

ANALYTICAL REPORT

PREPARED FOR

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JOB DESCRIPTION

RED-HILL
Weekly: Aiea Gulch Wells Pump 1/Pump 2
RUSH Weekly Red Hill

JOB NUMBER

380-162205-1

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: 380-162205-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

Qualifiers

GC/MS Semi VOA

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

GC/MS Semi VOA TICs

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

GC VOA

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

GC Semi VOA

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

Glossary

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

Case Narrative

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

Job ID: 380-162205-1

Job ID: 380-162205-1

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Job Narrative 380-162205-1

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 7/23/2025 9:30 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 3.0°C.

GC/MS Semi VOA

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

Gasoline Range Organics

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

Diesel Range Organics

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

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Detection Summary

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

Job ID: 380-162205-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

Lab Sample ID: 380-162205-1

☐ No Detections.

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

Lab Sample ID: 380-162205-2

☐ No Detections.

Client Sample ID: AIEA GULCH WELLS PUMP 2
(331-202-TP072)
PWSID Number: HI0000331

Lab Sample ID: 380-162205-3

☐ No Detections.

Client Sample ID: TB: AIEA GULCH WELLS PUMP 2
(331-202-TP072)

Lab Sample ID: 380-162205-4

☐ No Detections.

This Detection Summary does not include radiochemical test results.

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Client Sample Results

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

Job ID: 380-162205-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

Lab Sample ID: 380-162205-1

Date Collected: 07/21/25 10:28

Matrix: Drinking Water

Date Received: 07/23/25 09:30

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.10		0.10	ug/L		07/25/25 12:56	07/27/25 16:10	1
2,4'-DDD	<0.10		0.10	ug/L		07/25/25 12:56	07/27/25 16:10	1
2,4'-DDE	<0.10		0.10	ug/L		07/25/25 12:56	07/27/25 16:10	1
2,4'-DDT	<0.10		0.10	ug/L		07/25/25 12:56	07/27/25 16:10	1
2,4-Dinitrotoluene	<0.10		0.10	ug/L		07/25/25 12:56	07/27/25 16:10	1
2,6-Dinitrotoluene	<0.10		0.10	ug/L		07/25/25 12:56	07/27/25 16:10	1
2-Methylnaphthalene	<0.10		0.10	ug/L		07/25/25 12:56	07/27/25 16:10	1
4,4'-DDD	<0.10		0.10	ug/L		07/25/25 12:56	07/27/25 16:10	1
4,4'-DDE	<0.10		0.10	ug/L		07/25/25 12:56	07/27/25 16:10	1
4,4'-DDT	<0.10		0.10	ug/L		07/25/25 12:56	07/27/25 16:10	1
Acenaphthene	<0.10		0.10	ug/L		07/25/25 12:56	07/27/25 16:10	1
Acenaphthylene	<0.10		0.10	ug/L		07/25/25 12:56	07/27/25 16:10	1
Acetochlor	<0.10		0.10	ug/L		07/25/25 12:56	07/27/25 16:10	1
Alachlor	<0.050		0.050	ug/L		07/25/25 12:56	07/27/25 16:10	1
alpha-BHC	<0.10		0.10	ug/L		07/25/25 12:56	07/27/25 16:10	1
alpha-Chlordane	<0.050		0.050	ug/L		07/25/25 12:56	07/27/25 16:10	1
Anthracene	<0.020		0.020	ug/L		07/25/25 12:56	07/27/25 16:10	1
Atrazine	<0.050		0.050	ug/L		07/25/25 12:56	07/27/25 16:10	1
Benz(a)anthracene	<0.050		0.050	ug/L		07/25/25 12:56	07/27/25 16:10	1
Benzo[a]pyrene	<0.020		0.020	ug/L		07/25/25 12:56	07/27/25 16:10	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		07/25/25 12:56	07/27/25 16:10	1
Benzo[g,h,i]perylene	<0.050		0.050	ug/L		07/25/25 12:56	07/27/25 16:10	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		07/25/25 12:56	07/27/25 16:10	1
beta-BHC	<0.10		0.10	ug/L		07/25/25 12:56	07/27/25 16:10	1
Bis(2-ethylhexyl) phthalate	<0.60		0.60	ug/L		07/25/25 12:56	07/27/25 16:10	1
Bromacil	<0.10		0.10	ug/L		07/25/25 12:56	07/27/25 16:10	1
Butachlor	<0.050		0.050	ug/L		07/25/25 12:56	07/27/25 16:10	1
Butylbenzylphthalate	<0.50		0.50	ug/L		07/25/25 12:56	07/27/25 16:10	1
Chlorobenzilate	<0.10		0.10	ug/L		07/25/25 12:56	07/27/25 16:10	1
Chloroneb	<0.10		0.10	ug/L		07/25/25 12:56	07/27/25 16:10	1
Chlorothalonil (Draconil, Bravo)	<0.10		0.10	ug/L		07/25/25 12:56	07/27/25 16:10	1
Chlorpyrifos	<0.050		0.050	ug/L		07/25/25 12:56	07/27/25 16:10	1
Chrysene	<0.020		0.020	ug/L		07/25/25 12:56	07/27/25 16:10	1
delta-BHC	<0.10		0.10	ug/L		07/25/25 12:56	07/27/25 16:10	1
Di(2-ethylhexyl)adipate	<0.60		0.60	ug/L		07/25/25 12:56	07/27/25 16:10	1
Dibenz(a,h)anthracene	<0.050		0.050	ug/L		07/25/25 12:56	07/27/25 16:10	1
Diclorvos (DDVP)	<0.050		0.050	ug/L		07/25/25 12:56	07/27/25 16:10	1
Dieldrin	<0.010		0.010	ug/L		07/25/25 12:56	07/27/25 16:10	1
Diethylphthalate	<0.50		0.50	ug/L		07/25/25 12:56	07/27/25 16:10	1
Dimethylphthalate	<0.50		0.50	ug/L		07/25/25 12:56	07/27/25 16:10	1
Di-n-butyl phthalate	<1.0		1.0	ug/L		07/25/25 12:56	07/27/25 16:10	1
Di-n-octyl phthalate	<0.10		0.10	ug/L		07/25/25 12:56	07/27/25 16:10	1
Endosulfan I (Alpha)	<0.10		0.10	ug/L		07/25/25 12:56	07/27/25 16:10	1
Endosulfan II (Beta)	<0.10		0.10	ug/L		07/25/25 12:56	07/27/25 16:10	1
Endosulfan sulfate	<0.10		0.10	ug/L		07/25/25 12:56	07/27/25 16:10	1
Endrin	<0.010		0.010	ug/L		07/25/25 12:56	07/27/25 16:10	1
Endrin aldehyde	<0.10		0.10	ug/L		07/25/25 12:56	07/27/25 16:10	1
EPTC	<0.10		0.10	ug/L		07/25/25 12:56	07/27/25 16:10	1

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Client Sample Results

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

Job ID: 380-162205-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

Lab Sample ID: 380-162205-1

Date Collected: 07/21/25 10:28

Matrix: Drinking Water

Date Received: 07/23/25 09:30

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.10		0.10	ug/L		07/25/25 12:56	07/27/25 16:10	1
Fluorene	<0.050		0.050	ug/L		07/25/25 12:56	07/27/25 16:10	1
gamma-Chlordane	<0.050		0.050	ug/L		07/25/25 12:56	07/27/25 16:10	1
Heptachlor	<0.010		0.010	ug/L		07/25/25 12:56	07/27/25 16:10	1
Heptachlor epoxide (isomer B)	<0.010		0.010	ug/L		07/25/25 12:56	07/27/25 16:10	1
Hexachlorobenzene	<0.050		0.050	ug/L		07/25/25 12:56	07/27/25 16:10	1
Hexachlorocyclopentadiene	<0.050		0.050	ug/L		07/25/25 12:56	07/27/25 16:10	1
Indeno[1,2,3-cd]pyrene	<0.050		0.050	ug/L		07/25/25 12:56	07/27/25 16:10	1
Isophorone	<0.10		0.10	ug/L		07/25/25 12:56	07/27/25 16:10	1
Lindane	<0.010		0.010	ug/L		07/25/25 12:56	07/27/25 16:10	1
Malathion	<0.10		0.10	ug/L		07/25/25 12:56	07/27/25 16:10	1
Methoxychlor	<0.050		0.050	ug/L		07/25/25 12:56	07/27/25 16:10	1
Metolachlor	<0.050		0.050	ug/L		07/25/25 12:56	07/27/25 16:10	1
Molinate	<0.10		0.10	ug/L		07/25/25 12:56	07/27/25 16:10	1
Naphthalene	<0.10		0.10	ug/L		07/25/25 12:56	07/27/25 16:10	1
Parathion	<0.10		0.10	ug/L		07/25/25 12:56	07/27/25 16:10	1
Pendimethalin (Penoxaline)	<0.10		0.10	ug/L		07/25/25 12:56	07/27/25 16:10	1
Phenanthrene	<0.040		0.040	ug/L		07/25/25 12:56	07/27/25 16:10	1
Propachlor	<0.050		0.050	ug/L		07/25/25 12:56	07/27/25 16:10	1
Pyrene	<0.050		0.050	ug/L		07/25/25 12:56	07/27/25 16:10	1
Simazine	<0.050		0.050	ug/L		07/25/25 12:56	07/27/25 16:10	1
Terbacil	<0.10		0.10	ug/L		07/25/25 12:56	07/27/25 16:10	1
Terbutylazine	<0.10		0.10	ug/L		07/25/25 12:56	07/27/25 16:10	1
Thiobencarb	<0.10		0.10	ug/L		07/25/25 12:56	07/27/25 16:10	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		07/25/25 12:56	07/27/25 16:10	1
trans-Nonachlor	<0.050		0.050	ug/L		07/25/25 12:56	07/27/25 16:10	1
Trifluralin	<0.10		0.10	ug/L		07/25/25 12:56	07/27/25 16:10	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	07/25/25 12:56	07/27/25 16:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	94		70 - 130	07/25/25 12:56	07/27/25 16:10	1
Perylene-d12	99		70 - 130	07/25/25 12:56	07/27/25 16:10	1
Triphenylphosphate	117		70 - 130	07/25/25 12:56	07/27/25 16:10	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.20		0.20	ug/L		07/25/25 05:11	07/30/25 06:26	1
2-Methylnaphthalene	<0.20		0.20	ug/L		07/25/25 05:11	07/30/25 06:26	1
Acenaphthene	<0.20		0.20	ug/L		07/25/25 05:11	07/30/25 06:26	1
Acenaphthylene	<0.20		0.20	ug/L		07/25/25 05:11	07/30/25 06:26	1
Anthracene	<0.20		0.20	ug/L		07/25/25 05:11	07/30/25 06:26	1
Benzo[a]anthracene	<0.20		0.20	ug/L		07/25/25 05:11	07/30/25 06:26	1
Benzo[a]pyrene	<0.20		0.20	ug/L		07/25/25 05:11	07/30/25 06:26	1
Benzo[b]fluoranthene	<0.20		0.20	ug/L		07/25/25 05:11	07/30/25 06:26	1
Benzo[g,h,i]perylene	<0.20		0.20	ug/L		07/25/25 05:11	07/30/25 06:26	1
Benzo[k]fluoranthene	<0.20		0.20	ug/L		07/25/25 05:11	07/30/25 06:26	1
Chrysene	<0.20		0.20	ug/L		07/25/25 05:11	07/30/25 06:26	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-162205-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

Lab Sample ID: 380-162205-1

Date Collected: 07/21/25 10:28

Matrix: Drinking Water

Date Received: 07/23/25 09:30

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	<0.20		0.20	ug/L		07/25/25 05:11	07/30/25 06:26	1
Fluoranthene	<0.20		0.20	ug/L		07/25/25 05:11	07/30/25 06:26	1
Fluorene	<0.20		0.20	ug/L		07/25/25 05:11	07/30/25 06:26	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20	ug/L		07/25/25 05:11	07/30/25 06:26	1
Naphthalene	<0.20		0.20	ug/L		07/25/25 05:11	07/30/25 06:26	1
Phenanthrene	<0.20		0.20	ug/L		07/25/25 05:11	07/30/25 06:26	1
Pyrene	<0.20		0.20	ug/L		07/25/25 05:11	07/30/25 06:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	80		28 - 127	07/25/25 05:11	07/30/25 06:26	1
2-Fluorobiphenyl (Surr)	77		31 - 120	07/25/25 05:11	07/30/25 06:26	1
2-Fluorophenol (Surr)	39		17 - 120	07/25/25 05:11	07/30/25 06:26	1
Nitrobenzene-d5 (Surr)	77		27 - 120	07/25/25 05:11	07/30/25 06:26	1
Phenol-d6 (Surr)	23		10 - 120	07/25/25 05:11	07/30/25 06:26	1
p-Terphenyl-d14 (Surr)	80		45 - 120	07/25/25 05:11	07/30/25 06:26	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
Unknown	6.9	T J	ug/L		2.09	N/A	07/25/25 05:11	08/04/25 17:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	109		33 - 139	07/25/25 05:11	08/04/25 17:05	1
2-Fluorobiphenyl (Surr)	94		33 - 126	07/25/25 05:11	08/04/25 17:05	1
2-Fluorophenol (Surr)	55		12 - 120	07/25/25 05:11	08/04/25 17:05	1
Nitrobenzene-d5 (Surr)	95		36 - 120	07/25/25 05:11	08/04/25 17:05	1
Phenol-d6 (Surr)	33		10 - 120	07/25/25 05:11	08/04/25 17:05	1
p-Terphenyl-d14 (Surr)	96		47 - 131	07/25/25 05:11	08/04/25 17:05	1

Method: SW846 8015B GRO LL - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	<10		10	ug/L			08/02/25 16:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		38 - 134		08/02/25 16:39	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		07/28/25 09:17	08/05/25 04:47	1
Motor Oil Range Organics [C24-C36]	<26		26	ug/L		07/28/25 09:17	08/05/25 04:47	1
C8-C18	<26		26	ug/L		07/28/25 09:17	08/05/25 04:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	107		60 - 130	07/28/25 09:17	08/05/25 04:47	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-162205-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

Lab Sample ID: 380-162205-2

Date Collected: 07/21/25 10:28

Matrix: Drinking Water

Date Received: 07/23/25 09:30

Method: SW846 8015B GRO LL - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	<10		10	ug/L			08/02/25 23:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	74		38 - 134				08/02/25 23:18	1

**Client Sample ID: AIEA GULCH WELLS PUMP 2
(331-202-TP072)**

Lab Sample ID: 380-162205-3

Date Collected: 07/21/25 10:47

Matrix: Drinking Water

Date Received: 07/23/25 09:30

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		07/25/25 12:56	07/27/25 16:31	1
2,4'-DDD	<0.099		0.099	ug/L		07/25/25 12:56	07/27/25 16:31	1
2,4'-DDE	<0.099		0.099	ug/L		07/25/25 12:56	07/27/25 16:31	1
2,4'-DDT	<0.099		0.099	ug/L		07/25/25 12:56	07/27/25 16:31	1
2,4-Dinitrotoluene	<0.099		0.099	ug/L		07/25/25 12:56	07/27/25 16:31	1
2,6-Dinitrotoluene	<0.099		0.099	ug/L		07/25/25 12:56	07/27/25 16:31	1
2-Methylnaphthalene	<0.099		0.099	ug/L		07/25/25 12:56	07/27/25 16:31	1
4,4'-DDD	<0.099		0.099	ug/L		07/25/25 12:56	07/27/25 16:31	1
4,4'-DDE	<0.099		0.099	ug/L		07/25/25 12:56	07/27/25 16:31	1
4,4'-DDT	<0.099		0.099	ug/L		07/25/25 12:56	07/27/25 16:31	1
Acenaphthene	<0.099		0.099	ug/L		07/25/25 12:56	07/27/25 16:31	1
Acenaphthylene	<0.099		0.099	ug/L		07/25/25 12:56	07/27/25 16:31	1
Acetochlor	<0.099		0.099	ug/L		07/25/25 12:56	07/27/25 16:31	1
Alachlor	<0.049		0.049	ug/L		07/25/25 12:56	07/27/25 16:31	1
alpha-BHC	<0.099		0.099	ug/L		07/25/25 12:56	07/27/25 16:31	1
alpha-Chlordane	<0.049		0.049	ug/L		07/25/25 12:56	07/27/25 16:31	1
Anthracene	<0.020		0.020	ug/L		07/25/25 12:56	07/27/25 16:31	1
Atrazine	<0.049		0.049	ug/L		07/25/25 12:56	07/27/25 16:31	1
Benz(a)anthracene	<0.049		0.049	ug/L		07/25/25 12:56	07/27/25 16:31	1
Benzo[a]pyrene	<0.020		0.020	ug/L		07/25/25 12:56	07/27/25 16:31	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		07/25/25 12:56	07/27/25 16:31	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		07/25/25 12:56	07/27/25 16:31	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		07/25/25 12:56	07/27/25 16:31	1
beta-BHC	<0.099		0.099	ug/L		07/25/25 12:56	07/27/25 16:31	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		07/25/25 12:56	07/27/25 16:31	1
Bromacil	<0.099		0.099	ug/L		07/25/25 12:56	07/27/25 16:31	1
Butachlor	<0.049		0.049	ug/L		07/25/25 12:56	07/27/25 16:31	1
Butylbenzylphthalate	<0.49		0.49	ug/L		07/25/25 12:56	07/27/25 16:31	1
Chlorobenzilate	<0.099		0.099	ug/L		07/25/25 12:56	07/27/25 16:31	1
Chloroneb	<0.099		0.099	ug/L		07/25/25 12:56	07/27/25 16:31	1
Chlorothalonil (Draconil, Bravo)	<0.099		0.099	ug/L		07/25/25 12:56	07/27/25 16:31	1
Chlorpyrifos	<0.049		0.049	ug/L		07/25/25 12:56	07/27/25 16:31	1
Chrysene	<0.020		0.020	ug/L		07/25/25 12:56	07/27/25 16:31	1
delta-BHC	<0.099		0.099	ug/L		07/25/25 12:56	07/27/25 16:31	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		07/25/25 12:56	07/27/25 16:31	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		07/25/25 12:56	07/27/25 16:31	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		07/25/25 12:56	07/27/25 16:31	1

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Client Sample Results

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

Job ID: 380-162205-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

**Client Sample ID: AIEA GULCH WELLS PUMP 2
(331-202-TP072)**

Lab Sample ID: 380-162205-3

Date Collected: 07/21/25 10:47
Date Received: 07/23/25 09:30

Matrix: Drinking Water
PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dieldrin	<0.0099		0.0099	ug/L		07/25/25 12:56	07/27/25 16:31	1
Diethylphthalate	<0.49		0.49	ug/L		07/25/25 12:56	07/27/25 16:31	1
Dimethylphthalate	<0.49		0.49	ug/L		07/25/25 12:56	07/27/25 16:31	1
Di-n-butyl phthalate	<0.99		0.99	ug/L		07/25/25 12:56	07/27/25 16:31	1
Di-n-octyl phthalate	<0.099		0.099	ug/L		07/25/25 12:56	07/27/25 16:31	1
Endosulfan I (Alpha)	<0.099		0.099	ug/L		07/25/25 12:56	07/27/25 16:31	1
Endosulfan II (Beta)	<0.099		0.099	ug/L		07/25/25 12:56	07/27/25 16:31	1
Endosulfan sulfate	<0.099		0.099	ug/L		07/25/25 12:56	07/27/25 16:31	1
Endrin	<0.0099		0.0099	ug/L		07/25/25 12:56	07/27/25 16:31	1
Endrin aldehyde	<0.099		0.099	ug/L		07/25/25 12:56	07/27/25 16:31	1
EPTC	<0.099		0.099	ug/L		07/25/25 12:56	07/27/25 16:31	1
Fluoranthene	<0.099		0.099	ug/L		07/25/25 12:56	07/27/25 16:31	1
Fluorene	<0.049		0.049	ug/L		07/25/25 12:56	07/27/25 16:31	1
gamma-Chlordane	<0.049		0.049	ug/L		07/25/25 12:56	07/27/25 16:31	1
Heptachlor	<0.0099		0.0099	ug/L		07/25/25 12:56	07/27/25 16:31	1
Heptachlor epoxide (isomer B)	<0.0099		0.0099	ug/L		07/25/25 12:56	07/27/25 16:31	1
Hexachlorobenzene	<0.049		0.049	ug/L		07/25/25 12:56	07/27/25 16:31	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		07/25/25 12:56	07/27/25 16:31	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		07/25/25 12:56	07/27/25 16:31	1
Isophorone	<0.099		0.099	ug/L		07/25/25 12:56	07/27/25 16:31	1
Lindane	<0.0099		0.0099	ug/L		07/25/25 12:56	07/27/25 16:31	1
Malathion	<0.099		0.099	ug/L		07/25/25 12:56	07/27/25 16:31	1
Methoxychlor	<0.049		0.049	ug/L		07/25/25 12:56	07/27/25 16:31	1
Metolachlor	<0.049		0.049	ug/L		07/25/25 12:56	07/27/25 16:31	1
Molinate	<0.099		0.099	ug/L		07/25/25 12:56	07/27/25 16:31	1
Naphthalene	<0.099		0.099	ug/L		07/25/25 12:56	07/27/25 16:31	1
Parathion	<0.099		0.099	ug/L		07/25/25 12:56	07/27/25 16:31	1
Pendimethalin (Penoxaline)	<0.099		0.099	ug/L		07/25/25 12:56	07/27/25 16:31	1
Phenanthrene	<0.039		0.039	ug/L		07/25/25 12:56	07/27/25 16:31	1
Propachlor	<0.049		0.049	ug/L		07/25/25 12:56	07/27/25 16:31	1
Pyrene	<0.049		0.049	ug/L		07/25/25 12:56	07/27/25 16:31	1
Simazine	<0.049		0.049	ug/L		07/25/25 12:56	07/27/25 16:31	1
Terbacil	<0.099		0.099	ug/L		07/25/25 12:56	07/27/25 16:31	1
Terbutylazine	<0.099		0.099	ug/L		07/25/25 12:56	07/27/25 16:31	1
Thiobencarb	<0.099		0.099	ug/L		07/25/25 12:56	07/27/25 16:31	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		07/25/25 12:56	07/27/25 16:31	1
trans-Nonachlor	<0.049		0.049	ug/L		07/25/25 12:56	07/27/25 16:31	1
Trifluralin	<0.099		0.099	ug/L		07/25/25 12:56	07/27/25 16:31	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	07/25/25 12:56	07/27/25 16:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	95		70 - 130	07/25/25 12:56	07/27/25 16:31	1
Perylene-d12	96		70 - 130	07/25/25 12:56	07/27/25 16:31	1
Triphenylphosphate	116		70 - 130	07/25/25 12:56	07/27/25 16:31	1

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Client Sample Results

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

Job ID: 380-162205-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

**Client Sample ID: AIEA GULCH WELLS PUMP 2
(331-202-TP072)**

Lab Sample ID: 380-162205-3

Date Collected: 07/21/25 10:47

Matrix: Drinking Water

Date Received: 07/23/25 09:30

PWSID Number: HI0000331

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		07/25/25 05:11	07/30/25 06:48	1
2-Methylnaphthalene	<0.19		0.19	ug/L		07/25/25 05:11	07/30/25 06:48	1
Acenaphthene	<0.19		0.19	ug/L		07/25/25 05:11	07/30/25 06:48	1
Acenaphthylene	<0.19		0.19	ug/L		07/25/25 05:11	07/30/25 06:48	1
Anthracene	<0.19		0.19	ug/L		07/25/25 05:11	07/30/25 06:48	1
Benzo[a]anthracene	<0.19		0.19	ug/L		07/25/25 05:11	07/30/25 06:48	1
Benzo[a]pyrene	<0.19		0.19	ug/L		07/25/25 05:11	07/30/25 06:48	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		07/25/25 05:11	07/30/25 06:48	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		07/25/25 05:11	07/30/25 06:48	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		07/25/25 05:11	07/30/25 06:48	1
Chrysene	<0.19		0.19	ug/L		07/25/25 05:11	07/30/25 06:48	1
Dibenz(a,h)anthracene	<0.19		0.19	ug/L		07/25/25 05:11	07/30/25 06:48	1
Fluoranthene	<0.19		0.19	ug/L		07/25/25 05:11	07/30/25 06:48	1
Fluorene	<0.19		0.19	ug/L		07/25/25 05:11	07/30/25 06:48	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		07/25/25 05:11	07/30/25 06:48	1
Naphthalene	<0.19		0.19	ug/L		07/25/25 05:11	07/30/25 06:48	1
Phenanthrene	<0.19		0.19	ug/L		07/25/25 05:11	07/30/25 06:48	1
Pyrene	<0.19		0.19	ug/L		07/25/25 05:11	07/30/25 06:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	84		28 - 127	07/25/25 05:11	07/30/25 06:48	1
2-Fluorobiphenyl (Surr)	81		31 - 120	07/25/25 05:11	07/30/25 06:48	1
2-Fluorophenol (Surr)	41		17 - 120	07/25/25 05:11	07/30/25 06:48	1
Nitrobenzene-d5 (Surr)	82		27 - 120	07/25/25 05:11	07/30/25 06:48	1
Phenol-d6 (Surr)	24		10 - 120	07/25/25 05:11	07/30/25 06:48	1
p-Terphenyl-d14 (Surr)	81		45 - 120	07/25/25 05:11	07/30/25 06:48	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
Unknown	5.7	T J	ug/L		2.09	N/A	07/25/25 05:11	08/04/25 17:29	1
Unknown	7.4	T J	ug/L		2.93	N/A	07/25/25 05:11	08/04/25 17:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	106		33 - 139	07/25/25 05:11	08/04/25 17:29	1
2-Fluorobiphenyl (Surr)	96		33 - 126	07/25/25 05:11	08/04/25 17:29	1
2-Fluorophenol (Surr)	56		12 - 120	07/25/25 05:11	08/04/25 17:29	1
Nitrobenzene-d5 (Surr)	110		36 - 120	07/25/25 05:11	08/04/25 17:29	1
Phenol-d6 (Surr)	29		10 - 120	07/25/25 05:11	08/04/25 17:29	1
p-Terphenyl-d14 (Surr)	91		47 - 131	07/25/25 05:11	08/04/25 17:29	1

Method: SW846 8015B GRO LL - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	<10		10	ug/L			08/02/25 16:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		38 - 134		08/02/25 16:17	1

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Client Sample Results

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

Job ID: 380-162205-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

**Client Sample ID: AIEA GULCH WELLS PUMP 2
(331-202-TP072)**

Lab Sample ID: 380-162205-3

Date Collected: 07/21/25 10:47

Matrix: Drinking Water

Date Received: 07/23/25 09:30

PWSID Number: HI0000331

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		07/28/25 09:17	08/05/25 05:09	1
Motor Oil Range Organics [C24-C36]	<26		26	ug/L		07/28/25 09:17	08/05/25 05:09	1
C8-C18	<26		26	ug/L		07/28/25 09:17	08/05/25 05:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	105		60 - 130			07/28/25 09:17	08/05/25 05:09	1

**Client Sample ID: TB: AIEA GULCH WELLS PUMP 2
(331-202-TP072)**

Lab Sample ID: 380-162205-4

Date Collected: 07/21/25 10:47

Matrix: Water

Date Received: 07/23/25 09:30

Method: SW846 8015B GRO LL - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	<10		10	ug/L			08/02/25 23:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		38 - 134				08/02/25 23:40	1

Action Limit Summary

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

Job ID: 380-162205-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

Lab Sample ID: 380-162205-1

Compliance Check

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

Analyte	Result	Qualifier	Unit	EPAMCL Limit	RL	Method	Prep Type
Alachlor	<0.050		ug/L	2	0.050	525.2	Total/NA
Atrazine	<0.050		ug/L	3	0.050	525.2	Total/NA
Benzo[a]pyrene	<0.020		ug/L	0.2	0.020	525.2	Total/NA
Bis(2-ethylhexyl) phthalate	<0.60		ug/L	6	0.60	525.2	Total/NA
Di(2-ethylhexyl)adipate	<0.60		ug/L	400	0.60	525.2	Total/NA
Endrin	<0.010		ug/L	2	0.010	525.2	Total/NA
Heptachlor	<0.010		ug/L	0.4	0.010	525.2	Total/NA
Heptachlor epoxide (isomer B)	<0.010		ug/L	0.2	0.010	525.2	Total/NA
Hexachlorobenzene	<0.050		ug/L	1	0.050	525.2	Total/NA
Hexachlorocyclopentadiene	<0.050		ug/L	50	0.050	525.2	Total/NA
Lindane	<0.010		ug/L	0.2	0.010	525.2	Total/NA
Methoxychlor	<0.050		ug/L	40	0.050	525.2	Total/NA
Simazine	<0.050		ug/L	4	0.050	525.2	Total/NA
Benzo[a]pyrene	<0.20		ug/L	0.2	0.20	625.1 SIM	Total/NA

Client Sample ID: AIEA GULCH WELLS PUMP 2
(331-202-TP072)
PWSID Number: HI0000331

Lab Sample ID: 380-162205-3

Compliance Check

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

Analyte	Result	Qualifier	Unit	EPAMCL Limit	RL	Method	Prep Type
Alachlor	<0.049		ug/L	2	0.049	525.2	Total/NA
Atrazine	<0.049		ug/L	3	0.049	525.2	Total/NA
Benzo[a]pyrene	<0.020		ug/L	0.2	0.020	525.2	Total/NA
Bis(2-ethylhexyl) phthalate	<0.59		ug/L	6	0.59	525.2	Total/NA
Di(2-ethylhexyl)adipate	<0.59		ug/L	400	0.59	525.2	Total/NA
Endrin	<0.0099		ug/L	2	0.0099	525.2	Total/NA
Heptachlor	<0.0099		ug/L	0.4	0.0099	525.2	Total/NA
Heptachlor epoxide (isomer B)	<0.0099		ug/L	0.2	0.0099	525.2	Total/NA
Hexachlorobenzene	<0.049		ug/L	1	0.049	525.2	Total/NA
Hexachlorocyclopentadiene	<0.049		ug/L	50	0.049	525.2	Total/NA
Lindane	<0.0099		ug/L	0.2	0.0099	525.2	Total/NA
Methoxychlor	<0.049		ug/L	40	0.049	525.2	Total/NA
Simazine	<0.049		ug/L	4	0.049	525.2	Total/NA
Benzo[a]pyrene	<0.19		ug/L	0.2	0.19	625.1 SIM	Total/NA

Surrogate Summary

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

Job ID: 380-162205-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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)				
380-162205-1	AIEA GULCH WELLS PUMP 1 (	94	99	117				
380-162205-3	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	95	96	116				

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)				
380-162176-I-1-A MS	Matrix Spike	92	101	118				
380-162185-I-1-A DU	Duplicate	92	93	115				
LCS 380-165111/23-A	Lab Control Sample	91	99	119				
LCSD 380-165111/24-A	Lab Control Sample Dup	92	100	118				
MB 380-165111/21-A	Method Blank	92	89	113				
MRL 380-165111/22-A	Lab Control Sample	92	93	114				

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)		
380-162205-1	AIEA GULCH WELLS PUMP 1 (	109	94	55	95	33	96		
380-162205-3	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	106	96	56	110	29	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 - 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 570-601667/1-A	Method Blank	83	82	44	94	24	88		

Surrogate Legend

Eurofins Eaton Analytical Pomona

Surrogate Summary

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

Job ID: 380-162205-1

SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

Method: 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)
380-162205-1	AIEA GULCH WELLS PUMP 1 (	80	77	39	77	23	80
380-162205-3	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	84	81	41	82	24	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 SIM - Semivolatile Organic Compounds GC/MS (SIM)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (28-127)	FBP (31-120)	2FP (17-120)	NBZ (27-120)	PHL6 (10-120)	TPHd14 (45-120)
380-162185-A-1-A MS	Matrix Spike	86	88	49	73	29	96
380-162185-A-1-B MSD	Matrix Spike Duplicate	65	66	36	65	22	68
LCS 570-601667/2-A	Lab Control Sample	82	83	45	70	28	91
LCSD 570-601667/3-A	Lab Control Sample Dup	92	92	50	77	31	97
MB 570-601667/1-A	Method Blank	86	80	41	83	25	87

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)					
380-162205-1	AIEA GULCH WELLS PUMP 1 (	80					
380-162205-2	TB: AIEA GULCH WELLS PUMP 1 (331-201-TP071)	74					
380-162205-3	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	82					

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

Surrogate Summary

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

Job ID: 380-162205-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	BFB1 (38-134)
380-162172-B-1 MS	Matrix Spike	99
380-162172-B-1 MSD	Matrix Spike Duplicate	98
380-162205-4	TB: AIEA GULCH WELLS PUMP 2 (331-202-TP072)	80
LCS 570 606111/1008	Lab Control Sample	99
LCSD 570-606111/9	Lab Control Sample Dup	93
MB 570-606111/10	Method Blank	77
MRL 570-606111/11	Lab Control Sample	79
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)
380-162205-1	AIEA GULCH WELLS PUMP 1 (	107
380-162205-3	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	105
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)
380-162172-C-1-A MS	Matrix Spike	111
380-162172-C-1-B MSD	Matrix Spike Duplicate	105
LCS 570-603290/2-A	Lab Control Sample	101
LCSD 570-603290/3-A	Lab Control Sample Dup	103
MB 570-603290/1-A	Method Blank	106
MRL 570-603290/4-A	Lab Control Sample	107
Surrogate Legend		
OTCSN = n-Octacosane (Surr)		

QC Sample Results

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

Job ID: 380-162205-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

Lab Sample ID: MB 380-165111/21-A

Matrix: Water

Analysis Batch: 165233

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 165111

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.098		0.098	ug/L		07/25/25 12:56	07/27/25 12:45	1
2,4'-DDD	<0.098		0.098	ug/L		07/25/25 12:56	07/27/25 12:45	1
2,4'-DDE	<0.098		0.098	ug/L		07/25/25 12:56	07/27/25 12:45	1
2,4'-DDT	<0.098		0.098	ug/L		07/25/25 12:56	07/27/25 12:45	1
2,4-Dinitrotoluene	<0.098		0.098	ug/L		07/25/25 12:56	07/27/25 12:45	1
2,6-Dinitrotoluene	<0.098		0.098	ug/L		07/25/25 12:56	07/27/25 12:45	1
2-Methylnaphthalene	<0.098		0.098	ug/L		07/25/25 12:56	07/27/25 12:45	1
4,4'-DDD	<0.098		0.098	ug/L		07/25/25 12:56	07/27/25 12:45	1
4,4'-DDE	<0.098		0.098	ug/L		07/25/25 12:56	07/27/25 12:45	1
4,4'-DDT	<0.098		0.098	ug/L		07/25/25 12:56	07/27/25 12:45	1
Acenaphthene	<0.098		0.098	ug/L		07/25/25 12:56	07/27/25 12:45	1
Acenaphthylene	<0.098		0.098	ug/L		07/25/25 12:56	07/27/25 12:45	1
Acetochlor	<0.098		0.098	ug/L		07/25/25 12:56	07/27/25 12:45	1
Alachlor	<0.049		0.049	ug/L		07/25/25 12:56	07/27/25 12:45	1
alpha-BHC	<0.098		0.098	ug/L		07/25/25 12:56	07/27/25 12:45	1
alpha-Chlordane	<0.049		0.049	ug/L		07/25/25 12:56	07/27/25 12:45	1
Anthracene	<0.020		0.020	ug/L		07/25/25 12:56	07/27/25 12:45	1
Atrazine	<0.049		0.049	ug/L		07/25/25 12:56	07/27/25 12:45	1
Benz(a)anthracene	<0.049		0.049	ug/L		07/25/25 12:56	07/27/25 12:45	1
Benzo[a]pyrene	<0.020		0.020	ug/L		07/25/25 12:56	07/27/25 12:45	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		07/25/25 12:56	07/27/25 12:45	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		07/25/25 12:56	07/27/25 12:45	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		07/25/25 12:56	07/27/25 12:45	1
beta-BHC	<0.098		0.098	ug/L		07/25/25 12:56	07/27/25 12:45	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		07/25/25 12:56	07/27/25 12:45	1
Bromacil	<0.098		0.098	ug/L		07/25/25 12:56	07/27/25 12:45	1
Butachlor	<0.049		0.049	ug/L		07/25/25 12:56	07/27/25 12:45	1
Butylbenzylphthalate	<0.49		0.49	ug/L		07/25/25 12:56	07/27/25 12:45	1
Chlorobenzilate	<0.098		0.098	ug/L		07/25/25 12:56	07/27/25 12:45	1
Chloroneb	<0.098		0.098	ug/L		07/25/25 12:56	07/27/25 12:45	1
Chlorothalonil (Draconil, Bravo)	<0.098		0.098	ug/L		07/25/25 12:56	07/27/25 12:45	1
Chlorpyrifos	<0.049		0.049	ug/L		07/25/25 12:56	07/27/25 12:45	1
Chrysene	<0.020		0.020	ug/L		07/25/25 12:56	07/27/25 12:45	1
delta-BHC	<0.098		0.098	ug/L		07/25/25 12:56	07/27/25 12:45	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		07/25/25 12:56	07/27/25 12:45	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		07/25/25 12:56	07/27/25 12:45	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		07/25/25 12:56	07/27/25 12:45	1
Dieldrin	<0.0098		0.0098	ug/L		07/25/25 12:56	07/27/25 12:45	1
Diethylphthalate	<0.49		0.49	ug/L		07/25/25 12:56	07/27/25 12:45	1
Dimethylphthalate	<0.49		0.49	ug/L		07/25/25 12:56	07/27/25 12:45	1
Di-n-butyl phthalate	<0.98		0.98	ug/L		07/25/25 12:56	07/27/25 12:45	1
Di-n-octyl phthalate	<0.098		0.098	ug/L		07/25/25 12:56	07/27/25 12:45	1
Endosulfan I (Alpha)	<0.098		0.098	ug/L		07/25/25 12:56	07/27/25 12:45	1
Endosulfan II (Beta)	<0.098		0.098	ug/L		07/25/25 12:56	07/27/25 12:45	1
Endosulfan sulfate	<0.098		0.098	ug/L		07/25/25 12:56	07/27/25 12:45	1
Endrin	<0.0098		0.0098	ug/L		07/25/25 12:56	07/27/25 12:45	1
Endrin aldehyde	<0.098		0.098	ug/L		07/25/25 12:56	07/27/25 12:45	1
EPTC	<0.098		0.098	ug/L		07/25/25 12:56	07/27/25 12:45	1

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QC Sample Results

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

Job ID: 380-162205-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

Lab Sample ID: MB 380-165111/21-A

Matrix: Water

Analysis Batch: 165233

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 165111

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.098		0.098	ug/L		07/25/25 12:56	07/27/25 12:45	1
Fluorene	<0.049		0.049	ug/L		07/25/25 12:56	07/27/25 12:45	1
gamma-Chlordane	<0.049		0.049	ug/L		07/25/25 12:56	07/27/25 12:45	1
Heptachlor	<0.0098		0.0098	ug/L		07/25/25 12:56	07/27/25 12:45	1
Heptachlor epoxide (isomer B)	<0.0098		0.0098	ug/L		07/25/25 12:56	07/27/25 12:45	1
Hexachlorobenzene	<0.049		0.049	ug/L		07/25/25 12:56	07/27/25 12:45	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		07/25/25 12:56	07/27/25 12:45	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		07/25/25 12:56	07/27/25 12:45	1
Isophorone	<0.098		0.098	ug/L		07/25/25 12:56	07/27/25 12:45	1
Lindane	<0.0098		0.0098	ug/L		07/25/25 12:56	07/27/25 12:45	1
Malathion	<0.098		0.098	ug/L		07/25/25 12:56	07/27/25 12:45	1
Methoxychlor	<0.049		0.049	ug/L		07/25/25 12:56	07/27/25 12:45	1
Metolachlor	<0.049		0.049	ug/L		07/25/25 12:56	07/27/25 12:45	1
Molinate	<0.098		0.098	ug/L		07/25/25 12:56	07/27/25 12:45	1
Naphthalene	<0.098		0.098	ug/L		07/25/25 12:56	07/27/25 12:45	1
Parathion	<0.098		0.098	ug/L		07/25/25 12:56	07/27/25 12:45	1
Pendimethalin (Penoxaline)	<0.098		0.098	ug/L		07/25/25 12:56	07/27/25 12:45	1
Phenanthrene	<0.039		0.039	ug/L		07/25/25 12:56	07/27/25 12:45	1
Propachlor	<0.049		0.049	ug/L		07/25/25 12:56	07/27/25 12:45	1
Pyrene	<0.049		0.049	ug/L		07/25/25 12:56	07/27/25 12:45	1
Simazine	<0.049		0.049	ug/L		07/25/25 12:56	07/27/25 12:45	1
Terbacil	<0.098		0.098	ug/L		07/25/25 12:56	07/27/25 12:45	1
Terbutylazine	<0.098		0.098	ug/L		07/25/25 12:56	07/27/25 12:45	1
Thiobencarb	<0.098		0.098	ug/L		07/25/25 12:56	07/27/25 12:45	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		07/25/25 12:56	07/27/25 12:45	1
trans-Nonachlor	<0.049		0.049	ug/L		07/25/25 12:56	07/27/25 12:45	1
Trifluralin	<0.098		0.098	ug/L		07/25/25 12:56	07/27/25 12:45	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Decane	1.93	T J N	ug/L		2.74	124-18-5	07/25/25 12:56	07/27/25 12:45	1
Phenol, m-tert-butyl-	0.524	T J N	ug/L		3.83	585-34-2	07/25/25 12:56	07/27/25 12:45	1
9-Octadecenenamide, (Z)-	1.88	T J N	ug/L		7.85	301-02-0	07/25/25 12:56	07/27/25 12:45	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	92		70 - 130	07/25/25 12:56	07/27/25 12:45	1
Perylene-d12	89		70 - 130	07/25/25 12:56	07/27/25 12:45	1
Triphenylphosphate	113		70 - 130	07/25/25 12:56	07/27/25 12:45	1

Lab Sample ID: LCS 380-165111/23-A

Matrix: Water

Analysis Batch: 165233

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 165111

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	1.97	1.79		ug/L		91	70 - 130
2,4'-DDD	1.97	2.19		ug/L		111	70 - 130
2,4'-DDE	1.97	2.04		ug/L		104	70 - 130
2,4'-DDT	1.97	2.04		ug/L		104	70 - 130
2,4-Dinitrotoluene	1.97	2.19		ug/L		111	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-162205-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

Lab Sample ID: LCS 380-165111/23-A

Matrix: Water

Analysis Batch: 165233

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 165111

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,6-Dinitrotoluene	1.97	1.91		ug/L		97	70 - 130
2-Methylnaphthalene	1.97	1.80		ug/L		91	70 - 130
4,4'-DDD	1.97	2.17		ug/L		110	70 - 130
4,4'-DDE	1.97	2.19		ug/L		111	70 - 130
4,4'-DDT	1.97	2.00		ug/L		102	70 - 130
Acenaphthene	1.97	1.81		ug/L		92	70 - 130
Acenaphthylene	1.97	1.94		ug/L		98	70 - 130
Acetochlor	1.97	2.02		ug/L		103	70 - 130
Alachlor	1.97	2.05		ug/L		104	70 - 130
alpha-BHC	1.97	1.91		ug/L		97	70 - 130
alpha-Chlordane	1.97	2.40		ug/L		122	70 - 130
Anthracene	1.97	2.11		ug/L		107	70 - 130
Atrazine	1.97	2.12		ug/L		108	70 - 130
Benz(a)anthracene	1.97	2.02		ug/L		102	70 - 130
Benzo[a]pyrene	1.97	2.16		ug/L		110	70 - 130
Benzo[b]fluoranthene	1.97	2.08		ug/L		105	70 - 130
Benzo[g,h,i]perylene	1.97	1.85		ug/L		94	70 - 130
Benzo[k]fluoranthene	1.97	2.06		ug/L		104	70 - 130
beta-BHC	1.97	1.93		ug/L		98	70 - 130
Bis(2-ethylhexyl) phthalate	1.97	1.74		ug/L		88	70 - 130
Bromacil	1.97	2.08		ug/L		105	70 - 130
Butachlor	1.97	2.03		ug/L		103	70 - 130
Butylbenzylphthalate	1.97	1.92		ug/L		97	70 - 130
Chlorobenzilate	1.97	1.86		ug/L		94	70 - 130
Chloroneb	1.97	1.92		ug/L		97	70 - 130
Chlorothalonil (Draconil, Bravo)	1.97	2.20		ug/L		112	70 - 130
Chlorpyrifos	1.97	2.14		ug/L		109	70 - 130
Chrysene	1.97	1.93		ug/L		98	70 - 130
delta-BHC	1.97	1.86		ug/L		94	70 - 130
Di(2-ethylhexyl)adipate	1.97	1.91		ug/L		97	70 - 130
Dibenz(a,h)anthracene	1.97	1.96		ug/L		100	70 - 130
Diclorvos (DDVP)	1.97	1.92		ug/L		97	70 - 130
Dieldrin	1.97	1.99		ug/L		101	70 - 130
Diethylphthalate	1.97	2.01		ug/L		102	70 - 130
Dimethylphthalate	1.97	1.97		ug/L		100	70 - 130
Di-n-butyl phthalate	3.94	4.50		ug/L		114	70 - 130
Di-n-octyl phthalate	1.97	1.88		ug/L		95	70 - 130
Endosulfan I (Alpha)	1.97	1.91		ug/L		97	70 - 130
Endosulfan II (Beta)	1.97	1.85		ug/L		94	70 - 130
Endosulfan sulfate	1.97	1.94		ug/L		98	70 - 130
Endrin	1.97	2.26		ug/L		115	70 - 130
Endrin aldehyde	1.97	2.19		ug/L		111	60 - 130
EPTC	1.97	1.92		ug/L		97	70 - 130
Fluoranthene	1.97	2.09		ug/L		106	70 - 130
Fluorene	1.97	1.92		ug/L		98	70 - 130
gamma-Chlordane	1.97	2.33		ug/L		118	70 - 130
Heptachlor	1.97	2.26		ug/L		115	70 - 130
Heptachlor epoxide (isomer B)	1.97	2.33		ug/L		118	70 - 130
Hexachlorobenzene	1.97	2.00		ug/L		102	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-162205-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

Lab Sample ID: LCS 380-165111/23-A

Matrix: Water

Analysis Batch: 165233

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 165111

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Hexachlorocyclopentadiene	1.97	2.22		ug/L		113	70 - 130
Indeno[1,2,3-cd]pyrene	1.97	2.12		ug/L		108	70 - 130
Isophorone	1.97	1.99		ug/L		101	70 - 130
Lindane	1.97	2.09		ug/L		106	70 - 130
Malathion	1.97	2.08		ug/L		106	70 - 130
Methoxychlor	1.97	2.17		ug/L		110	70 - 130
Metolachlor	1.97	2.17		ug/L		110	70 - 130
Molinate	1.97	1.97		ug/L		100	70 - 130
Naphthalene	1.97	1.79		ug/L		91	70 - 130
Parathion	1.97	1.95		ug/L		99	70 - 130
Pendimethalin (Penoxaline)	1.97	2.36		ug/L		120	70 - 130
Phenanthrene	1.97	1.81		ug/L		92	70 - 130
Propachlor	1.97	1.94		ug/L		98	70 - 130
Pyrene	1.97	2.12		ug/L		107	70 - 130
Simazine	1.97	2.00		ug/L		102	70 - 130
Terbacil	1.97	2.02		ug/L		103	70 - 130
Terbutylazine	1.97	2.06		ug/L		104	70 - 130
Thiobencarb	1.97	2.03		ug/L		103	70 - 130
trans-Nonachlor	1.97	2.49		ug/L		126	70 - 130
Trifluralin	1.97	2.23		ug/L		113	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Nitro-m-xylene	91		70 - 130
Perylene-d12	99		70 - 130
Triphenylphosphate	119		70 - 130

Lab Sample ID: LCSD 380-165111/24-A

Matrix: Water

Analysis Batch: 165233

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 165111

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	1.96	1.84		ug/L		94	70 - 130	3	20
2,4'-DDD	1.96	2.21		ug/L		113	70 - 130	1	20
2,4'-DDE	1.96	2.05		ug/L		105	70 - 130	0	20
2,4'-DDT	1.96	2.04		ug/L		104	70 - 130	0	20
2,4-Dinitrotoluene	1.96	1.90		ug/L		97	70 - 130	14	20
2,6-Dinitrotoluene	1.96	1.68		ug/L		85	70 - 130	13	20
2-Methylnaphthalene	1.96	1.85		ug/L		94	70 - 130	3	20
4,4'-DDD	1.96	2.16		ug/L		110	70 - 130	0	20
4,4'-DDE	1.96	2.21		ug/L		113	70 - 130	1	20
4,4'-DDT	1.96	2.00		ug/L		102	70 - 130	0	20
Acenaphthene	1.96	1.83		ug/L		93	70 - 130	1	20
Acenaphthylene	1.96	1.94		ug/L		99	70 - 130	0	20
Acetochlor	1.96	2.06		ug/L		105	70 - 130	2	20
Alachlor	1.96	2.10		ug/L		107	70 - 130	2	20
alpha-BHC	1.96	1.89		ug/L		96	70 - 130	1	20
alpha-Chlordane	1.96	2.44		ug/L		124	70 - 130	1	20
Anthracene	1.96	2.07		ug/L		105	70 - 130	2	20

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-162205-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

Lab Sample ID: LCSD 380-165111/24-A

Matrix: Water

Analysis Batch: 165233

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 165111

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Atrazine	1.96	2.05		ug/L		104	70 - 130	4	20
Benz(a)anthracene	1.96	1.99		ug/L		101	70 - 130	1	20
Benzo[a]pyrene	1.96	2.19		ug/L		112	70 - 130	1	20
Benzo[b]fluoranthene	1.96	2.10		ug/L		107	70 - 130	1	20
Benzo[g,h,i]perylene	1.96	1.91		ug/L		97	70 - 130	3	20
Benzo[k]fluoranthene	1.96	2.10		ug/L		107	70 - 130	2	20
beta-BHC	1.96	1.90		ug/L		97	70 - 130	2	20
Bis(2-ethylhexyl) phthalate	1.96	1.81		ug/L		92	70 - 130	4	20
Bromacil	1.96	1.89		ug/L		96	70 - 130	9	20
Butachlor	1.96	2.05		ug/L		104	70 - 130	1	20
Butylbenzylphthalate	1.96	1.96		ug/L		100	70 - 130	2	20
Chlorobenzilate	1.96	1.87		ug/L		95	70 - 130	1	20
Chloroneb	1.96	1.92		ug/L		98	70 - 130	0	20
Chlorothalonil (Draconil, Bravo)	1.96	2.16		ug/L		110	70 - 130	2	20
Chlorpyrifos	1.96	2.13		ug/L		109	70 - 130	0	20
Chrysene	1.96	1.94		ug/L		99	70 - 130	0	20
delta-BHC	1.96	1.85		ug/L		94	70 - 130	1	20
Di(2-ethylhexyl)adipate	1.96	1.92		ug/L		98	70 - 130	0	20
Dibenz(a,h)anthracene	1.96	1.99		ug/L		101	70 - 130	1	20
Diclorvos (DDVP)	1.96	1.80		ug/L		92	70 - 130	7	20
Dieldrin	1.96	2.04		ug/L		104	70 - 130	2	20
Diethylphthalate	1.96	2.01		ug/L		102	70 - 130	0	20
Dimethylphthalate	1.96	1.92		ug/L		98	70 - 130	2	20
Di-n-butyl phthalate	3.93	4.58		ug/L		117	70 - 130	2	20
Di-n-octyl phthalate	1.96	1.93		ug/L		98	70 - 130	3	20
Endosulfan I (Alpha)	1.96	1.98		ug/L		101	70 - 130	4	20
Endosulfan II (Beta)	1.96	1.89		ug/L		96	70 - 130	2	20
Endosulfan sulfate	1.96	2.00		ug/L		102	70 - 130	3	20
Endrin	1.96	2.29		ug/L		117	70 - 130	1	20
Endrin aldehyde	1.96	2.27		ug/L		115	60 - 130	4	20
EPTC	1.96	2.00		ug/L		102	70 - 130	4	20
Fluoranthene	1.96	2.06		ug/L		105	70 - 130	2	20
Fluorene	1.96	1.93		ug/L		98	70 - 130	0	20
gamma-Chlordane	1.96	2.39		ug/L		122	70 - 130	3	20
Heptachlor	1.96	2.36		ug/L		120	70 - 130	4	20
Heptachlor epoxide (isomer B)	1.96	2.38		ug/L		121	70 - 130	2	20
Hexachlorobenzene	1.96	2.06		ug/L		105	70 - 130	3	20
Hexachlorocyclopentadiene	1.96	2.24		ug/L		114	70 - 130	1	20
Indeno[1,2,3-cd]pyrene	1.96	2.18		ug/L		111	70 - 130	3	20
Isophorone	1.96	2.03		ug/L		103	70 - 130	2	20
Lindane	1.96	2.04		ug/L		104	70 - 130	3	20
Malathion	1.96	2.10		ug/L		107	70 - 130	1	20
Methoxychlor	1.96	2.21		ug/L		112	70 - 130	2	20
Metolachlor	1.96	2.20		ug/L		112	70 - 130	2	20
Molinate	1.96	1.98		ug/L		101	70 - 130	1	20
Naphthalene	1.96	1.83		ug/L		93	70 - 130	2	20
Parathion	1.96	1.92		ug/L		98	70 - 130	1	20
Pendimethalin (Penoxaline)	1.96	2.34		ug/L		119	70 - 130	1	20
Phenanthrene	1.96	1.82		ug/L		93	70 - 130	0	20

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-162205-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

Lab Sample ID: LCSD 380-165111/24-A

Matrix: Water

Analysis Batch: 165233

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 165111

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Propachlor	1.96	1.93		ug/L		98	70 - 130	1	20
Pyrene	1.96	2.09		ug/L		107	70 - 130	1	20
Simazine	1.96	1.85		ug/L		94	70 - 130	8	20
Terbacil	1.96	1.86		ug/L		95	70 - 130	8	20
Terbuthylazine	1.96	2.06		ug/L		105	70 - 130	0	20
Thiobencarb	1.96	2.01		ug/L		103	70 - 130	1	20
trans-Nonachlor	1.96	2.55		ug/L		130	70 - 130	3	20
Trifluralin	1.96	2.26		ug/L		115	70 - 130	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Nitro-m-xylene	92		70 - 130
Perylene-d12	100		70 - 130
Triphenylphosphate	118		70 - 130

Lab Sample ID: MRL 380-165111/22-A

Matrix: Water

Analysis Batch: 165233

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 165111

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	0.0983	0.106		ug/L		108	50 - 150
2,4'-DDD	0.0983	0.0961	J	ug/L		98	50 - 150
2,4'-DDE	0.0983	0.101		ug/L		103	50 - 150
2,4'-DDT	0.0983	0.127		ug/L		129	50 - 150
2,4-Dinitrotoluene	0.0983	0.134		ug/L		136	50 - 150
2,6-Dinitrotoluene	0.0983	0.115		ug/L		117	50 - 150
2-Methylnaphthalene	0.0983	0.0994		ug/L		101	50 - 150
4,4'-DDD	0.0983	0.104		ug/L		106	50 - 150
4,4'-DDE	0.0983	0.102		ug/L		104	50 - 150
4,4'-DDT	0.0983	0.131		ug/L		134	50 - 150
Acenaphthene	0.0983	0.0933	J	ug/L		95	50 - 150
Acenaphthylene	0.0983	0.0910	J	ug/L		93	50 - 150
Acetochlor	0.0983	0.109		ug/L		111	50 - 150
Alachlor	0.0491	0.0552		ug/L		112	50 - 150
alpha-BHC	0.0983	0.0963	J	ug/L		98	50 - 150
alpha-Chlordane	0.0246	0.0301	J	ug/L		122	50 - 150
Anthracene	0.0197	0.0224		ug/L		114	50 - 150
Atrazine	0.0491	0.0615		ug/L		125	50 - 150
Benz(a)anthracene	0.0491	0.0559		ug/L		114	50 - 150
Benzo[a]pyrene	0.0197	0.0282		ug/L		143	50 - 150
Benzo[b]fluoranthene	0.0197	0.0263		ug/L		134	50 - 150
Benzo[g,h,i]perylene	0.0491	0.0549		ug/L		112	50 - 150
Benzo[k]fluoranthene	0.0197	0.0228		ug/L		116	50 - 150
beta-BHC	0.0983	0.103		ug/L		105	50 - 150
Bis(2-ethylhexyl) phthalate	0.590	0.550	J	ug/L		93	50 - 150
Bromacil	0.0983	0.134		ug/L		136	50 - 150
Butachlor	0.0491	0.0625		ug/L		127	50 - 150
Butylbenzylphthalate	0.491	0.512		ug/L		104	50 - 150
Chlorobenzilate	0.0983	0.110		ug/L		112	50 - 150

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QC Sample Results

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

Job ID: 380-162205-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

Lab Sample ID: MRL 380-165111/22-A

Matrix: Water

Analysis Batch: 165233

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 165111

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chloroneb	0.0983	0.114		ug/L		116	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0983	0.0920	J	ug/L		94	50 - 150
Chlorpyrifos	0.0491	0.0571		ug/L		116	50 - 150
Chrysene	0.0197	0.0222		ug/L		113	50 - 150
delta-BHC	0.0983	0.0917	J	ug/L		93	50 - 150
Di(2-ethylhexyl)adipate	0.590	0.598		ug/L		101	50 - 150
Dibenz(a,h)anthracene	0.0491	0.0620		ug/L		126	50 - 150
Diclorvos (DDVP)	0.0491	0.0595		ug/L		121	50 - 150
Dieldrin	0.00983	0.0135		ug/L		137	50 - 150
Diethylphthalate	0.491	0.531		ug/L		108	50 - 150
Dimethylphthalate	0.491	0.526		ug/L		107	50 - 150
Di-n-butyl phthalate	0.491	0.881	J	ug/L		179	49 - 243
Di-n-octyl phthalate	0.0983	0.0945	J	ug/L		96	50 - 150
Endosulfan I (Alpha)	0.0983	0.0740	J	ug/L		75	50 - 150
Endosulfan II (Beta)	0.0983	0.0998		ug/L		102	50 - 150
Endosulfan sulfate	0.0983	0.122		ug/L		124	50 - 150
Endrin	0.00983	0.0142		ug/L		145	50 - 150
Endrin aldehyde	0.0983	0.133		ug/L		135	50 - 150
EPTC	0.0983	0.0959	J	ug/L		98	50 - 150
Fluoranthene	0.0983	0.100		ug/L		102	50 - 150
Fluorene	0.0491	0.0497		ug/L		101	50 - 150
gamma-Chlordane	0.0246	0.0281	J	ug/L		114	50 - 150
Heptachlor	0.00983	0.0122		ug/L		125	50 - 150
Heptachlor epoxide (isomer B)	0.00983	0.0115		ug/L		117	50 - 150
Hexachlorobenzene	0.0491	0.0514		ug/L		105	50 - 150
Hexachlorocyclopentadiene	0.0491	0.0514		ug/L		105	50 - 150
Indeno[1,2,3-cd]pyrene	0.0491	0.0637		ug/L		130	50 - 150
Isophorone	0.0983	0.110		ug/L		112	50 - 150
Lindane	0.00983	0.0122		ug/L		124	50 - 150
Malathion	0.0983	0.119		ug/L		121	50 - 150
Methoxychlor	0.0491	0.0654		ug/L		133	50 - 150
Metolachlor	0.0491	0.0588		ug/L		120	50 - 150
Molinate	0.0983	0.102		ug/L		104	50 - 150
Naphthalene	0.0983	0.0939	J	ug/L		96	50 - 150
Parathion	0.0983	0.103		ug/L		105	50 - 150
Pendimethalin (Penoxaline)	0.0983	0.141		ug/L		143	50 - 150
Phenanthrene	0.0393	0.0423		ug/L		108	50 - 150
Propachlor	0.0491	0.0584		ug/L		119	50 - 150
Pyrene	0.0491	0.0508		ug/L		103	50 - 150
Simazine	0.0491	0.0604		ug/L		123	50 - 150
Terbacil	0.0983	0.118		ug/L		121	50 - 150
Terbutylazine	0.0983	0.114		ug/L		116	50 - 150
Thiobencarb	0.0983	0.0987		ug/L		100	50 - 150
trans-Nonachlor	0.0246	0.0300	J	ug/L		122	50 - 150
Trifluralin	0.0983	0.137		ug/L		139	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
2-Nitro-m-xylene	92		70 - 130

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QC Sample Results

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

Job ID: 380-162205-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

Lab Sample ID: MRL 380-165111/22-A
Matrix: Water
Analysis Batch: 165233

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 165111

Surrogate	MRL %Recovery	MRL Qualifier	Limits
Perylene-d12	93		70 - 130
Triphenylphosphate	114		70 - 130

Lab Sample ID: 380-162176-I-1-A MS
Matrix: Water
Analysis Batch: 165233

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 165111

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.097		1.97	1.81		ug/L		91	70 - 130
2,4'-DDD	<0.097		1.97	2.18		ug/L		111	70 - 130
2,4'-DDE	<0.097		1.97	2.02		ug/L		103	70 - 130
2,4'-DDT	<0.097		1.97	2.02		ug/L		102	70 - 130
2,4-Dinitrotoluene	<0.097		1.97	2.24		ug/L		113	70 - 130
2,6-Dinitrotoluene	<0.097		1.97	1.93		ug/L		98	70 - 130
2-Methylnaphthalene	<0.097		1.97	1.82		ug/L		92	70 - 130
4,4'-DDD	<0.097		1.97	2.14		ug/L		109	70 - 130
4,4'-DDE	<0.097		1.97	2.17		ug/L		110	70 - 130
4,4'-DDT	<0.097		1.97	1.99		ug/L		101	70 - 130
Acenaphthene	<0.097		1.97	1.83		ug/L		93	70 - 130
Acenaphthylene	<0.097		1.97	2.05		ug/L		104	70 - 130
Acetochlor	<0.097		1.97	2.03		ug/L		103	70 - 130
Alachlor	<0.049		1.97	2.01		ug/L		102	70 - 130
alpha-BHC	<0.097		1.97	1.90		ug/L		97	70 - 130
alpha-Chlordane	<0.049		1.97	2.39		ug/L		120	70 - 130
Anthracene	<0.019		1.97	2.08		ug/L		106	70 - 130
Atrazine	<0.049		1.97	2.11		ug/L		107	70 - 130
Benz(a)anthracene	<0.049		1.97	2.01		ug/L		102	70 - 130
Benzo[a]pyrene	<0.019		1.97	2.22		ug/L		113	70 - 130
Benzo[b]fluoranthene	<0.019		1.97	2.08		ug/L		106	70 - 130
Benzo[g,h,i]perylene	<0.049		1.97	1.84		ug/L		93	70 - 130
Benzo[k]fluoranthene	<0.019		1.97	2.05		ug/L		104	70 - 130
beta-BHC	<0.097		1.97	1.94		ug/L		98	70 - 130
Bis(2-ethylhexyl) phthalate	<0.58		1.97	1.80		ug/L		92	70 - 130
Bromacil	<0.097		1.97	2.12		ug/L		105	70 - 130
Butachlor	<0.049		1.97	2.02		ug/L		102	70 - 130
Butylbenzylphthalate	<0.49		1.97	1.91		ug/L		97	70 - 130
Chlorobenzilate	<0.097		1.97	1.86		ug/L		94	70 - 130
Chloroneb	<0.097		1.97	1.88		ug/L		96	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.097		1.97	2.21		ug/L		112	70 - 130
Chlorpyrifos	<0.049		1.97	2.10		ug/L		107	70 - 130
Chrysene	<0.019		1.97	1.94		ug/L		99	70 - 130
delta-BHC	<0.097		1.97	1.82		ug/L		92	70 - 130
Di(2-ethylhexyl)adipate	<0.58		1.97	1.89		ug/L		96	70 - 130
Dibenz(a,h)anthracene	<0.049		1.97	1.95		ug/L		99	70 - 130
Diclorvos (DDVP)	<0.049		1.97	1.95		ug/L		99	70 - 130
Dieldrin	0.078		1.97	2.08		ug/L		101	70 - 130
Diethylphthalate	<0.49		1.97	2.01		ug/L		102	70 - 130
Dimethylphthalate	<0.49		1.97	1.98		ug/L		100	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-162205-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

Lab Sample ID: 380-162176-I-1-A MS

Matrix: Water

Analysis Batch: 165233

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 165111

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Di-n-butyl phthalate	<0.97		3.94	4.50		ug/L		109	70 - 130
Di-n-octyl phthalate	<0.097		1.97	1.93		ug/L		98	70 - 130
Endosulfan I (Alpha)	<0.097		1.97	1.89		ug/L		96	70 - 130
Endosulfan II (Beta)	<0.097		1.97	1.84		ug/L		94	70 - 130
Endosulfan sulfate	<0.097		1.97	1.94		ug/L		98	70 - 130
Endrin	<0.0097		1.97	2.24		ug/L		114	70 - 130
Endrin aldehyde	<0.097		1.97	2.14		ug/L		109	60 - 130
EPTC	<0.097		1.97	1.96		ug/L		100	70 - 130
Fluoranthene	<0.097		1.97	2.06		ug/L		105	70 - 130
Fluorene	<0.049		1.97	1.95		ug/L		99	70 - 130
gamma-Chlordane	<0.049		1.97	2.36		ug/L		119	70 - 130
Heptachlor	<0.0097		1.97	2.28		ug/L		116	70 - 130
Heptachlor epoxide (isomer B)	0.013		1.97	2.30		ug/L		116	70 - 130
Hexachlorobenzene	<0.049		1.97	2.06		ug/L		104	70 - 130
Hexachlorocyclopentadiene	<0.049		1.97	2.32		ug/L		118	70 - 130
Indeno[1,2,3-cd]pyrene	<0.049		1.97	2.18		ug/L		110	70 - 130
Isophorone	<0.097		1.97	2.04		ug/L		104	70 - 130
Lindane	<0.0097		1.97	2.07		ug/L		105	70 - 130
Malathion	<0.097		1.97	2.08		ug/L		105	70 - 130
Methoxychlor	<0.049		1.97	2.19		ug/L		111	70 - 130
Metolachlor	<0.049		1.97	2.11		ug/L		107	70 - 130
Molinate	<0.097		1.97	1.99		ug/L		101	70 - 130
Naphthalene	<0.097		1.97	1.80		ug/L		91	70 - 130
Parathion	<0.097		1.97	1.93		ug/L		98	70 - 130
Pendimethalin (Penoxaline)	<0.097		1.97	2.36		ug/L		120	70 - 130
Phenanthrene	<0.039		1.97	1.81		ug/L		92	70 - 130
Propachlor	<0.049		1.97	1.95		ug/L		99	70 - 130
Pyrene	<0.049		1.97	2.09		ug/L		106	70 - 130
Simazine	<0.049		1.97	1.99		ug/L		101	70 - 130
Terbacil	<0.097		1.97	2.01		ug/L		102	70 - 130
Terbutylazine	<0.097		1.97	2.07		ug/L		105	70 - 130
Thiobencarb	<0.097		1.97	2.01		ug/L		102	70 - 130
trans-Nonachlor	<0.049		1.97	2.50		ug/L		126	70 - 130
Trifluralin	<0.097		1.97	2.30		ug/L		116	70 - 130
Surrogate	MS %Recovery	MS Qualifier	MS Limits						
2-Nitro-m-xylene	92		70 - 130						
Perylene-d12	101		70 - 130						
Triphenylphosphate	118		70 - 130						

Lab Sample ID: 380-162185-I-1-A DU

Matrix: Water

Analysis Batch: 165233

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 165111

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
1-Methylnaphthalene	<0.099		<0.098		ug/L		NC	20
2,4'-DDD	<0.099		<0.098		ug/L		NC	20
2,4'-DDE	<0.099		<0.098		ug/L		NC	20

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-162205-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

Lab Sample ID: 380-162185-I-1-A DU

Matrix: Water

Analysis Batch: 165233

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 165111

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
2,4'-DDT	<0.099		<0.098		ug/L		NC	20
2,4-Dinitrotoluene	<0.099		<0.098		ug/L		NC	20
2,6-Dinitrotoluene	<0.099		<0.098		ug/L		NC	20
2-Methylnaphthalene	<0.099		<0.098		ug/L		NC	20
4,4'-DDD	<0.099		<0.098		ug/L		NC	20
4,4'-DDE	<0.099		<0.098		ug/L		NC	20
4,4'-DDT	<0.099		<0.098		ug/L		NC	20
Acenaphthene	<0.099		<0.098		ug/L		NC	20
Acenaphthylene	<0.099		<0.098		ug/L		NC	20
Acetochlor	<0.099		<0.098		ug/L		NC	20
Alachlor	<0.050		<0.049		ug/L		NC	20
alpha-BHC	<0.099		<0.098		ug/L		NC	20
alpha-Chlordane	<0.050		<0.049		ug/L		NC	20
Anthracene	<0.020		<0.020		ug/L		NC	20
Atrazine	<0.050		<0.049		ug/L		NC	20
Benz(a)anthracene	<0.050		<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	<0.050		<0.049		ug/L		NC	20
Benzo[k]fluoranthene	<0.020		<0.020		ug/L		NC	20
beta-BHC	<0.099		<0.098		ug/L		NC	20
Bis(2-ethylhexyl) phthalate	<0.60		<0.59		ug/L		NC	20
Bromacil	<0.099		<0.098		ug/L		NC	20
Butachlor	<0.050		<0.049		ug/L		NC	20
Butylbenzylphthalate	<0.50		<0.49		ug/L		NC	20
Chlorobenzilate	<0.099		<0.098		ug/L		NC	20
Chloroneb	<0.099		<0.098		ug/L		NC	20
Chlorothalonil (Draconil, Bravo)	<0.099		<0.098		ug/L		NC	20
Chlorpyrifos	<0.050		<0.049		ug/L		NC	20
Chrysene	<0.020		<0.020		ug/L		NC	20
delta-BHC	<0.099		<0.098		ug/L		NC	20
Di(2-ethylhexyl)adipate	<0.60		<0.59		ug/L		NC	20
Dibenz(a,h)anthracene	<0.050		<0.049		ug/L		NC	20
Diclorvos (DDVP)	<0.050		<0.049		ug/L		NC	20
Dieldrin	0.033		0.0378		ug/L		13	20
Diethylphthalate	<0.50		<0.49		ug/L		NC	20
Dimethylphthalate	<0.50		<0.49		ug/L		NC	20
Di-n-butyl phthalate	<0.99		<0.98		ug/L		NC	20
Di-n-octyl phthalate	<0.099		<0.098		ug/L		NC	20
Endosulfan I (Alpha)	<0.099		<0.098		ug/L		NC	20
Endosulfan II (Beta)	<0.099		<0.098		ug/L		NC	20
Endosulfan sulfate	<0.099		<0.098		ug/L		NC	20
Endrin	<0.0099		<0.0098		ug/L		NC	20
Endrin aldehyde	<0.099		<0.098		ug/L		NC	20
EPTC	<0.099		<0.098		ug/L		NC	20
Fluoranthene	<0.099		<0.098		ug/L		NC	20
Fluorene	<0.050		<0.049		ug/L		NC	20
gamma-Chlordane	<0.050		<0.049		ug/L		NC	20
Heptachlor	<0.0099		<0.0098		ug/L		NC	20

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-162205-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

Lab Sample ID: 380-162185-I-1-A DU

Matrix: Water

Analysis Batch: 165233

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 165111

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Heptachlor epoxide (isomer B)	0.013		0.0143		ug/L		7	20
Hexachlorobenzene	<0.050		<0.049		ug/L		NC	20
Hexachlorocyclopentadiene	<0.050		<0.049		ug/L		NC	20
Indeno[1,2,3-cd]pyrene	<0.050		<0.049		ug/L		NC	20
Isophorone	<0.099		<0.098		ug/L		NC	20
Lindane	<0.0099		<0.0098		ug/L		NC	20
Malathion	<0.099		<0.098		ug/L		NC	20
Methoxychlor	<0.050		<0.049		ug/L		NC	20
Metolachlor	<0.050		<0.049		ug/L		NC	20
Molinate	<0.099		<0.098		ug/L		NC	20
Naphthalene	<0.099		<0.098		ug/L		NC	20
Parathion	<0.099		<0.098		ug/L		NC	20
Pendimethalin (Penoxaline)	<0.099		<0.098		ug/L		NC	20
Phenanthrene	<0.040		<0.039		ug/L		NC	20
Propachlor	<0.050		<0.049		ug/L		NC	20
Pyrene	<0.050		<0.049		ug/L		NC	20
Simazine	<0.050		<0.049		ug/L		NC	20
Terbacil	<0.099		<0.098		ug/L		NC	20
Terbutylazine	<0.099		<0.098		ug/L		NC	20
Thiobencarb	<0.099		<0.098		ug/L		NC	20
Total Permethrin (mixed isomers)	<0.20		<0.20		ug/L		NC	20
trans-Nonachlor	<0.050		<0.049		ug/L		NC	20
Trifluralin	<0.099		<0.098		ug/L		NC	20

Surrogate	%Recovery	Qualifier	Limits
2-Nitro-m-xylene	92		70 - 130
Perylene-d12	93		70 - 130
Triphenylphosphate	115		70 - 130

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

Lab Sample ID: MB 570-601667/1-A

Matrix: Water

Analysis Batch: 606410

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 601667

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	07/24/25 09:45	08/04/25 12:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	83		33 - 139	07/24/25 09:45	08/04/25 12:24	1
2-Fluorobiphenyl (Surr)	82		33 - 126	07/24/25 09:45	08/04/25 12:24	1
2-Fluorophenol (Surr)	44		12 - 120	07/24/25 09:45	08/04/25 12:24	1
Nitrobenzene-d5 (Surr)	94		36 - 120	07/24/25 09:45	08/04/25 12:24	1
Phenol-d6 (Surr)	24		10 - 120	07/24/25 09:45	08/04/25 12:24	1
p-Terphenyl-d14 (Surr)	88		47 - 131	07/24/25 09:45	08/04/25 12:24	1

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-162205-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

Lab Sample ID: MB 570-601667/1-A

Matrix: Water

Analysis Batch: 604257

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 601667

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.20		0.20	ug/L		07/24/25 09:45	07/29/25 22:46	1
2-Methylnaphthalene	<0.20		0.20	ug/L		07/24/25 09:45	07/29/25 22:46	1
Acenaphthene	<0.20		0.20	ug/L		07/24/25 09:45	07/29/25 22:46	1
Acenaphthylene	<0.20		0.20	ug/L		07/24/25 09:45	07/29/25 22:46	1
Anthracene	<0.20		0.20	ug/L		07/24/25 09:45	07/29/25 22:46	1
Benzo[a]anthracene	<0.20		0.20	ug/L		07/24/25 09:45	07/29/25 22:46	1
Benzo[a]pyrene	<0.20		0.20	ug/L		07/24/25 09:45	07/29/25 22:46	1
Benzo[b]fluoranthene	<0.20		0.20	ug/L		07/24/25 09:45	07/29/25 22:46	1
Benzo[g,h,i]perylene	<0.20		0.20	ug/L		07/24/25 09:45	07/29/25 22:46	1
Benzo[k]fluoranthene	<0.20		0.20	ug/L		07/24/25 09:45	07/29/25 22:46	1
Chrysene	<0.20		0.20	ug/L		07/24/25 09:45	07/29/25 22:46	1
Dibenz(a,h)anthracene	<0.20		0.20	ug/L		07/24/25 09:45	07/29/25 22:46	1
Fluoranthene	<0.20		0.20	ug/L		07/24/25 09:45	07/29/25 22:46	1
Fluorene	<0.20		0.20	ug/L		07/24/25 09:45	07/29/25 22:46	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20	ug/L		07/24/25 09:45	07/29/25 22:46	1
Naphthalene	<0.20		0.20	ug/L		07/24/25 09:45	07/29/25 22:46	1
Phenanthrene	<0.20		0.20	ug/L		07/24/25 09:45	07/29/25 22:46	1
Pyrene	<0.20		0.20	ug/L		07/24/25 09:45	07/29/25 22:46	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	86		28 - 127	07/24/25 09:45	07/29/25 22:46	1
2-Fluorobiphenyl (Surr)	80		31 - 120	07/24/25 09:45	07/29/25 22:46	1
2-Fluorophenol (Surr)	41		17 - 120	07/24/25 09:45	07/29/25 22:46	1
Nitrobenzene-d5 (Surr)	83		27 - 120	07/24/25 09:45	07/29/25 22:46	1
Phenol-d6 (Surr)	25		10 - 120	07/24/25 09:45	07/29/25 22:46	1
p-Terphenyl-d14 (Surr)	87		45 - 120	07/24/25 09:45	07/29/25 22:46	1

Lab Sample ID: LCS 570-601667/2-A

Matrix: Water

Analysis Batch: 604257

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 601667

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	20.0	14.7		ug/L		74	47 - 120
2-Methylnaphthalene	20.0	14.3		ug/L		72	43 - 120
Acenaphthene	20.0	17.1		ug/L		85	60 - 132
Acenaphthylene	20.0	17.7		ug/L		89	54 - 126
Anthracene	20.0	17.2		ug/L		86	43 - 120
Benzo[a]anthracene	20.0	17.8		ug/L		89	42 - 133
Benzo[a]pyrene	20.0	17.2		ug/L		86	32 - 148
Benzo[b]fluoranthene	20.0	17.5		ug/L		88	42 - 140
Benzo[g,h,i]perylene	20.0	17.7		ug/L		88	1 - 195
Benzo[k]fluoranthene	20.0	17.2		ug/L		86	25 - 146
Chrysene	20.0	17.9		ug/L		90	44 - 140
Dibenz(a,h)anthracene	20.0	17.8		ug/L		89	1 - 200
Fluoranthene	20.0	16.9		ug/L		85	43 - 121
Fluorene	20.0	17.4		ug/L		87	70 - 120
Indeno[1,2,3-cd]pyrene	20.0	16.8		ug/L		84	1 - 151
Naphthalene	20.0	14.2		ug/L		71	36 - 120

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-162205-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

Lab Sample ID: LCS 570-601667/2-A

Matrix: Water

Analysis Batch: 604257

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 601667

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phenanthrene	20.0	17.6		ug/L		88	65 - 120
Pyrene	20.0	19.9		ug/L		100	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	82		28 - 127
2-Fluorobiphenyl (Surr)	83		31 - 120
2-Fluorophenol (Surr)	45		17 - 120
Nitrobenzene-d5 (Surr)	70		27 - 120
Phenol-d6 (Surr)	28		10 - 120
p-Terphenyl-d14 (Surr)	91		45 - 120

Lab Sample ID: LCSD 570-601667/3-A

Matrix: Water

Analysis Batch: 604257

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 601667

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	20.0	16.2		ug/L		81	47 - 120	10	20
2-Methylnaphthalene	20.0	15.7		ug/L		79	43 - 120	9	20
Acenaphthene	20.0	19.2		ug/L		96	60 - 132	12	29
Acenaphthylene	20.0	19.8		ug/L		99	54 - 126	11	45
Anthracene	20.0	19.2		ug/L		96	43 - 120	11	40
Benzo[a]anthracene	20.0	19.8		ug/L		99	42 - 133	11	32
Benzo[a]pyrene	20.0	19.3		ug/L		97	32 - 148	12	43
Benzo[b]fluoranthene	20.0	19.4		ug/L		97	42 - 140	10	43
Benzo[g,h,i]perylene	20.0	20.0		ug/L		100	1 - 195	12	61
Benzo[k]fluoranthene	20.0	19.3		ug/L		97	25 - 146	12	38
Chrysene	20.0	19.8		ug/L		99	44 - 140	10	53
Dibenz(a,h)anthracene	20.0	19.7		ug/L		99	1 - 200	10	75
Fluoranthene	20.0	19.0		ug/L		95	43 - 121	12	40
Fluorene	20.0	19.5		ug/L		98	70 - 120	12	23
Indeno[1,2,3-cd]pyrene	20.0	18.8		ug/L		94	1 - 151	11	60
Naphthalene	20.0	15.9		ug/L		80	36 - 120	12	39
Phenanthrene	20.0	19.3		ug/L		96	65 - 120	9	24
Pyrene	20.0	21.6		ug/L		108	70 - 120	8	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	92		28 - 127
2-Fluorobiphenyl (Surr)	92		31 - 120
2-Fluorophenol (Surr)	50		17 - 120
Nitrobenzene-d5 (Surr)	77		27 - 120
Phenol-d6 (Surr)	31		10 - 120
p-Terphenyl-d14 (Surr)	97		45 - 120

QC Sample Results

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

Job ID: 380-162205-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

Lab Sample ID: 380-162185-A-1-A MS

Matrix: Water

Analysis Batch: 604257

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 601667

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.19		19.8	15.9		ug/L		80	36 - 120
2-Methylnaphthalene	<0.19		19.8	15.6		ug/L		79	32 - 124
Acenaphthene	<0.19		19.8	18.2		ug/L		92	47 - 145
Acenaphthylene	<0.19		19.8	19.0		ug/L		96	33 - 145
Anthracene	<0.19		19.8	17.9		ug/L		91	27 - 133
Benzo[a]anthracene	<0.19		19.8	18.9		ug/L		95	33 - 143
Benzo[a]pyrene	<0.19		19.8	17.8		ug/L		90	17 - 163
Benzo[b]fluoranthene	<0.19		19.8	17.8		ug/L		90	24 - 159
Benzo[g,h,i]perylene	<0.19		19.8	18.1		ug/L		91	1 - 219
Benzo[k]fluoranthene	<0.19		19.8	17.6		ug/L		89	11 - 162
Chrysene	<0.19		19.8	18.5		ug/L		93	17 - 168
Dibenz(a,h)anthracene	<0.19		19.8	18.2		ug/L		92	1 - 227
Fluoranthene	<0.19		19.8	17.9		ug/L		90	26 - 137
Fluorene	<0.19		19.8	18.6		ug/L		94	59 - 121
Indeno[1,2,3-cd]pyrene	<0.19		19.8	17.2		ug/L		87	1 - 171
Naphthalene	<0.19		19.8	15.1		ug/L		76	21 - 133
Phenanthrene	<0.19		19.8	18.4		ug/L		93	54 - 120
Pyrene	<0.19		19.8	21.2		ug/L		107	52 - 120

Surrogate	MS %Recovery	MS Qualifier	MS Limits
2,4,6-Tribromophenol (Surr)	86		28 - 127
2-Fluorobiphenyl (Surr)	88		31 - 120
2-Fluorophenol (Surr)	49		17 - 120
Nitrobenzene-d5 (Surr)	73		27 - 120
Phenol-d6 (Surr)	29		10 - 120
p-Terphenyl-d14 (Surr)	96		45 - 120

Lab Sample ID: 380-162185-A-1-B MSD

Matrix: Water

Analysis Batch: 604257

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 601667

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	<0.19		19.2	13.4		ug/L		70	36 - 120	17	30
2-Methylnaphthalene	<0.19		19.2	13.2		ug/L		69	32 - 124	17	30
Acenaphthene	<0.19		19.2	13.5		ug/L		70	47 - 145	30	48
Acenaphthylene	<0.19		19.2	13.8		ug/L		71	33 - 145	32	74
Anthracene	<0.19		19.2	13.1		ug/L		68	27 - 133	32	66
Benzo[a]anthracene	<0.19		19.2	13.7		ug/L		71	33 - 143	32	53
Benzo[a]pyrene	<0.19		19.2	12.8		ug/L		67	17 - 163	32	72
Benzo[b]fluoranthene	<0.19		19.2	13.1		ug/L		68	24 - 159	31	71
Benzo[g,h,i]perylene	<0.19		19.2	13.1		ug/L		68	1 - 219	32	97
Benzo[k]fluoranthene	<0.19		19.2	13.0		ug/L		68	11 - 162	30	63
Chrysene	<0.19		19.2	13.6		ug/L		71	17 - 168	30	87
Dibenz(a,h)anthracene	<0.19		19.2	13.5		ug/L		70	1 - 227	29	126
Fluoranthene	<0.19		19.2	13.2		ug/L		69	26 - 137	30	66
Fluorene	<0.19		19.2	13.3		ug/L		69	59 - 121	33	38
Indeno[1,2,3-cd]pyrene	<0.19		19.2	12.7		ug/L		66	1 - 171	31	99
Naphthalene	<0.19		19.2	13.4		ug/L		70	21 - 133	12	65

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-162205-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

Lab Sample ID: 380-162185-A-1-B MSD

Matrix: Water

Analysis Batch: 604257

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 601667

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenanthrene	<0.19		19.2	13.7		ug/L		71	54 - 120	30	39
Pyrene	<0.19		19.2	14.7		ug/L		76	52 - 120	36	49

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	65		28 - 127
2-Fluorobiphenyl (Surr)	66		31 - 120
2-Fluorophenol (Surr)	36		17 - 120
Nitrobenzene-d5 (Surr)	65		27 - 120
Phenol-d6 (Surr)	22		10 - 120
p-Terphenyl-d14 (Surr)	68		45 - 120

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

Lab Sample ID: MB 570-606111/10

Matrix: Water

Analysis Batch: 606111

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	<10		10	ug/L			08/02/25 14:28	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		38 - 134		08/02/25 14:28	1

Lab Sample ID: LCS 570-606111/1008

Matrix: Water

Analysis Batch: 606111

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	387		ug/L		97	78 - 120

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

Lab Sample ID: LCSD 570-606111/9

Matrix: Water

Analysis Batch: 606111

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	392		ug/L		98	78 - 120	1	10

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		38 - 134

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-162205-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

Lab Sample ID: MRL 570-606111/11

Matrix: Water

Analysis Batch: 606111

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	8.73	J	ug/L		87	50 - 150
Surrogate	MRL %Recovery	MRL Qualifier	Limits				
4-Bromofluorobenzene (Surr)	79		38 - 134				

Lab Sample ID: 380-162172-B-1 MS

Matrix: Water

Analysis Batch: 606111

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	398		ug/L		100	68 - 122
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	99		38 - 134						

Lab Sample ID: 380-162172-B-1 MSD

Matrix: Water

Analysis Batch: 606111

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 Limits
Gasoline Range Organics (C4-C13)	<10		400	409		ug/L		102	68 - 122	3	18
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	98		38 - 134								

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

Lab Sample ID: MB 570-603290/1-A

Matrix: Water

Analysis Batch: 606862

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 603290

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Diesel Range Organics (C10-C24)	<25		25	ug/L		07/28/25 09:17	08/05/25 00:25	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		07/28/25 09:17	08/05/25 00:25	1
C8-C18	<25		25	ug/L		07/28/25 09:17	08/05/25 00:25	1
Surrogate	MB	MB	Limits			Prepared	Analyzed	Dil Fac
%Recovery	Qualifier							
n-Octacosane (Surr)	106		60 - 130			07/28/25 09:17	08/05/25 00:25	1

Lab Sample ID: LCS 570-603290/2-A

Matrix: Water

Analysis Batch: 606862

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 603290

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
C10-C28	1600	1590		ug/L		100	56 - 127

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-162205-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

Lab Sample ID: LCS 570-603290/2-A
Matrix: Water
Analysis Batch: 606862

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 603290

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

Lab Sample ID: LCSD 570-603290/3-A
Matrix: Water
Analysis Batch: 606862

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 603290

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28	1600	1520		ug/L		95	56 - 127	5	23
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
n-Octacosane (Surr)	103		60 - 130						

Lab Sample ID: MRL 570-603290/4-A
Matrix: Water
Analysis Batch: 606862

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 603290

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
C10-C28			0.0200	0.0237	J	mg/L		119	50 - 150		
Surrogate	MRL %Recovery	MRL Qualifier	Limits								
n-Octacosane (Surr)	107		60 - 130								

Lab Sample ID: 380-162172-C-1-A MS
Matrix: Water
Analysis Batch: 606862

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 603290

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
C10-C28	<26		1660	1710		ug/L		103	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
n-Octacosane (Surr)	111		60 - 130								

Lab Sample ID: 380-162172-C-1-B MSD
Matrix: Water
Analysis Batch: 606862

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 603290

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28	<26		1680	1640		ug/L		98	70 - 130	4	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
n-Octacosane (Surr)	105		60 - 130								

QC Association Summary

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

Job ID: 380-162205-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

GC/MS Semi VOA

Prep Batch: 165111

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-162205-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	525.2	
380-162205-3	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	525.2	
MB 380-165111/21-A	Method Blank	Total/NA	Water	525.2	
LCS 380-165111/23-A	Lab Control Sample	Total/NA	Water	525.2	
LCSD 380-165111/24-A	Lab Control Sample Dup	Total/NA	Water	525.2	
MRL 380-165111/22-A	Lab Control Sample	Total/NA	Water	525.2	
380-162176-I-1-A MS	Matrix Spike	Total/NA	Water	525.2	
380-162185-I-1-A DU	Duplicate	Total/NA	Water	525.2	

Analysis Batch: 165233

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-162205-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	525.2	165111
380-162205-3	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	525.2	165111
MB 380-165111/21-A	Method Blank	Total/NA	Water	525.2	165111
LCS 380-165111/23-A	Lab Control Sample	Total/NA	Water	525.2	165111
LCSD 380-165111/24-A	Lab Control Sample Dup	Total/NA	Water	525.2	165111
MRL 380-165111/22-A	Lab Control Sample	Total/NA	Water	525.2	165111
380-162176-I-1-A MS	Matrix Spike	Total/NA	Water	525.2	165111
380-162185-I-1-A DU	Duplicate	Total/NA	Water	525.2	165111

Prep Batch: 601667

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-162205-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	625.1	
380-162205-3	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	625.1	
MB 570-601667/1-A	Method Blank	Total/NA	Water	625.1	
LCS 570-601667/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 570-601667/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	
380-162185-A-1-A MS	Matrix Spike	Total/NA	Water	625.1	
380-162185-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	625.1	

Analysis Batch: 604257

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-162205-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	625.1 SIM	601667
380-162205-3	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	625.1 SIM	601667
MB 570-601667/1-A	Method Blank	Total/NA	Water	625.1 SIM	601667
LCS 570-601667/2-A	Lab Control Sample	Total/NA	Water	625.1 SIM	601667
LCSD 570-601667/3-A	Lab Control Sample Dup	Total/NA	Water	625.1 SIM	601667
380-162185-A-1-A MS	Matrix Spike	Total/NA	Water	625.1 SIM	601667
380-162185-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	625.1 SIM	601667

Analysis Batch: 606410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-162205-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	625.1	601667
380-162205-3	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	625.1	601667
MB 570-601667/1-A	Method Blank	Total/NA	Water	625.1	601667

GC VOA

Analysis Batch: 606111

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-162205-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	8015B GRO LL	

Eurofins Eaton Analytical Pomona

QC Association Summary

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

Job ID: 380-162205-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

GC VOA (Continued)

Analysis Batch: 606111 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-162205-2	TB: AIEA GULCH WELLS PUMP 1 (331-201-TPC	Total/NA	Drinking Water	8015B GRO LL	
380-162205-3	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	8015B GRO LL	
380-162205-4	TB: AIEA GULCH WELLS PUMP 2 (331-202-TPC	Total/NA	Water	8015B GRO LL	
MB 570-606111/10	Method Blank	Total/NA	Water	8015B GRO LL	
LCS 570-606111/1008	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-606111/9	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	
MRL 570-606111/11	Lab Control Sample	Total/NA	Water	8015B GRO LL	
380-162172-B-1 MS	Matrix Spike	Total/NA	Water	8015B GRO LL	
380-162172-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8015B GRO LL	

GC Semi VOA

Prep Batch: 603290

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-162205-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	3510C	
380-162205-3	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	3510C	
MB 570-603290/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-603290/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-603290/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-603290/4-A	Lab Control Sample	Total/NA	Water	3510C	
380-162172-C-1-A MS	Matrix Spike	Total/NA	Water	3510C	
380-162172-C-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

Analysis Batch: 606862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-162205-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	8015B	603290
380-162205-3	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	8015B	603290
MB 570-603290/1-A	Method Blank	Total/NA	Water	8015B	603290
LCS 570-603290/2-A	Lab Control Sample	Total/NA	Water	8015B	603290
LCSD 570-603290/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	603290
MRL 570-603290/4-A	Lab Control Sample	Total/NA	Water	8015B	603290
380-162172-C-1-A MS	Matrix Spike	Total/NA	Water	8015B	603290
380-162172-C-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	8015B	603290

Lab Chronicle

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

Job ID: 380-162205-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

Lab Sample ID: 380-162205-1

Date Collected: 07/21/25 10:28

Matrix: Drinking Water

Date Received: 07/23/25 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			165111	IQ42	EA POM	07/25/25 12:56
Total/NA	Analysis	525.2		1	165233	Q8LA	EA POM	07/27/25 16:10
Total/NA	Prep	625.1			601667	H1SH	EET CAL 4	07/25/25 05:11
Total/NA	Analysis	625.1		1	606410	AX7Z	EET CAL 4	08/04/25 17:05
Total/NA	Prep	625.1			601667	H1SH	EET CAL 4	07/25/25 05:11
Total/NA	Analysis	625.1 SIM		1	604257	J7WE	EET CAL 4	07/30/25 06:26
Total/NA	Analysis	8015B GRO LL		1	606111	W4LC	EET CAL 4	08/02/25 16:39
Total/NA	Prep	3510C			603290	TVD6	EET CAL 4	07/28/25 09:17
Total/NA	Analysis	8015B		1	606862	NR	EET CAL 4	08/05/25 04:47

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

Lab Sample ID: 380-162205-2

Date Collected: 07/21/25 10:28

Matrix: Drinking Water

Date Received: 07/23/25 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	606111	W4LC	EET CAL 4	08/02/25 23:18

**Client Sample ID: AIEA GULCH WELLS PUMP 2
(331-202-TP072)**

Lab Sample ID: 380-162205-3

Date Collected: 07/21/25 10:47

Matrix: Drinking Water

Date Received: 07/23/25 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			165111	IQ42	EA POM	07/25/25 12:56
Total/NA	Analysis	525.2		1	165233	Q8LA	EA POM	07/27/25 16:31
Total/NA	Prep	625.1			601667	H1SH	EET CAL 4	07/25/25 05:11
Total/NA	Analysis	625.1		1	606410	AX7Z	EET CAL 4	08/04/25 17:29
Total/NA	Prep	625.1			601667	H1SH	EET CAL 4	07/25/25 05:11
Total/NA	Analysis	625.1 SIM		1	604257	J7WE	EET CAL 4	07/30/25 06:48
Total/NA	Analysis	8015B GRO LL		1	606111	W4LC	EET CAL 4	08/02/25 16:17
Total/NA	Prep	3510C			603290	TVD6	EET CAL 4	07/28/25 09:17
Total/NA	Analysis	8015B		1	606862	NR	EET CAL 4	08/05/25 05:09

**Client Sample ID: TB: AIEA GULCH WELLS PUMP 2
(331-202-TP072)**

Lab Sample ID: 380-162205-4

Date Collected: 07/21/25 10:47

Matrix: Water

Date Received: 07/23/25 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	606111	W4LC	EET CAL 4	08/02/25 23:40

Eurofins Eaton Analytical Pomona

Lab Chronicle

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

Job ID: 380-162205-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

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Accreditation/Certification Summary

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

Job ID: 380-162205-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

Laboratory: Eurofins Eaton Analytical Pomona

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

Authority	Program	Identification Number	Expiration Date
Hawaii	State	CA00006	01-31-26
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
525.2	525.2	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
California	Los Angeles County Sanitation Districts	9257304	07-31-26
California	SCAQMD LAP	17LA0919	11-30-25
California	State	3082	07-31-26

Eurofins Eaton Analytical Pomona

Accreditation/Certification Summary

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

Job ID: 380-162205-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

Laboratory: Eurofins Calscience (Continued)

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

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

Method Summary

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

Job ID: 380-162205-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.
EPA = US Environmental Protection Agency
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

Sample Summary

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

Job ID: 380-162205-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	PWSID Number
380-162205-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Drinking Water	07/21/25 10:28	07/23/25 09:30	HI0000331
380-162205-2	TB: AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Drinking Water	07/21/25 10:28	07/23/25 09:30	
380-162205-3	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Drinking Water	07/21/25 10:47	07/23/25 09:30	HI0000331
380-162205-4	TB: AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Water	07/21/25 10:47	07/23/25 09:30	

Environment Testing

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

Chain of Custody Record

 eurofins

Loc: 380
162205

[illegible]

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-162205-1

SDG Number: Weekly: Aiea Gulch Wells Pump 1/Pump 2

Login Number: 162205

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: 380-162205-1

SDG Number: Weekly: Aiea Gulch Wells Pump 1/Pump 2

Login Number: 162205

List Number: 2

Creator: Khana, Piyush

List Source: Eurofins Calscience

List Creation: 07/23/25 06:37 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	