboratory is not certified by Hawaii State CA00006. 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	Terbuthylazine
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	03-02-27
Arizona	State	AZ0830	11-17-26
California	Los Angeles County Sanitation Districts	9257304	07-31-26
California	SCAQMD LAP	17LA0919	11-30-26

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Pomona

Accreditation/Certification Summary

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

Job ID: 380-223446-1
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	State	3082	07-31-28
Kansas	NELAP	E-10420	07-31-26
Nevada	State	CA00111	07-31-26
Oregon	NELAP	4175	02-02-27
Texas	NELAP	T104704499	07-31-27
USDA	US Federal Programs	525-23-159-97150	09-30-26
Utah	NELAP	CA00111	02-28-27
Washington	State	C916	10-12-26

Method Summary

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

Job ID: 380-223446-1
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 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: 380-223446-1
SDG: Weekly: Aiea Gulch Wells Pump 1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	PWSID Number
380-223446-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Drinking Water	07/06/26 11:00	07/08/26 09:28	HI0000331
380-223446-2	TB: AIEA GULCH WELLS P1 (331-201-TP071)	Water	07/06/26 11:00	07/08/26 09:28	

Ver- 04/02/2024

[illegible]

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-223446-1

SDG Number: Weekly: Aiea Gulch Wells Pump 1

Login Number: 223446

List Number: 1

Creator: Ngo, Theodore

List Source: Eurofins Pomona

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

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-223446-1

SDG Number: Weekly: Aiea Gulch Wells Pump 1

Login Number: 223446

List Number: 2

Creator: Khana, Piyush

List Source: Eurofins Calscience

List Creation: 07/09/26 05:13 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.8
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	fgf5
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	