

ANALYTICAL REPORT

PREPARED FOR

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Honolulu, Hawaii 96843

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JOB DESCRIPTION

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

JOB NUMBER

380-163416-1

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



Authorized for release by
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Definitions/Glossary

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

Job ID: 380-163416-1
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.

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: 380-163416-1

Job ID: 380-163416-1

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Job Narrative 380-163416-1

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 7/30/2025 10:13 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.2°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: 380-163416-1
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: 380-163416-1

☐ No Detections.

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

Lab Sample ID: 380-163416-2

☐ No Detections.

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

Lab Sample ID: 380-163416-3

☐ No Detections.

Client Sample ID: TB:AIEA GULCH WELLS P2 (331-202-TP072)

Lab Sample ID: 380-163416-4

☐ 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: 380-163416-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

Lab Sample ID: 380-163416-1

Date Collected: 07/28/25 10:05

Matrix: Drinking Water

Date Received: 07/30/25 10:13

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.097		0.097	ug/L		08/01/25 11:31	08/03/25 13:06	1
2,4'-DDD	<0.097		0.097	ug/L		08/01/25 11:31	08/03/25 13:06	1
2,4'-DDE	<0.097		0.097	ug/L		08/01/25 11:31	08/03/25 13:06	1
2,4'-DDT	<0.097		0.097	ug/L		08/01/25 11:31	08/03/25 13:06	1
2,4-Dinitrotoluene	<0.097		0.097	ug/L		08/01/25 11:31	08/03/25 13:06	1
2,6-Dinitrotoluene	<0.097		0.097	ug/L		08/01/25 11:31	08/03/25 13:06	1
2-Methylnaphthalene	<0.097		0.097	ug/L		08/01/25 11:31	08/03/25 13:06	1
4,4'-DDD	<0.097		0.097	ug/L		08/01/25 11:31	08/03/25 13:06	1
4,4'-DDE	<0.097		0.097	ug/L		08/01/25 11:31	08/03/25 13:06	1
4,4'-DDT	<0.097		0.097	ug/L		08/01/25 11:31	08/03/25 13:06	1
Acenaphthene	<0.097		0.097	ug/L		08/01/25 11:31	08/03/25 13:06	1
Acenaphthylene	<0.097		0.097	ug/L		08/01/25 11:31	08/03/25 13:06	1
Acetochlor	<0.097		0.097	ug/L		08/01/25 11:31	08/03/25 13:06	1
Alachlor	<0.049		0.049	ug/L		08/01/25 11:31	08/03/25 13:06	1
alpha-BHC	<0.097		0.097	ug/L		08/01/25 11:31	08/03/25 13:06	1
alpha-Chlordane	<0.049		0.049	ug/L		08/01/25 11:31	08/03/25 13:06	1
Anthracene	<0.019		0.019	ug/L		08/01/25 11:31	08/03/25 13:06	1
Atrazine	<0.049		0.049	ug/L		08/01/25 11:31	08/03/25 13:06	1
Benz(a)anthracene	<0.049		0.049	ug/L		08/01/25 11:31	08/03/25 13:06	1
Benzo[a]pyrene	<0.019		0.019	ug/L		08/01/25 11:31	08/03/25 13:06	1
Benzo[b]fluoranthene	<0.019		0.019	ug/L		08/01/25 11:31	08/03/25 13:06	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		08/01/25 11:31	08/03/25 13:06	1
Benzo[k]fluoranthene	<0.019		0.019	ug/L		08/01/25 11:31	08/03/25 13:06	1
beta-BHC	<0.097		0.097	ug/L		08/01/25 11:31	08/03/25 13:06	1
Bis(2-ethylhexyl) phthalate	<0.58		0.58	ug/L		08/01/25 11:31	08/03/25 13:06	1
Bromacil	<0.097		0.097	ug/L		08/01/25 11:31	08/03/25 13:06	1
Butachlor	<0.049		0.049	ug/L		08/01/25 11:31	08/03/25 13:06	1
Butylbenzylphthalate	<0.49		0.49	ug/L		08/01/25 11:31	08/03/25 13:06	1
Chlorobenzilate	<0.097		0.097	ug/L		08/01/25 11:31	08/03/25 13:06	1
Chloroneb	<0.097		0.097	ug/L		08/01/25 11:31	08/03/25 13:06	1
Chlorothalonil (Draconil, Bravo)	<0.097		0.097	ug/L		08/01/25 11:31	08/03/25 13:06	1
Chlorpyrifos	<0.049		0.049	ug/L		08/01/25 11:31	08/03/25 13:06	1
Chrysene	<0.019		0.019	ug/L		08/01/25 11:31	08/03/25 13:06	1
delta-BHC	<0.097		0.097	ug/L		08/01/25 11:31	08/03/25 13:06	1
Di(2-ethylhexyl)adipate	<0.58		0.58	ug/L		08/01/25 11:31	08/03/25 13:06	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		08/01/25 11:31	08/03/25 13:06	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		08/01/25 11:31	08/03/25 13:06	1
Dieldrin	<0.0097		0.0097	ug/L		08/01/25 11:31	08/03/25 13:06	1
Diethylphthalate	<0.49		0.49	ug/L		08/01/25 11:31	08/03/25 13:06	1
Dimethylphthalate	<0.49		0.49	ug/L		08/01/25 11:31	08/03/25 13:06	1
Di-n-butyl phthalate	<0.97		0.97	ug/L		08/01/25 11:31	08/03/25 13:06	1
Di-n-octyl phthalate	<0.097		0.097	ug/L		08/01/25 11:31	08/03/25 13:06	1
Endosulfan I (Alpha)	<0.097		0.097	ug/L		08/01/25 11:31	08/03/25 13:06	1
Endosulfan II (Beta)	<0.097		0.097	ug/L		08/01/25 11:31	08/03/25 13:06	1
Endosulfan sulfate	<0.097		0.097	ug/L		08/01/25 11:31	08/03/25 13:06	1
Endrin	<0.0097		0.0097	ug/L		08/01/25 11:31	08/03/25 13:06	1
Endrin aldehyde	<0.097		0.097	ug/L		08/01/25 11:31	08/03/25 13:06	1
EPTC	<0.097		0.097	ug/L		08/01/25 11:31	08/03/25 13:06	1

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Client Sample Results

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

Job ID: 380-163416-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

Lab Sample ID: 380-163416-1

Date Collected: 07/28/25 10:05

Matrix: Drinking Water

Date Received: 07/30/25 10:13

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.097		0.097	ug/L		08/01/25 11:31	08/03/25 13:06	1
Fluorene	<0.049		0.049	ug/L		08/01/25 11:31	08/03/25 13:06	1
gamma-Chlordane	<0.049		0.049	ug/L		08/01/25 11:31	08/03/25 13:06	1
Heptachlor	<0.0097		0.0097	ug/L		08/01/25 11:31	08/03/25 13:06	1
Heptachlor epoxide (isomer B)	<0.0097		0.0097	ug/L		08/01/25 11:31	08/03/25 13:06	1
Hexachlorobenzene	<0.049		0.049	ug/L		08/01/25 11:31	08/03/25 13:06	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		08/01/25 11:31	08/03/25 13:06	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		08/01/25 11:31	08/03/25 13:06	1
Isophorone	<0.097		0.097	ug/L		08/01/25 11:31	08/03/25 13:06	1
Lindane	<0.0097		0.0097	ug/L		08/01/25 11:31	08/03/25 13:06	1
Malathion	<0.097		0.097	ug/L		08/01/25 11:31	08/03/25 13:06	1
Methoxychlor	<0.049		0.049	ug/L		08/01/25 11:31	08/03/25 13:06	1
Metolachlor	<0.049		0.049	ug/L		08/01/25 11:31	08/03/25 13:06	1
Molinate	<0.097		0.097	ug/L		08/01/25 11:31	08/03/25 13:06	1
Naphthalene	<0.097		0.097	ug/L		08/01/25 11:31	08/03/25 13:06	1
Parathion	<0.097		0.097	ug/L		08/01/25 11:31	08/03/25 13:06	1
Pendimethalin (Penoxaline)	<0.097		0.097	ug/L		08/01/25 11:31	08/03/25 13:06	1
Phenanthrene	<0.039		0.039	ug/L		08/01/25 11:31	08/03/25 13:06	1
Propachlor	<0.049		0.049	ug/L		08/01/25 11:31	08/03/25 13:06	1
Pyrene	<0.049		0.049	ug/L		08/01/25 11:31	08/03/25 13:06	1
Simazine	<0.049		0.049	ug/L		08/01/25 11:31	08/03/25 13:06	1
Terbacil	<0.097		0.097	ug/L		08/01/25 11:31	08/03/25 13:06	1
Terbutylazine	<0.097		0.097	ug/L		08/01/25 11:31	08/03/25 13:06	1
Thiobencarb	<0.097		0.097	ug/L		08/01/25 11:31	08/03/25 13:06	1
Total Permethrin (mixed isomers)	<0.19		0.19	ug/L		08/01/25 11:31	08/03/25 13:06	1
trans-Nonachlor	<0.049		0.049	ug/L		08/01/25 11:31	08/03/25 13:06	1
Trifluralin	<0.097		0.097	ug/L		08/01/25 11:31	08/03/25 13:06	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	08/01/25 11:31	08/03/25 13:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	94		70 - 130	08/01/25 11:31	08/03/25 13:06	1
Perylene-d12	88		70 - 130	08/01/25 11:31	08/03/25 13:06	1
Triphenylphosphate	114		70 - 130	08/01/25 11:31	08/03/25 13:06	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.19		0.19	ug/L		08/01/25 13:59	08/13/25 10:36	1
2-Methylnaphthalene	<0.19		0.19	ug/L		08/01/25 13:59	08/13/25 10:36	1
Acenaphthene	<0.19		0.19	ug/L		08/01/25 13:59	08/13/25 10:36	1
Acenaphthylene	<0.19		0.19	ug/L		08/01/25 13:59	08/13/25 10:36	1
Anthracene	<0.19		0.19	ug/L		08/01/25 13:59	08/13/25 10:36	1
Benzo[a]anthracene	<0.19		0.19	ug/L		08/01/25 13:59	08/13/25 10:36	1
Benzo[a]pyrene	<0.19		0.19	ug/L		08/01/25 13:59	08/13/25 10:36	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		08/01/25 13:59	08/13/25 10:36	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		08/01/25 13:59	08/13/25 10:36	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		08/01/25 13:59	08/13/25 10:36	1
Chrysene	<0.19		0.19	ug/L		08/01/25 13:59	08/13/25 10:36	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-163416-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

Lab Sample ID: 380-163416-1

Date Collected: 07/28/25 10:05

Matrix: Drinking Water

Date Received: 07/30/25 10:13

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	<0.19		0.19	ug/L		08/01/25 13:59	08/13/25 10:36	1
Fluoranthene	<0.19		0.19	ug/L		08/01/25 13:59	08/13/25 10:36	1
Fluorene	<0.19		0.19	ug/L		08/01/25 13:59	08/13/25 10:36	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		08/01/25 13:59	08/13/25 10:36	1
Naphthalene	<0.19		0.19	ug/L		08/01/25 13:59	08/13/25 10:36	1
Phenanthrene	<0.19		0.19	ug/L		08/01/25 13:59	08/13/25 10:36	1
Pyrene	<0.19		0.19	ug/L		08/01/25 13:59	08/13/25 10:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	74		28 - 127	08/01/25 13:59	08/13/25 10:36	1
2-Fluorobiphenyl (Surr)	59		31 - 120	08/01/25 13:59	08/13/25 10:36	1
2-Fluorophenol (Surr)	35		17 - 120	08/01/25 13:59	08/13/25 10:36	1
Nitrobenzene-d5 (Surr)	59		27 - 120	08/01/25 13:59	08/13/25 10:36	1
Phenol-d6 (Surr)	24		10 - 120	08/01/25 13:59	08/13/25 10:36	1
p-Terphenyl-d14 (Surr)	84		45 - 120	08/01/25 13:59	08/13/25 10:36	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
2-Pentenal, (E)-	14	T J N	ug/L		2.42	1576-87-0	08/01/25 13:59	08/14/25 12:44	1
2-Pentene, 2,3,4-trimethyl-	8.4	T J N	ug/L		2.63	565-77-5	08/01/25 13:59	08/14/25 12:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	54		33 - 139	08/01/25 13:59	08/14/25 12:44	1
2-Fluorobiphenyl (Surr)	61		33 - 126	08/01/25 13:59	08/14/25 12:44	1
2-Fluorophenol (Surr)	27		12 - 120	08/01/25 13:59	08/14/25 12:44	1
Nitrobenzene-d5 (Surr)	56		36 - 120	08/01/25 13:59	08/14/25 12:44	1
Phenol-d6 (Surr)	17		10 - 120	08/01/25 13:59	08/14/25 12:44	1
p-Terphenyl-d14 (Surr)	80		47 - 131	08/01/25 13:59	08/14/25 12:44	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 22:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		38 - 134		08/02/25 22:12	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)	<27		27	ug/L		08/04/25 10:22	08/09/25 11:56	1
Motor Oil Range Organics [C24-C36]	<27		27	ug/L		08/04/25 10:22	08/09/25 11:56	1
C8-C18	<27		27	ug/L		08/04/25 10:22	08/09/25 11:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	109		60 - 130	08/04/25 10:22	08/09/25 11:56	1

Client Sample Results

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

Job ID: 380-163416-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

Lab Sample ID: 380-163416-2

Date Collected: 07/28/25 10:24

Matrix: Drinking Water

Date Received: 07/30/25 10:13

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.098		0.098	ug/L		08/01/25 11:31	08/03/25 13:26	1
2,4'-DDD	<0.098		0.098	ug/L		08/01/25 11:31	08/03/25 13:26	1
2,4'-DDE	<0.098		0.098	ug/L		08/01/25 11:31	08/03/25 13:26	1
2,4'-DDT	<0.098		0.098	ug/L		08/01/25 11:31	08/03/25 13:26	1
2,4-Dinitrotoluene	<0.098		0.098	ug/L		08/01/25 11:31	08/03/25 13:26	1
2,6-Dinitrotoluene	<0.098		0.098	ug/L		08/01/25 11:31	08/03/25 13:26	1
2-Methylnaphthalene	<0.098		0.098	ug/L		08/01/25 11:31	08/03/25 13:26	1
4,4'-DDD	<0.098		0.098	ug/L		08/01/25 11:31	08/03/25 13:26	1
4,4'-DDE	<0.098		0.098	ug/L		08/01/25 11:31	08/03/25 13:26	1
4,4'-DDT	<0.098		0.098	ug/L		08/01/25 11:31	08/03/25 13:26	1
Acenaphthene	<0.098		0.098	ug/L		08/01/25 11:31	08/03/25 13:26	1
Acenaphthylene	<0.098		0.098	ug/L		08/01/25 11:31	08/03/25 13:26	1
Acetochlor	<0.098		0.098	ug/L		08/01/25 11:31	08/03/25 13:26	1
Alachlor	<0.049		0.049	ug/L		08/01/25 11:31	08/03/25 13:26	1
alpha-BHC	<0.098		0.098	ug/L		08/01/25 11:31	08/03/25 13:26	1
alpha-Chlordane	<0.049		0.049	ug/L		08/01/25 11:31	08/03/25 13:26	1
Anthracene	<0.020		0.020	ug/L		08/01/25 11:31	08/03/25 13:26	1
Atrazine	<0.049		0.049	ug/L		08/01/25 11:31	08/03/25 13:26	1
Benz(a)anthracene	<0.049		0.049	ug/L		08/01/25 11:31	08/03/25 13:26	1
Benzo[a]pyrene	<0.020		0.020	ug/L		08/01/25 11:31	08/03/25 13:26	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		08/01/25 11:31	08/03/25 13:26	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		08/01/25 11:31	08/03/25 13:26	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		08/01/25 11:31	08/03/25 13:26	1
beta-BHC	<0.098		0.098	ug/L		08/01/25 11:31	08/03/25 13:26	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		08/01/25 11:31	08/03/25 13:26	1
Bromacil	<0.098		0.098	ug/L		08/01/25 11:31	08/03/25 13:26	1
Butachlor	<0.049		0.049	ug/L		08/01/25 11:31	08/03/25 13:26	1
Butylbenzylphthalate	<0.49		0.49	ug/L		08/01/25 11:31	08/03/25 13:26	1
Chlorobenzilate	<0.098		0.098	ug/L		08/01/25 11:31	08/03/25 13:26	1
Chloroneb	<0.098		0.098	ug/L		08/01/25 11:31	08/03/25 13:26	1
Chlorothalonil (Draconil, Bravo)	<0.098		0.098	ug/L		08/01/25 11:31	08/03/25 13:26	1
Chlorpyrifos	<0.049		0.049	ug/L		08/01/25 11:31	08/03/25 13:26	1
Chrysene	<0.020		0.020	ug/L		08/01/25 11:31	08/03/25 13:26	1
delta-BHC	<0.098		0.098	ug/L		08/01/25 11:31	08/03/25 13:26	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		08/01/25 11:31	08/03/25 13:26	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		08/01/25 11:31	08/03/25 13:26	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		08/01/25 11:31	08/03/25 13:26	1
Dieldrin	<0.0098		0.0098	ug/L		08/01/25 11:31	08/03/25 13:26	1
Diethylphthalate	<0.49		0.49	ug/L		08/01/25 11:31	08/03/25 13:26	1
Dimethylphthalate	<0.49		0.49	ug/L		08/01/25 11:31	08/03/25 13:26	1
Di-n-butyl phthalate	<0.98		0.98	ug/L		08/01/25 11:31	08/03/25 13:26	1
Di-n-octyl phthalate	<0.098		0.098	ug/L		08/01/25 11:31	08/03/25 13:26	1
Endosulfan I (Alpha)	<0.098		0.098	ug/L		08/01/25 11:31	08/03/25 13:26	1
Endosulfan II (Beta)	<0.098		0.098	ug/L		08/01/25 11:31	08/03/25 13:26	1
Endosulfan sulfate	<0.098		0.098	ug/L		08/01/25 11:31	08/03/25 13:26	1
Endrin	<0.0098		0.0098	ug/L		08/01/25 11:31	08/03/25 13:26	1
Endrin aldehyde	<0.098		0.098	ug/L		08/01/25 11:31	08/03/25 13:26	1
EPTC	<0.098		0.098	ug/L		08/01/25 11:31	08/03/25 13:26	1

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Client Sample Results

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

Job ID: 380-163416-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

Lab Sample ID: 380-163416-2

Date Collected: 07/28/25 10:24

Matrix: Drinking Water

Date Received: 07/30/25 10:13

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.098		0.098	ug/L		08/01/25 11:31	08/03/25 13:26	1
Fluorene	<0.049		0.049	ug/L		08/01/25 11:31	08/03/25 13:26	1
gamma-Chlordane	<0.049		0.049	ug/L		08/01/25 11:31	08/03/25 13:26	1
Heptachlor	<0.0098		0.0098	ug/L		08/01/25 11:31	08/03/25 13:26	1
Heptachlor epoxide (isomer B)	<0.0098		0.0098	ug/L		08/01/25 11:31	08/03/25 13:26	1
Hexachlorobenzene	<0.049		0.049	ug/L		08/01/25 11:31	08/03/25 13:26	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		08/01/25 11:31	08/03/25 13:26	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		08/01/25 11:31	08/03/25 13:26	1
Isophorone	<0.098		0.098	ug/L		08/01/25 11:31	08/03/25 13:26	1
Lindane	<0.0098		0.0098	ug/L		08/01/25 11:31	08/03/25 13:26	1
Malathion	<0.098		0.098	ug/L		08/01/25 11:31	08/03/25 13:26	1
Methoxychlor	<0.049		0.049	ug/L		08/01/25 11:31	08/03/25 13:26	1
Metolachlor	<0.049		0.049	ug/L		08/01/25 11:31	08/03/25 13:26	1
Molinate	<0.098		0.098	ug/L		08/01/25 11:31	08/03/25 13:26	1
Naphthalene	<0.098		0.098	ug/L		08/01/25 11:31	08/03/25 13:26	1
Parathion	<0.098		0.098	ug/L		08/01/25 11:31	08/03/25 13:26	1
Pendimethalin (Penoxaline)	<0.098		0.098	ug/L		08/01/25 11:31	08/03/25 13:26	1
Phenanthrene	<0.039		0.039	ug/L		08/01/25 11:31	08/03/25 13:26	1
Propachlor	<0.049		0.049	ug/L		08/01/25 11:31	08/03/25 13:26	1
Pyrene	<0.049		0.049	ug/L		08/01/25 11:31	08/03/25 13:26	1
Simazine	<0.049		0.049	ug/L		08/01/25 11:31	08/03/25 13:26	1
Terbacil	<0.098		0.098	ug/L		08/01/25 11:31	08/03/25 13:26	1
Terbutylazine	<0.098		0.098	ug/L		08/01/25 11:31	08/03/25 13:26	1
Thiobencarb	<0.098		0.098	ug/L		08/01/25 11:31	08/03/25 13:26	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		08/01/25 11:31	08/03/25 13:26	1
trans-Nonachlor	<0.049		0.049	ug/L		08/01/25 11:31	08/03/25 13:26	1
Trifluralin	<0.098		0.098	ug/L		08/01/25 11:31	08/03/25 13:26	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	08/01/25 11:31	08/03/25 13:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	94		70 - 130	08/01/25 11:31	08/03/25 13:26	1
Perylene-d12	88		70 - 130	08/01/25 11:31	08/03/25 13:26	1
Triphenylphosphate	113		70 - 130	08/01/25 11:31	08/03/25 13:26	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.19		0.19	ug/L		08/01/25 13:59	08/13/25 10:58	1
2-Methylnaphthalene	<0.19		0.19	ug/L		08/01/25 13:59	08/13/25 10:58	1
Acenaphthene	<0.19		0.19	ug/L		08/01/25 13:59	08/13/25 10:58	1
Acenaphthylene	<0.19		0.19	ug/L		08/01/25 13:59	08/13/25 10:58	1
Anthracene	<0.19		0.19	ug/L		08/01/25 13:59	08/13/25 10:58	1
Benzo[a]anthracene	<0.19		0.19	ug/L		08/01/25 13:59	08/13/25 10:58	1
Benzo[a]pyrene	<0.19		0.19	ug/L		08/01/25 13:59	08/13/25 10:58	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		08/01/25 13:59	08/13/25 10:58	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		08/01/25 13:59	08/13/25 10:58	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		08/01/25 13:59	08/13/25 10:58	1
Chrysene	<0.19		0.19	ug/L		08/01/25 13:59	08/13/25 10:58	1

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Client Sample Results

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

Job ID: 380-163416-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

Lab Sample ID: 380-163416-2

Date Collected: 07/28/25 10:24

Matrix: Drinking Water

Date Received: 07/30/25 10:13

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	<0.19		0.19	ug/L		08/01/25 13:59	08/13/25 10:58	1
Fluoranthene	<0.19		0.19	ug/L		08/01/25 13:59	08/13/25 10:58	1
Fluorene	<0.19		0.19	ug/L		08/01/25 13:59	08/13/25 10:58	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		08/01/25 13:59	08/13/25 10:58	1
Naphthalene	<0.19		0.19	ug/L		08/01/25 13:59	08/13/25 10:58	1
Phenanthrene	<0.19		0.19	ug/L		08/01/25 13:59	08/13/25 10:58	1
Pyrene	<0.19		0.19	ug/L		08/01/25 13:59	08/13/25 10:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	65		28 - 127	08/01/25 13:59	08/13/25 10:58	1
2-Fluorobiphenyl (Surr)	54		31 - 120	08/01/25 13:59	08/13/25 10:58	1
2-Fluorophenol (Surr)	36		17 - 120	08/01/25 13:59	08/13/25 10:58	1
Nitrobenzene-d5 (Surr)	57		27 - 120	08/01/25 13:59	08/13/25 10:58	1
Phenol-d6 (Surr)	24		10 - 120	08/01/25 13:59	08/13/25 10:58	1
p-Terphenyl-d14 (Surr)	74		45 - 120	08/01/25 13:59	08/13/25 10:58	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
Cyclopentane, 1,2,3,4,5-pentamethyl-	18	T J N	ug/L		2.42	1000152-79-7	08/01/25 13:59	08/14/25 13:08	1
2-Hexene, 3,4,4-trimethyl-	11	T J N	ug/L		2.63	53941-19-8	08/01/25 13:59	08/14/25 13:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	42		33 - 139	08/01/25 13:59	08/14/25 13:08	1
2-Fluorobiphenyl (Surr)	57		33 - 126	08/01/25 13:59	08/14/25 13:08	1
2-Fluorophenol (Surr)	28		12 - 120	08/01/25 13:59	08/14/25 13:08	1
Nitrobenzene-d5 (Surr)	54		36 - 120	08/01/25 13:59	08/14/25 13:08	1
Phenol-d6 (Surr)	16		10 - 120	08/01/25 13:59	08/14/25 13:08	1
p-Terphenyl-d14 (Surr)	70		47 - 131	08/01/25 13:59	08/14/25 13:08	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 21:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		38 - 134		08/02/25 21:50	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<26		26	ug/L		08/04/25 10:22	08/09/25 12:18	1
Motor Oil Range Organics [C24-C36]	<26		26	ug/L		08/04/25 10:22	08/09/25 12:18	1
C8-C18	<26		26	ug/L		08/04/25 10:22	08/09/25 12:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	112		60 - 130	08/04/25 10:22	08/09/25 12:18	1

Client Sample Results

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

Job ID: 380-163416-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

Lab Sample ID: 380-163416-3

Date Collected: 07/28/25 10:05

Matrix: Water

Date Received: 07/30/25 10:13

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			08/03/25 02:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		38 - 134				08/03/25 02:13	1

Client Sample ID: TB:AIEA GULCH WELLS P2 (331-202-TP072)

Lab Sample ID: 380-163416-4

Date Collected: 07/28/25 10:24

Matrix: Water

Date Received: 07/30/25 10:13

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			08/03/25 02:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		38 - 134				08/03/25 02:35	1

Action Limit Summary

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

Job ID: 380-163416-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

Client Sample ID: AIEA GULCH WELLS PUMP 1

Lab Sample ID: 380-163416-1

(331-201-TP071)

PWSID Number: HI0000331

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	<0.019		ug/L	0.2	0.019	525.2	Total/NA
Bis(2-ethylhexyl) phthalate	<0.58		ug/L	6	0.58	525.2	Total/NA
Di(2-ethylhexyl)adipate	<0.58		ug/L	400	0.58	525.2	Total/NA
Endrin	<0.0097		ug/L	2	0.0097	525.2	Total/NA
Heptachlor	<0.0097		ug/L	0.4	0.0097	525.2	Total/NA
Heptachlor epoxide (isomer B)	<0.0097		ug/L	0.2	0.0097	525.2	Total/NA
Hexachlorobenzene	<0.049		ug/L	1	0.049	525.2	Total/NA
Hexachlorocyclopentadiene	<0.049		ug/L	50	0.049	525.2	Total/NA
Lindane	<0.0097		ug/L	0.2	0.0097	525.2	Total/NA
Methoxychlor	<0.049		ug/L	40	0.049	525.2	Total/NA
Simazine	<0.049		ug/L	4	0.049	525.2	Total/NA
Benzo[a]pyrene	<0.19		ug/L	0.2	0.19	625.1 SIM	Total/NA

Client Sample ID: AIEA GULCH WELLS PUMP 2

Lab Sample ID: 380-163416-2

(331-202-TP072)

PWSID Number: HI0000331

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	<0.0098		ug/L	2	0.0098	525.2	Total/NA
Heptachlor	<0.0098		ug/L	0.4	0.0098	525.2	Total/NA
Heptachlor epoxide (isomer B)	<0.0098		ug/L	0.2	0.0098	525.2	Total/NA
Hexachlorobenzene	<0.049		ug/L	1	0.049	525.2	Total/NA
Hexachlorocyclopentadiene	<0.049		ug/L	50	0.049	525.2	Total/NA
Lindane	<0.0098		ug/L	0.2	0.0098	525.2	Total/NA
Methoxychlor	<0.049		ug/L	40	0.049	525.2	Total/NA
Simazine	<0.049		ug/L	4	0.049	525.2	Total/NA
Benzo[a]pyrene	<0.19		ug/L	0.2	0.19	625.1 SIM	Total/NA

Surrogate Summary

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

Job ID: 380-163416-1
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)				
380-163416-1	AIEA GULCH WELLS PUMP 1 (331	94	88	114				
380-163416-2	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	94	88	113				
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)				
380-163413-B-1-A MS	Matrix Spike	92	93	113				
380-163413-B-3-A DU	Duplicate	91	90	114				
LCS 380-166346/23-A	Lab Control Sample	91	94	111				
LCS 380-166346/24-A	Lab Control Sample Dup	90	95	112				
MB 380-166346/21-A	Method Blank	91	86	109				
MRL 380-166346/22-A	Lab Control Sample	92	86	105				
Surrogate Legend								
2NMX = 2-Nitro-m-xylene								
PRY = Perylene-d12								
TPP = Triphenylphosphate								

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

Matrix: Drinking Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)							
		TBP (33-139)	FBP (33-126)	2FP (12-120)	NBZ (36-120)	PHL6 (10-120)	TPHd14 (47-131)		
380-163416-1	AIEA GULCH WELLS PUMP 1 (331	54	61	27	56	17	80		
380-163416-2	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	42	57	28	54	16	70		
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: 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)		
380-163416-1	AIEA GULCH WELLS PUMP 1 (331	74	59	35	59	24	84		

Eurofins Eaton Analytical Pomona

Surrogate Summary

Client: City & County of Honolulu

Job ID: 380-163416-1

Project/Site: RED-HILL

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

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

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)
380-163416-2	AIEA GULCH WELLS PUMP 2 (331	65	54	36	57	24	74
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)
380-163427-A-1-B MS	Matrix Spike	70	64	44	58	31	70
380-163427-A-1-C MSD	Matrix Spike Duplicate	84	75	54	67	36	81
LCS 570-605781/2-A	Lab Control Sample	85	76	53	69	34	82
LCSD 570-605781/3-A	Lab Control Sample Dup	78	72	51	66	34	75
MB 570-605781/1-A	Method Blank	81	68	48	76	31	79
Surrogate Legend							
TBP = 2,4,6-Tribromophenol (Surr)							
FBP = 2-Fluorobiphenyl (Surr)							
2FP = 2-Fluorophenol (Surr)							
NBZ = Nitrobenzene-d5 (Surr)							
PHL6 = Phenol-d6 (Surr)							
TPHD14 = p-Terphenyl-d14 (Surr)							

Method: 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)					
380-163416-1	AIEA GULCH WELLS PUMP 1 (331	79					
380-163416-2	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	80					
Surrogate Legend							
BFB = 4-Bromofluorobenzene (Surr)							

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		BFB1 (38-134)					
380-162172-B-1 MS	Matrix Spike	99					
380-162172-B-1 MSD	Matrix Spike Duplicate	98					
380-163416-3	TB:AIEA GULCH WELLS P1 (331-201-TP071)	83					

Surrogate Summary

Client: City & County of Honolulu

Job ID: 380-163416-1

Project/Site: RED-HILL

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

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	BFB1 (38-134)
380-163416-4	TB:AIEA GULCH WELLS P2 (331-2	82
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)
380-163416-1	AIEA GULCH WELLS PUMP 1 (331	109
380-163416-2	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	112
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)
380-163427-B-1-A MS	Matrix Spike	108
380-163427-B-1-B MSD	Matrix Spike Duplicate	104
LCS 570-606522/2-A	Lab Control Sample	98
LCSD 570-606522/3-A	Lab Control Sample Dup	111
MB 570-606522/1-A	Method Blank	99
MRL 570-606522/4-A	Lab Control Sample	111
Surrogate Legend		
OTCSN = n-Octacosane (Surr)		

QC Sample Results

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

Job ID: 380-163416-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

Lab Sample ID: MB 380-166346/21-A
Matrix: Water
Analysis Batch: 166488

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 166346

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.099		0.099	ug/L		08/01/25 11:31	08/03/25 10:42	1
2,4'-DDD	<0.099		0.099	ug/L		08/01/25 11:31	08/03/25 10:42	1
2,4'-DDE	<0.099		0.099	ug/L		08/01/25 11:31	08/03/25 10:42	1
2,4'-DDT	<0.099		0.099	ug/L		08/01/25 11:31	08/03/25 10:42	1
2,4-Dinitrotoluene	<0.099		0.099	ug/L		08/01/25 11:31	08/03/25 10:42	1
2,6-Dinitrotoluene	<0.099		0.099	ug/L		08/01/25 11:31	08/03/25 10:42	1
2-Methylnaphthalene	<0.099		0.099	ug/L		08/01/25 11:31	08/03/25 10:42	1
4,4'-DDD	<0.099		0.099	ug/L		08/01/25 11:31	08/03/25 10:42	1
4,4'-DDE	<0.099		0.099	ug/L		08/01/25 11:31	08/03/25 10:42	1
4,4'-DDT	<0.099		0.099	ug/L		08/01/25 11:31	08/03/25 10:42	1
Acenaphthene	<0.099		0.099	ug/L		08/01/25 11:31	08/03/25 10:42	1
Acenaphthylene	<0.099		0.099	ug/L		08/01/25 11:31	08/03/25 10:42	1
Acetochlor	<0.099		0.099	ug/L		08/01/25 11:31	08/03/25 10:42	1
Alachlor	<0.050		0.050	ug/L		08/01/25 11:31	08/03/25 10:42	1
alpha-BHC	<0.099		0.099	ug/L		08/01/25 11:31	08/03/25 10:42	1
alpha-Chlordane	<0.050		0.050	ug/L		08/01/25 11:31	08/03/25 10:42	1
Anthracene	<0.020		0.020	ug/L		08/01/25 11:31	08/03/25 10:42	1
Atrazine	<0.050		0.050	ug/L		08/01/25 11:31	08/03/25 10:42	1
Benz(a)anthracene	<0.050		0.050	ug/L		08/01/25 11:31	08/03/25 10:42	1
Benzo[a]pyrene	<0.020		0.020	ug/L		08/01/25 11:31	08/03/25 10:42	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		08/01/25 11:31	08/03/25 10:42	1
Benzo[g,h,i]perylene	<0.050		0.050	ug/L		08/01/25 11:31	08/03/25 10:42	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		08/01/25 11:31	08/03/25 10:42	1
beta-BHC	<0.099		0.099	ug/L		08/01/25 11:31	08/03/25 10:42	1
Bis(2-ethylhexyl) phthalate	<0.60		0.60	ug/L		08/01/25 11:31	08/03/25 10:42	1
Bromacil	<0.099		0.099	ug/L		08/01/25 11:31	08/03/25 10:42	1
Butachlor	<0.050		0.050	ug/L		08/01/25 11:31	08/03/25 10:42	1
Butylbenzylphthalate	<0.50		0.50	ug/L		08/01/25 11:31	08/03/25 10:42	1
Chlorobenzilate	<0.099		0.099	ug/L		08/01/25 11:31	08/03/25 10:42	1
Chloroneb	<0.099		0.099	ug/L		08/01/25 11:31	08/03/25 10:42	1
Chlorothalonil (Draconil, Bravo)	<0.099		0.099	ug/L		08/01/25 11:31	08/03/25 10:42	1
Chlorpyrifos	<0.050		0.050	ug/L		08/01/25 11:31	08/03/25 10:42	1
Chrysene	<0.020		0.020	ug/L		08/01/25 11:31	08/03/25 10:42	1
delta-BHC	<0.099		0.099	ug/L		08/01/25 11:31	08/03/25 10:42	1
Di(2-ethylhexyl)adipate	<0.60		0.60	ug/L		08/01/25 11:31	08/03/25 10:42	1
Dibenz(a,h)anthracene	<0.050		0.050	ug/L		08/01/25 11:31	08/03/25 10:42	1
Diclorvos (DDVP)	<0.050		0.050	ug/L		08/01/25 11:31	08/03/25 10:42	1
Dieldrin	<0.0099		0.0099	ug/L		08/01/25 11:31	08/03/25 10:42	1
Diethylphthalate	<0.50		0.50	ug/L		08/01/25 11:31	08/03/25 10:42	1
Dimethylphthalate	<0.50		0.50	ug/L		08/01/25 11:31	08/03/25 10:42	1
Di-n-butyl phthalate	<0.99		0.99	ug/L		08/01/25 11:31	08/03/25 10:42	1
Di-n-octyl phthalate	<0.099		0.099	ug/L		08/01/25 11:31	08/03/25 10:42	1
Endosulfan I (Alpha)	<0.099		0.099	ug/L		08/01/25 11:31	08/03/25 10:42	1
Endosulfan II (Beta)	<0.099		0.099	ug/L		08/01/25 11:31	08/03/25 10:42	1
Endosulfan sulfate	<0.099		0.099	ug/L		08/01/25 11:31	08/03/25 10:42	1
Endrin	<0.0099		0.0099	ug/L		08/01/25 11:31	08/03/25 10:42	1
Endrin aldehyde	<0.099		0.099	ug/L		08/01/25 11:31	08/03/25 10:42	1
EPTC	<0.099		0.099	ug/L		08/01/25 11:31	08/03/25 10:42	1

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QC Sample Results

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

Job ID: 380-163416-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

Lab Sample ID: MB 380-166346/21-A

Matrix: Water

Analysis Batch: 166488

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 166346

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.099		0.099	ug/L		08/01/25 11:31	08/03/25 10:42	1
Fluorene	<0.050		0.050	ug/L		08/01/25 11:31	08/03/25 10:42	1
gamma-Chlordane	<0.050		0.050	ug/L		08/01/25 11:31	08/03/25 10:42	1
Heptachlor	<0.0099		0.0099	ug/L		08/01/25 11:31	08/03/25 10:42	1
Heptachlor epoxide (isomer B)	<0.0099		0.0099	ug/L		08/01/25 11:31	08/03/25 10:42	1
Hexachlorobenzene	<0.050		0.050	ug/L		08/01/25 11:31	08/03/25 10:42	1
Hexachlorocyclopentadiene	<0.050		0.050	ug/L		08/01/25 11:31	08/03/25 10:42	1
Indeno[1,2,3-cd]pyrene	<0.050		0.050	ug/L		08/01/25 11:31	08/03/25 10:42	1
Isophorone	<0.099		0.099	ug/L		08/01/25 11:31	08/03/25 10:42	1
Lindane	<0.0099		0.0099	ug/L		08/01/25 11:31	08/03/25 10:42	1
Malathion	<0.099		0.099	ug/L		08/01/25 11:31	08/03/25 10:42	1
Methoxychlor	<0.050		0.050	ug/L		08/01/25 11:31	08/03/25 10:42	1
Metolachlor	<0.050		0.050	ug/L		08/01/25 11:31	08/03/25 10:42	1
Molinate	<0.099		0.099	ug/L		08/01/25 11:31	08/03/25 10:42	1
Naphthalene	<0.099		0.099	ug/L		08/01/25 11:31	08/03/25 10:42	1
Parathion	<0.099		0.099	ug/L		08/01/25 11:31	08/03/25 10:42	1
Pendimethalin (Penoxaline)	<0.099		0.099	ug/L		08/01/25 11:31	08/03/25 10:42	1
Phenanthrene	<0.040		0.040	ug/L		08/01/25 11:31	08/03/25 10:42	1
Propachlor	<0.050		0.050	ug/L		08/01/25 11:31	08/03/25 10:42	1
Pyrene	<0.050		0.050	ug/L		08/01/25 11:31	08/03/25 10:42	1
Simazine	<0.050		0.050	ug/L		08/01/25 11:31	08/03/25 10:42	1
Terbacil	<0.099		0.099	ug/L		08/01/25 11:31	08/03/25 10:42	1
Terbutylazine	<0.099		0.099	ug/L		08/01/25 11:31	08/03/25 10:42	1
Thiobencarb	<0.099		0.099	ug/L		08/01/25 11:31	08/03/25 10:42	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		08/01/25 11:31	08/03/25 10:42	1
trans-Nonachlor	<0.050		0.050	ug/L		08/01/25 11:31	08/03/25 10:42	1
Trifluralin	<0.099		0.099	ug/L		08/01/25 11:31	08/03/25 10:42	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Decane	2.60	T J N	ug/L		2.73	124-18-5	08/01/25 11:31	08/03/25 10:42	1
Unknown	1.15	T J	ug/L		3.83	N/A	08/01/25 11:31	08/03/25 10:42	1
9-Octadecenamide, (Z)-	0.695	T J N	ug/L		7.82	301-02-0	08/01/25 11:31	08/03/25 10:42	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	91		70 - 130	08/01/25 11:31	08/03/25 10:42	1
Perylene-d12	86		70 - 130	08/01/25 11:31	08/03/25 10:42	1
Triphenylphosphate	109		70 - 130	08/01/25 11:31	08/03/25 10:42	1

Lab Sample ID: LCS 380-166346/23-A

Matrix: Water

Analysis Batch: 166488

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 166346

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	1.98	1.84		ug/L		93	70 - 130
2,4'-DDD	1.98	2.13		ug/L		108	70 - 130
2,4'-DDE	1.98	2.02		ug/L		102	70 - 130
2,4'-DDT	1.98	1.98		ug/L		100	70 - 130
2,4-Dinitrotoluene	1.98	2.04		ug/L		103	70 - 130

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QC Sample Results

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

Job ID: 380-163416-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

Lab Sample ID: LCS 380-166346/23-A

Matrix: Water

Analysis Batch: 166488

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 166346

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,6-Dinitrotoluene	1.98	1.80		ug/L		91	70 - 130
2-Methylnaphthalene	1.98	1.87		ug/L		95	70 - 130
4,4'-DDD	1.98	2.08		ug/L		105	70 - 130
4,4'-DDE	1.98	2.16		ug/L		109	70 - 130
4,4'-DDT	1.98	1.90		ug/L		96	70 - 130
Acenaphthene	1.98	1.86		ug/L		94	70 - 130
Acenaphthylene	1.98	1.87		ug/L		94	70 - 130
Acetochlor	1.98	2.00		ug/L		101	70 - 130
Alachlor	1.98	2.01		ug/L		101	70 - 130
alpha-BHC	1.98	1.93		ug/L		97	70 - 130
alpha-Chlordane	1.98	2.37		ug/L		119	70 - 130
Anthracene	1.98	2.06		ug/L		104	70 - 130
Atrazine	1.98	2.16		ug/L		109	70 - 130
Benz(a)anthracene	1.98	1.93		ug/L		98	70 - 130
Benzo[a]pyrene	1.98	2.03		ug/L		102	70 - 130
Benzo[b]fluoranthene	1.98	2.04		ug/L		103	70 - 130
Benzo[g,h,i]perylene	1.98	1.83		ug/L		92	70 - 130
Benzo[k]fluoranthene	1.98	2.08		ug/L		105	70 - 130
beta-BHC	1.98	1.94		ug/L		98	70 - 130
Bis(2-ethylhexyl) phthalate	1.98	1.74		ug/L		88	70 - 130
Bromacil	1.98	2.00		ug/L		101	70 - 130
Butachlor	1.98	1.98		ug/L		100	70 - 130
Butylbenzylphthalate	1.98	1.89		ug/L		95	70 - 130
Chlorobenzilate	1.98	1.80		ug/L		91	70 - 130
Chloroneb	1.98	1.94		ug/L		98	70 - 130
Chlorothalonil (Draconil, Bravo)	1.98	2.15		ug/L		108	70 - 130
Chlorpyrifos	1.98	2.10		ug/L		106	70 - 130
Chrysene	1.98	1.92		ug/L		97	70 - 130
delta-BHC	1.98	1.81		ug/L		91	70 - 130
Di(2-ethylhexyl)adipate	1.98	1.81		ug/L		91	70 - 130
Dibenz(a,h)anthracene	1.98	1.93		ug/L		97	70 - 130
Diclorvos (DDVP)	1.98	1.94		ug/L		98	70 - 130
Dieldrin	1.98	1.93		ug/L		97	70 - 130
Diethylphthalate	1.98	2.02		ug/L		102	70 - 130
Dimethylphthalate	1.98	2.02		ug/L		102	70 - 130
Di-n-butyl phthalate	3.96	4.33		ug/L		109	70 - 130
Di-n-octyl phthalate	1.98	1.84		ug/L		93	70 - 130
Endosulfan I (Alpha)	1.98	1.88		ug/L		95	70 - 130
Endosulfan II (Beta)	1.98	1.87		ug/L		94	70 - 130
Endosulfan sulfate	1.98	1.87		ug/L		94	70 - 130
Endrin	1.98	2.20		ug/L		111	70 - 130
Endrin aldehyde	1.98	2.16		ug/L		109	60 - 130
EPTC	1.98	1.97		ug/L		100	70 - 130
Fluoranthene	1.98	2.10		ug/L		106	70 - 130
Fluorene	1.98	1.98		ug/L		100	70 - 130
gamma-Chlordane	1.98	2.31		ug/L		117	70 - 130
Heptachlor	1.98	2.26		ug/L		114	70 - 130
Heptachlor epoxide (isomer B)	1.98	2.24		ug/L		113	70 - 130
Hexachlorobenzene	1.98	2.07		ug/L		104	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-163416-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

Lab Sample ID: LCS 380-166346/23-A

Matrix: Water

Analysis Batch: 166488

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 166346

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Hexachlorocyclopentadiene	1.98	2.22		ug/L		112	70 - 130
Indeno[1,2,3-cd]pyrene	1.98	2.08		ug/L		105	70 - 130
Isophorone	1.98	1.93		ug/L		97	70 - 130
Lindane	1.98	2.03		ug/L		103	70 - 130
Malathion	1.98	2.04		ug/L		103	70 - 130
Methoxychlor	1.98	2.14		ug/L		108	70 - 130
Metolachlor	1.98	2.12		ug/L		107	70 - 130
Molinate	1.98	1.98		ug/L		100	70 - 130
Naphthalene	1.98	1.85		ug/L		93	70 - 130
Parathion	1.98	1.82		ug/L		92	70 - 130
Pendimethalin (Penoxaline)	1.98	2.18		ug/L		110	70 - 130
Phenanthrene	1.98	1.83		ug/L		92	70 - 130
Propachlor	1.98	1.97		ug/L		99	70 - 130
Pyrene	1.98	2.13		ug/L		107	70 - 130
Simazine	1.98	2.07		ug/L		104	70 - 130
Terbacil	1.98	1.98		ug/L		100	70 - 130
Terbutylazine	1.98	2.08		ug/L		105	70 - 130
Thiobencarb	1.98	2.01		ug/L		101	70 - 130
trans-Nonachlor	1.98	2.44		ug/L		123	70 - 130
Trifluralin	1.98	2.17		ug/L		109	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Nitro-m-xylene	91		70 - 130
Perylene-d12	94		70 - 130
Triphenylphosphate	111		70 - 130

Lab Sample ID: LCSD 380-166346/24-A

Matrix: Water

Analysis Batch: 166488

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 166346

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	1.98	1.81		ug/L		92	70 - 130	2	20
2,4'-DDD	1.98	2.18		ug/L		110	70 - 130	2	20
2,4'-DDE	1.98	2.04		ug/L		103	70 - 130	1	20
2,4'-DDT	1.98	2.04		ug/L		103	70 - 130	3	20
2,4-Dinitrotoluene	1.98	2.25		ug/L		114	70 - 130	10	20
2,6-Dinitrotoluene	1.98	1.91		ug/L		96	70 - 130	6	20
2-Methylnaphthalene	1.98	1.83		ug/L		92	70 - 130	3	20
4,4'-DDD	1.98	2.14		ug/L		108	70 - 130	3	20
4,4'-DDE	1.98	2.15		ug/L		108	70 - 130	0	20
4,4'-DDT	1.98	1.97		ug/L		100	70 - 130	4	20
Acenaphthene	1.98	1.85		ug/L		93	70 - 130	1	20
Acenaphthylene	1.98	1.89		ug/L		95	70 - 130	1	20
Acetochlor	1.98	2.03		ug/L		103	70 - 130	2	20
Alachlor	1.98	2.05		ug/L		104	70 - 130	2	20
alpha-BHC	1.98	2.00		ug/L		101	70 - 130	4	20
alpha-Chlordane	1.98	2.39		ug/L		120	70 - 130	1	20
Anthracene	1.98	2.06		ug/L		104	70 - 130	0	20

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-163416-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

Lab Sample ID: LCSD 380-166346/24-A

Matrix: Water

Analysis Batch: 166488

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 166346

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Atrazine	1.98	2.29		ug/L		116	70 - 130	6	20
Benz(a)anthracene	1.98	1.98		ug/L		100	70 - 130	2	20
Benzo[a]pyrene	1.98	2.07		ug/L		104	70 - 130	2	20
Benzo[b]fluoranthene	1.98	2.05		ug/L		104	70 - 130	1	20
Benzo[g,h,i]perylene	1.98	1.84		ug/L		93	70 - 130	0	20
Benzo[k]fluoranthene	1.98	2.05		ug/L		103	70 - 130	1	20
beta-BHC	1.98	2.07		ug/L		104	70 - 130	7	20
Bis(2-ethylhexyl) phthalate	1.98	1.73		ug/L		87	70 - 130	1	20
Bromacil	1.98	2.05		ug/L		103	70 - 130	2	20
Butachlor	1.98	2.01		ug/L		101	70 - 130	1	20
Butylbenzylphthalate	1.98	1.87		ug/L		94	70 - 130	1	20
Chlorobenzilate	1.98	1.84		ug/L		93	70 - 130	3	20
Chloroneb	1.98	1.99		ug/L		100	70 - 130	3	20
Chlorothalonil (Draconil, Bravo)	1.98	2.21		ug/L		111	70 - 130	3	20
Chlorpyrifos	1.98	2.13		ug/L		108	70 - 130	2	20
Chrysene	1.98	1.99		ug/L		100	70 - 130	4	20
delta-BHC	1.98	1.82		ug/L		92	70 - 130	1	20
Di(2-ethylhexyl)adipate	1.98	1.83		ug/L		92	70 - 130	1	20
Dibenz(a,h)anthracene	1.98	1.92		ug/L		97	70 - 130	1	20
Diclorvos (DDVP)	1.98	1.95		ug/L		98	70 - 130	0	20
Dieldrin	1.98	1.99		ug/L		100	70 - 130	3	20
Diethylphthalate	1.98	2.11		ug/L		107	70 - 130	4	20
Dimethylphthalate	1.98	2.05		ug/L		103	70 - 130	2	20
Di-n-butyl phthalate	3.97	4.41		ug/L		111	70 - 130	2	20
Di-n-octyl phthalate	1.98	1.83		ug/L		92	70 - 130	1	20
Endosulfan I (Alpha)	1.98	1.93		ug/L		97	70 - 130	3	20
Endosulfan II (Beta)	1.98	1.90		ug/L		96	70 - 130	2	20
Endosulfan sulfate	1.98	1.92		ug/L		97	70 - 130	3	20
Endrin	1.98	2.20		ug/L		111	70 - 130	0	20
Endrin aldehyde	1.98	2.19		ug/L		111	60 - 130	2	20
EPTC	1.98	1.92		ug/L		97	70 - 130	3	20
Fluoranthene	1.98	2.11		ug/L		107	70 - 130	1	20
Fluorene	1.98	2.01		ug/L		101	70 - 130	1	20
gamma-Chlordane	1.98	2.33		ug/L		117	70 - 130	1	20
Heptachlor	1.98	2.26		ug/L		114	70 - 130	0	20
Heptachlor epoxide (isomer B)	1.98	2.29		ug/L		115	70 - 130	2	20
Hexachlorobenzene	1.98	2.13		ug/L		107	70 - 130	3	20
Hexachlorocyclopentadiene	1.98	2.18		ug/L		110	70 - 130	2	20
Indeno[1,2,3-cd]pyrene	1.98	2.11		ug/L		106	70 - 130	1	20
Isophorone	1.98	1.97		ug/L		99	70 - 130	2	20
Lindane	1.98	2.16		ug/L		109	70 - 130	6	20
Malathion	1.98	2.07		ug/L		105	70 - 130	2	20
Methoxychlor	1.98	2.22		ug/L		112	70 - 130	3	20
Metolachlor	1.98	2.15		ug/L		109	70 - 130	2	20
Molinate	1.98	2.00		ug/L		101	70 - 130	1	20
Naphthalene	1.98	1.81		ug/L		91	70 - 130	2	20
Parathion	1.98	1.91		ug/L		96	70 - 130	5	20
Pendimethalin (Penoxaline)	1.98	2.29		ug/L		115	70 - 130	5	20
Phenanthrene	1.98	1.81		ug/L		91	70 - 130	1	20

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-163416-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

Lab Sample ID: LCSD 380-166346/24-A

Matrix: Water

Analysis Batch: 166488

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 166346

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Propachlor	1.98	2.09		ug/L		105	70 - 130	6	20
Pyrene	1.98	2.16		ug/L		109	70 - 130	1	20
Simazine	1.98	2.18		ug/L		110	70 - 130	5	20
Terbacil	1.98	1.97		ug/L		100	70 - 130	0	20
Terbutylazine	1.98	2.24		ug/L		113	70 - 130	7	20
Thiobencarb	1.98	2.04		ug/L		103	70 - 130	1	20
trans-Nonachlor	1.98	2.48		ug/L		125	70 - 130	2	20
Trifluralin	1.98	2.35		ug/L		119	70 - 130	8	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Nitro-m-xylene	90		70 - 130
Perylene-d12	95		70 - 130
Triphenylphosphate	112		70 - 130

Lab Sample ID: MRL 380-166346/22-A

Matrix: Water

Analysis Batch: 166488

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 166346

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	0.0995	0.101		ug/L		101	50 - 150
2,4'-DDD	0.0995	0.0827	J	ug/L		83	50 - 150
2,4'-DDE	0.0995	0.0876	J	ug/L		88	50 - 150
2,4'-DDT	0.0995	0.107		ug/L		108	50 - 150
2,4-Dinitrotoluene	0.0995	0.105		ug/L		105	50 - 150
2,6-Dinitrotoluene	0.0995	0.105		ug/L		106	50 - 150
2-Methylnaphthalene	0.0995	0.0920	J	ug/L		92	50 - 150
4,4'-DDD	0.0995	0.0875	J	ug/L		88	50 - 150
4,4'-DDE	0.0995	0.0885	J	ug/L		89	50 - 150
4,4'-DDT	0.0995	0.112		ug/L		112	50 - 150
Acenaphthene	0.0995	0.0857	J	ug/L		86	50 - 150
Acenaphthylene	0.0995	0.0801	J	ug/L		81	50 - 150
Acetochlor	0.0995	0.0933	J	ug/L		94	50 - 150
Alachlor	0.0498	0.0451	J	ug/L		91	50 - 150
alpha-BHC	0.0995	0.0860	J	ug/L		86	50 - 150
alpha-Chlordane	0.0249	<0.029		ug/L		92	50 - 150
Anthracene	0.0199	0.0196	J	ug/L		98	50 - 150
Atrazine	0.0498	0.0528		ug/L		106	50 - 150
Benz(a)anthracene	0.0498	0.0457	J	ug/L		92	50 - 150
Benzo[a]pyrene	0.0199	0.0196	J	ug/L		99	50 - 150
Benzo[b]fluoranthene	0.0199	0.0216		ug/L		108	50 - 150
Benzo[g,h,i]perylene	0.0498	0.0483	J	ug/L		97	50 - 150
Benzo[k]fluoranthene	0.0199	0.0189	J	ug/L		95	50 - 150
beta-BHC	0.0995	0.0900	J	ug/L		90	50 - 150
Bis(2-ethylhexyl) phthalate	0.597	0.493	J	ug/L		83	50 - 150
Bromacil	0.0995	0.112		ug/L		113	50 - 150
Butachlor	0.0498	0.0536		ug/L		108	50 - 150
Butylbenzylphthalate	0.498	0.435	J	ug/L		87	50 - 150
Chlorobenzilate	0.0995	0.0983	J	ug/L		99	50 - 150

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-163416-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

Lab Sample ID: MRL 380-166346/22-A

Matrix: Water

Analysis Batch: 166488

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 166346

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chloroneb	0.0995	0.0986	J	ug/L		99	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0995	0.0824	J	ug/L		83	50 - 150
Chlorpyrifos	0.0498	0.0486	J	ug/L		98	50 - 150
Chrysene	0.0199	0.0199	J	ug/L		100	50 - 150
delta-BHC	0.0995	0.0878	J	ug/L		88	50 - 150
Di(2-ethylhexyl)adipate	0.597	0.513	J	ug/L		86	50 - 150
Dibenz(a,h)anthracene	0.0498	0.0519		ug/L		104	50 - 150
Diclorvos (DDVP)	0.0498	0.0518		ug/L		104	50 - 150
Dieldrin	0.00995	0.00866	J	ug/L		87	50 - 150
Diethylphthalate	0.498	0.470	J	ug/L		94	50 - 150
Dimethylphthalate	0.498	0.477	J	ug/L		96	50 - 150
Di-n-butyl phthalate	0.498	0.570	J	ug/L		115	49 - 243
Di-n-octyl phthalate	0.0995	0.0942	J	ug/L		95	50 - 150
Endosulfan I (Alpha)	0.0995	0.0799	J	ug/L		80	50 - 150
Endosulfan II (Beta)	0.0995	0.0857	J	ug/L		86	50 - 150
Endosulfan sulfate	0.0995	0.105		ug/L		105	50 - 150
Endrin	0.00995	0.0121		ug/L		121	50 - 150
Endrin aldehyde	0.0995	0.119		ug/L		120	50 - 150
EPTC	0.0995	0.0917	J	ug/L		92	50 - 150
Fluoranthene	0.0995	0.0897	J	ug/L		90	50 - 150
Fluorene	0.0498	<0.050		ug/L		90	50 - 150
gamma-Chlordane	0.0249	0.0234	J	ug/L		94	50 - 150
Heptachlor	0.00995	0.00997	J	ug/L		100	50 - 150
Heptachlor epoxide (isomer B)	0.00995	0.0104		ug/L		104	50 - 150
Hexachlorobenzene	0.0498	0.0455	J	ug/L		91	50 - 150
Hexachlorocyclopentadiene	0.0498	0.0449	J	ug/L		90	50 - 150
Indeno[1,2,3-cd]pyrene	0.0498	0.0511		ug/L		103	50 - 150
Isophorone	0.0995	0.0994	J	ug/L		100	50 - 150
Lindane	0.00995	0.0105		ug/L		106	50 - 150
Malathion	0.0995	0.103		ug/L		103	50 - 150
Methoxychlor	0.0498	0.0583		ug/L		117	50 - 150
Metolachlor	0.0498	0.0517		ug/L		104	50 - 150
Molinate	0.0995	0.0919	J	ug/L		92	50 - 150
Naphthalene	0.0995	0.0873	J	ug/L		88	50 - 150
Parathion	0.0995	0.0929	J	ug/L		93	50 - 150
Pendimethalin (Penoxaline)	0.0995	0.110		ug/L		110	50 - 150
Phenanthrene	0.0398	0.0381	J	ug/L		96	50 - 150
Propachlor	0.0498	0.0525		ug/L		106	50 - 150
Pyrene	0.0498	0.0447	J	ug/L		90	50 - 150
Simazine	0.0498	0.0554		ug/L		111	50 - 150
Terbacil	0.0995	0.110		ug/L		110	50 - 150
Terbutylazine	0.0995	0.104		ug/L		104	50 - 150
Thiobencarb	0.0995	0.0829	J	ug/L		83	50 - 150
trans-Nonachlor	0.0249	<0.026		ug/L		100	50 - 150
Trifluralin	0.0995	0.112		ug/L		113	50 - 150

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

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-163416-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

Lab Sample ID: MRL 380-166346/22-A

Matrix: Water

Analysis Batch: 166488

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 166346

Surrogate	MRL %Recovery	MRL Qualifier	Limits
Perylene-d12	86		70 - 130
Triphenylphosphate	105		70 - 130

Lab Sample ID: 380-163413-B-1-A MS

Matrix: Water

Analysis Batch: 166488

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 166346

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.098		1.93	1.81		ug/L		93	70 - 130
2,4'-DDD	<0.098		1.93	2.12		ug/L		110	70 - 130
2,4'-DDE	<0.098		1.93	1.96		ug/L		102	70 - 130
2,4'-DDT	<0.098		1.93	1.93		ug/L		100	70 - 130
2,4-Dinitrotoluene	<0.098		1.93	2.06		ug/L		107	70 - 130
2,6-Dinitrotoluene	<0.098		1.93	1.80		ug/L		93	70 - 130
2-Methylnaphthalene	<0.098		1.93	1.81		ug/L		94	70 - 130
4,4'-DDD	<0.098		1.93	2.06		ug/L		107	70 - 130
4,4'-DDE	<0.098		1.93	2.09		ug/L		108	70 - 130
4,4'-DDT	<0.098		1.93	1.87		ug/L		97	70 - 130
Acenaphthene	<0.098		1.93	1.82		ug/L		94	70 - 130
Acenaphthylene	<0.098		1.93	1.82		ug/L		94	70 - 130
Acetochlor	<0.098		1.93	1.96		ug/L		101	70 - 130
Alachlor	<0.049		1.93	1.98		ug/L		103	70 - 130
alpha-BHC	<0.098		1.93	1.83		ug/L		95	70 - 130
alpha-Chlordane	<0.049		1.93	2.30		ug/L		118	70 - 130
Anthracene	<0.020		1.93	2.02		ug/L		105	70 - 130
Atrazine	<0.049		1.93	2.09		ug/L		108	70 - 130
Benz(a)anthracene	<0.049		1.93	1.91		ug/L		99	70 - 130
Benzo[a]pyrene	<0.020		1.93	2.00		ug/L		104	70 - 130
Benzo[b]fluoranthene	<0.020		1.93	1.98		ug/L		102	70 - 130
Benzo[g,h,i]perylene	<0.049		1.93	1.74		ug/L		90	70 - 130
Benzo[k]fluoranthene	<0.020		1.93	2.00		ug/L		104	70 - 130
beta-BHC	<0.098		1.93	1.88		ug/L		97	70 - 130
Bis(2-ethylhexyl) phthalate	<0.59		1.93	1.65		ug/L		86	70 - 130
Bromacil	<0.098		1.93	2.08		ug/L		105	70 - 130
Butachlor	<0.049		1.93	1.95		ug/L		101	70 - 130
Butylbenzylphthalate	<0.49		1.93	1.85		ug/L		96	70 - 130
Chlorobenzilate	<0.098		1.93	1.79		ug/L		93	70 - 130
Chloroneb	<0.098		1.93	1.87		ug/L		97	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.098		1.93	2.11		ug/L		110	70 - 130
Chlorpyrifos	<0.049		1.93	2.06		ug/L		107	70 - 130
Chrysene	<0.020		1.93	1.89		ug/L		98	70 - 130
delta-BHC	<0.098		1.93	1.77		ug/L		92	70 - 130
Di(2-ethylhexyl)adipate	<0.59		1.93	1.76		ug/L		91	70 - 130
Dibenz(a,h)anthracene	<0.049		1.93	1.74		ug/L		90	70 - 130
Diclorvos (DDVP)	<0.049		1.93	1.94		ug/L		100	70 - 130
Dieldrin	0.069		1.93	1.93		ug/L		96	70 - 130
Diethylphthalate	<0.49		1.93	1.98		ug/L		103	70 - 130
Dimethylphthalate	<0.49		1.93	1.96		ug/L		102	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-163416-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

Lab Sample ID: 380-163413-B-1-A MS

Matrix: Water

Analysis Batch: 166488

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 166346

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Di-n-butyl phthalate	<0.98		3.86	4.39		ug/L		109	70 - 130
Di-n-octyl phthalate	<0.098		1.93	1.73		ug/L		90	70 - 130
Endosulfan I (Alpha)	<0.098		1.93	1.86		ug/L		96	70 - 130
Endosulfan II (Beta)	<0.098		1.93	1.81		ug/L		94	70 - 130
Endosulfan sulfate	<0.098		1.93	1.82		ug/L		94	70 - 130
Endrin	<0.0098		1.93	2.11		ug/L		109	70 - 130
Endrin aldehyde	<0.098		1.93	2.05		ug/L		106	60 - 130
EPTC	<0.098		1.93	1.92		ug/L		99	70 - 130
Fluoranthene	<0.098		1.93	2.06		ug/L		107	70 - 130
Fluorene	<0.049		1.93	1.94		ug/L		101	70 - 130
gamma-Chlordane	<0.049		1.93	2.25		ug/L		115	70 - 130
Heptachlor	<0.0098		1.93	2.18		ug/L		113	70 - 130
Heptachlor epoxide (isomer B)	0.014		1.93	2.17		ug/L		112	70 - 130
Hexachlorobenzene	<0.049		1.93	2.02		ug/L		105	70 - 130
Hexachlorocyclopentadiene	<0.049		1.93	2.26		ug/L		117	70 - 130
Indeno[1,2,3-cd]pyrene	<0.049		1.93	1.97		ug/L		102	70 - 130
Isophorone	<0.098		1.93	2.00		ug/L		104	70 - 130
Lindane	<0.0098		1.93	1.98		ug/L		103	70 - 130
Malathion	<0.098		1.93	1.99		ug/L		103	70 - 130
Methoxychlor	<0.049		1.93	2.11		ug/L		109	70 - 130
Metolachlor	<0.049		1.93	2.08		ug/L		108	70 - 130
Molinate	<0.098		1.93	1.94		ug/L		101	70 - 130
Naphthalene	<0.098		1.93	1.79		ug/L		93	70 - 130
Parathion	<0.098		1.93	1.81		ug/L		94	70 - 130
Pendimethalin (Penoxaline)	<0.098		1.93	2.20		ug/L		114	70 - 130
Phenanthrene	<0.039		1.93	1.78		ug/L		92	70 - 130
Propachlor	<0.049		1.93	1.93		ug/L		100	70 - 130
Pyrene	<0.049		1.93	2.09		ug/L		108	70 - 130
Simazine	<0.049		1.93	1.98		ug/L		103	70 - 130
Terbacil	<0.098		1.93	1.98		ug/L		103	70 - 130
Terbutylazine	<0.098		1.93	2.00		ug/L		104	70 - 130
Thiobencarb	<0.098		1.93	1.97		ug/L		102	70 - 130
trans-Nonachlor	<0.049		1.93	2.37		ug/L		122	70 - 130
Trifluralin	<0.098		1.93	2.13		ug/L		110	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Nitro-m-xylene	92		70 - 130
Perylene-d12	93		70 - 130
Triphenylphosphate	113		70 - 130

Lab Sample ID: 380-163413-B-3-A DU

Matrix: Water

Analysis Batch: 166488

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 166346

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
1-Methylnaphthalene	<0.098		<0.097		ug/L		NC	20
2,4'-DDD	<0.098		<0.097		ug/L		NC	20
2,4'-DDE	<0.098		<0.097		ug/L		NC	20

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-163416-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

Lab Sample ID: 380-163413-B-3-A DU

Matrix: Water

Analysis Batch: 166488

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 166346

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
2,4'-DDT	<0.098		<0.097		ug/L		NC	20
2,4-Dinitrotoluene	<0.098		<0.097		ug/L		NC	20
2,6-Dinitrotoluene	<0.098		<0.097		ug/L		NC	20
2-Methylnaphthalene	<0.098		<0.097		ug/L		NC	20
4,4'-DDD	<0.098		<0.097		ug/L		NC	20
4,4'-DDE	<0.098		<0.097		ug/L		NC	20
4,4'-DDT	<0.098		<0.097		ug/L		NC	20
Acenaphthene	<0.098		<0.097		ug/L		NC	20
Acenaphthylene	<0.098		<0.097		ug/L		NC	20
Acetochlor	<0.098		<0.097		ug/L		NC	20
Alachlor	<0.049		<0.049		ug/L		NC	20
alpha-BHC	<0.098		<0.097		ug/L		NC	20
alpha-Chlordane	<0.049		<0.049		ug/L		NC	20
Anthracene	<0.020		<0.019		ug/L		NC	20
Atrazine	<0.049		<0.049		ug/L		NC	20
Benz(a)anthracene	<0.049		<0.049		ug/L		NC	20
Benzo[a]pyrene	<0.020		<0.019		ug/L		NC	20
Benzo[b]fluoranthene	<0.020		<0.019		ug/L		NC	20
Benzo[g,h,i]perylene	<0.049		<0.049		ug/L		NC	20
Benzo[k]fluoranthene	<0.020		<0.019		ug/L		NC	20
beta-BHC	<0.098		<0.097		ug/L		NC	20
Bis(2-ethylhexyl) phthalate	<0.59		<0.58		ug/L		NC	20
Bromacil	<0.098		<0.097		ug/L		NC	20
Butachlor	<0.049		<0.049		ug/L		NC	20
Butylbenzylphthalate	<0.49		<0.49		ug/L		NC	20
Chlorobenzilate	<0.098		<0.097		ug/L		NC	20
Chloroneb	<0.098		<0.097		ug/L		NC	20
Chlorothalonil (Draconil, Bravo)	<0.098		<0.097		ug/L		NC	20
Chlorpyrifos	<0.049		<0.049		ug/L		NC	20
Chrysene	<0.020		<0.019		ug/L		NC	20
delta-BHC	<0.098		<0.097		ug/L		NC	20
Di(2-ethylhexyl)adipate	<0.59		<0.58		ug/L		NC	20
Dibenz(a,h)anthracene	<0.049		<0.049		ug/L		NC	20
Diclorvos (DDVP)	<0.049		<0.049		ug/L		NC	20
Dieldrin	0.063		0.0627		ug/L		0.2	20
Diethylphthalate	<0.49		<0.49		ug/L		NC	20
Dimethylphthalate	<0.49		<0.49		ug/L		NC	20
Di-n-butyl phthalate	<0.98		<0.97		ug/L		NC	20
Di-n-octyl phthalate	<0.098		<0.097		ug/L		NC	20
Endosulfan I (Alpha)	<0.098		<0.097		ug/L		NC	20
Endosulfan II (Beta)	<0.098		<0.097		ug/L		NC	20
Endosulfan sulfate	<0.098		<0.097		ug/L		NC	20
Endrin	<0.0098		<0.0097		ug/L		NC	20
Endrin aldehyde	<0.098		<0.097		ug/L		NC	20
EPTC	<0.098		<0.097		ug/L		NC	20
Fluoranthene	<0.098		<0.097		ug/L		NC	20
Fluorene	<0.049		<0.049		ug/L		NC	20
gamma-Chlordane	<0.049		<0.049		ug/L		NC	20
Heptachlor	<0.0098		<0.0097		ug/L		NC	20

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QC Sample Results

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

Job ID: 380-163416-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

Lab Sample ID: 380-163413-B-3-A DU

Matrix: Water

Analysis Batch: 166488

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 166346

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Heptachlor epoxide (isomer B)	0.011		0.0123		ug/L		16	20
Hexachlorobenzene	<0.049		<0.049		ug/L		NC	20
Hexachlorocyclopentadiene	<0.049		<0.049		ug/L		NC	20
Indeno[1,2,3-cd]pyrene	<0.049		<0.049		ug/L		NC	20
Isophorone	<0.098		<0.097		ug/L		NC	20
Lindane	<0.0098		<0.0097		ug/L		NC	20
Malathion	<0.098		<0.097		ug/L		NC	20
Methoxychlor	<0.049		<0.049		ug/L		NC	20
Metolachlor	<0.049		<0.049		ug/L		NC	20
Molinate	<0.098		<0.097		ug/L		NC	20
Naphthalene	<0.098		<0.097		ug/L		NC	20
Parathion	<0.098		<0.097		ug/L		NC	20
Pendimethalin (Penoxaline)	<0.098		<0.097		ug/L		NC	20
Phenanthrene	<0.039		<0.039		ug/L		NC	20
Propachlor	<0.049		<0.049		ug/L		NC	20
Pyrene	<0.049		<0.049		ug/L		NC	20
Simazine	<0.049		<0.049		ug/L		NC	20
Terbacil	<0.098		<0.097		ug/L		NC	20
Terbutylazine	<0.098		<0.097		ug/L		NC	20
Thiobencarb	<0.098		<0.097		ug/L		NC	20
Total Permethrin (mixed isomers)	<0.20		<0.19		ug/L		NC	20
trans-Nonachlor	<0.049		<0.049		ug/L		NC	20
Trifluralin	<0.098		<0.097		ug/L		NC	20

Surrogate	%Recovery	DU Qualifier	Limits
2-Nitro-m-xylene	91		70 - 130
Perylene-d12	90		70 - 130
Triphenylphosphate	114		70 - 130

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

Lab Sample ID: MB 570-605781/1-A

Matrix: Water

Analysis Batch: 610844

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 605781

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.20		0.20	ug/L		08/01/25 13:59	08/13/25 06:51	1
2-Methylnaphthalene	<0.20		0.20	ug/L		08/01/25 13:59	08/13/25 06:51	1
Acenaphthene	<0.20		0.20	ug/L		08/01/25 13:59	08/13/25 06:51	1
Acenaphthylene	<0.20		0.20	ug/L		08/01/25 13:59	08/13/25 06:51	1
Anthracene	<0.20		0.20	ug/L		08/01/25 13:59	08/13/25 06:51	1
Benzo[a]anthracene	<0.20		0.20	ug/L		08/01/25 13:59	08/13/25 06:51	1
Benzo[a]pyrene	<0.20		0.20	ug/L		08/01/25 13:59	08/13/25 06:51	1
Benzo[b]fluoranthene	<0.20		0.20	ug/L		08/01/25 13:59	08/13/25 06:51	1
Benzo[g,h,i]perylene	<0.20		0.20	ug/L		08/01/25 13:59	08/13/25 06:51	1
Benzo[k]fluoranthene	<0.20		0.20	ug/L		08/01/25 13:59	08/13/25 06:51	1
Chrysene	<0.20		0.20	ug/L		08/01/25 13:59	08/13/25 06:51	1
Dibenz(a,h)anthracene	<0.20		0.20	ug/L		08/01/25 13:59	08/13/25 06:51	1
Fluoranthene	<0.20		0.20	ug/L		08/01/25 13:59	08/13/25 06:51	1

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QC Sample Results

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

Job ID: 380-163416-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

Lab Sample ID: MB 570-605781/1-A

Matrix: Water

Analysis Batch: 610844

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 605781

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	<0.20		0.20	ug/L		08/01/25 13:59	08/13/25 06:51	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20	ug/L		08/01/25 13:59	08/13/25 06:51	1
Naphthalene	<0.20		0.20	ug/L		08/01/25 13:59	08/13/25 06:51	1
Phenanthrene	<0.20		0.20	ug/L		08/01/25 13:59	08/13/25 06:51	1
Pyrene	<0.20		0.20	ug/L		08/01/25 13:59	08/13/25 06:51	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	81		28 - 127	08/01/25 13:59	08/13/25 06:51	1
2-Fluorobiphenyl (Surr)	68		31 - 120	08/01/25 13:59	08/13/25 06:51	1
2-Fluorophenol (Surr)	48		17 - 120	08/01/25 13:59	08/13/25 06:51	1
Nitrobenzene-d5 (Surr)	76		27 - 120	08/01/25 13:59	08/13/25 06:51	1
Phenol-d6 (Surr)	31		10 - 120	08/01/25 13:59	08/13/25 06:51	1
p-Terphenyl-d14 (Surr)	79		45 - 120	08/01/25 13:59	08/13/25 06:51	1

Lab Sample ID: LCS 570-605781/2-A

Matrix: Water

Analysis Batch: 610844

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 605781

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	20.0	15.2		ug/L		76	47 - 120
2-Methylnaphthalene	20.0	14.8		ug/L		74	43 - 120
Acenaphthene	20.0	17.4		ug/L		87	60 - 132
Acenaphthylene	20.0	17.7		ug/L		89	54 - 126
Anthracene	20.0	18.1		ug/L		90	43 - 120
Benzo[a]anthracene	20.0	18.5		ug/L		92	42 - 133
Benzo[a]pyrene	20.0	18.7		ug/L		94	32 - 148
Benzo[b]fluoranthene	20.0	18.9		ug/L		94	42 - 140
Benzo[g,h,i]perylene	20.0	18.5		ug/L		92	1 - 195
Benzo[k]fluoranthene	20.0	18.2		ug/L		91	25 - 146
Chrysene	20.0	18.1		ug/L		90	44 - 140
Dibenz[a,h]anthracene	20.0	19.4		ug/L		97	1 - 200
Fluoranthene	20.0	19.0		ug/L		95	43 - 121
Fluorene	20.0	18.2		ug/L		91	70 - 120
Indeno[1,2,3-cd]pyrene	20.0	18.6		ug/L		93	1 - 151
Naphthalene	20.0	14.4		ug/L		72	36 - 120
Phenanthrene	20.0	18.1		ug/L		90	65 - 120
Pyrene	20.0	18.3		ug/L		91	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	85		28 - 127
2-Fluorobiphenyl (Surr)	76		31 - 120
2-Fluorophenol (Surr)	53		17 - 120
Nitrobenzene-d5 (Surr)	69		27 - 120
Phenol-d6 (Surr)	34		10 - 120
p-Terphenyl-d14 (Surr)	82		45 - 120

QC Sample Results

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

Job ID: 380-163416-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

Lab Sample ID: LCSD 570-605781/3-A

Matrix: Water

Analysis Batch: 610844

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 605781

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec	RPD	RPD
							Limits		
1-Methylnaphthalene	20.0	14.8		ug/L		74	47 - 120	3	20
2-Methylnaphthalene	20.0	14.5		ug/L		72	43 - 120	2	20
Acenaphthene	20.0	16.8		ug/L		84	60 - 132	3	29
Acenaphthylene	20.0	17.1		ug/L		86	54 - 126	3	45
Anthracene	20.0	17.0		ug/L		85	43 - 120	6	40
Benzo[a]anthracene	20.0	17.3		ug/L		86	42 - 133	7	32
Benzo[a]pyrene	20.0	17.8		ug/L		89	32 - 148	5	43
Benzo[b]fluoranthene	20.0	17.5		ug/L		87	42 - 140	8	43
Benzo[g,h,i]perylene	20.0	17.6		ug/L		88	1 - 195	5	61
Benzo[k]fluoranthene	20.0	17.3		ug/L		87	25 - 146	5	38
Chrysene	20.0	16.9		ug/L		85	44 - 140	7	53
Dibenz(a,h)anthracene	20.0	18.0		ug/L		90	1 - 200	7	75
Fluoranthene	20.0	17.7		ug/L		89	43 - 121	7	40
Fluorene	20.0	17.7		ug/L		88	70 - 120	3	23
Indeno[1,2,3-cd]pyrene	20.0	17.5		ug/L		87	1 - 151	6	60
Naphthalene	20.0	14.1		ug/L		71	36 - 120	2	39
Phenanthrene	20.0	17.0		ug/L		85	65 - 120	6	24
Pyrene	20.0	17.1		ug/L		85	70 - 120	7	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	78		28 - 127
2-Fluorobiphenyl (Surr)	72		31 - 120
2-Fluorophenol (Surr)	51		17 - 120
Nitrobenzene-d5 (Surr)	66		27 - 120
Phenol-d6 (Surr)	34		10 - 120
p-Terphenyl-d14 (Surr)	75		45 - 120

Lab Sample ID: 380-163427-A-1-B MS

Matrix: Water

Analysis Batch: 610844

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 605781

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	%Rec Limits	
				Result	Qualifier					
1-Methylnaphthalene	<0.19		19.3	13.1		ug/L		68	36 - 120	
2-Methylnaphthalene	<0.19		19.3	12.7		ug/L		66	32 - 124	
Acenaphthene	<0.19		19.3	14.4		ug/L		75	47 - 145	
Acenaphthylene	<0.19		19.3	14.8		ug/L		77	33 - 145	
Anthracene	<0.19		19.3	14.7		ug/L		76	27 - 133	
Benzo[a]anthracene	<0.19		19.3	15.2		ug/L		79	33 - 143	
Benzo[a]pyrene	<0.19		19.3	15.5		ug/L		80	17 - 163	
Benzo[b]fluoranthene	<0.19		19.3	15.5		ug/L		80	24 - 159	
Benzo[g,h,i]perylene	<0.19		19.3	15.5		ug/L		80	1 - 219	
Benzo[k]fluoranthene	<0.19		19.3	15.3		ug/L		79	11 - 162	
Chrysene	<0.19		19.3	15.1		ug/L		78	17 - 168	
Dibenz(a,h)anthracene	<0.19		19.3	16.0		ug/L		83	1 - 227	
Fluoranthene	<0.19		19.3	15.8		ug/L		82	26 - 137	
Fluorene	<0.19		19.3	15.2		ug/L		79	59 - 121	
Indeno[1,2,3-cd]pyrene	<0.19		19.3	15.4		ug/L		80	1 - 171	
Naphthalene	<0.19		19.3	12.3		ug/L		64	21 - 133	

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QC Sample Results

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

Job ID: 380-163416-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

Lab Sample ID: 380-163427-A-1-B MS

Matrix: Water

Analysis Batch: 610844

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 605781

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Phenanthrene	<0.19		19.3	14.9		ug/L		77	54 - 120
Pyrene	<0.19		19.3	15.2		ug/L		79	52 - 120

Surrogate	MS %Recovery	MS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	70		28 - 127
2-Fluorobiphenyl (Surr)	64		31 - 120
2-Fluorophenol (Surr)	44		17 - 120
Nitrobenzene-d5 (Surr)	58		27 - 120
Phenol-d6 (Surr)	31		10 - 120
p-Terphenyl-d14 (Surr)	70		45 - 120

Lab Sample ID: 380-163427-A-1-C MSD

Matrix: Water

Analysis Batch: 610844

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 605781

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	<0.19		19.1	14.7		ug/L		77	36 - 120	12	30
2-Methylnaphthalene	<0.19		19.1	14.4		ug/L		75	32 - 124	12	30
Acenaphthene	<0.19		19.1	16.9		ug/L		88	47 - 145	16	48
Acenaphthylene	<0.19		19.1	17.4		ug/L		91	33 - 145	16	74
Anthracene	<0.19		19.1	17.5		ug/L		91	27 - 133	17	66
Benzo[a]anthracene	<0.19		19.1	17.9		ug/L		94	33 - 143	16	53
Benzo[a]pyrene	<0.19		19.1	18.3		ug/L		96	17 - 163	17	72
Benzo[b]fluoranthene	<0.19		19.1	18.3		ug/L		96	24 - 159	17	71
Benzo[g,h,i]perylene	<0.19		19.1	18.3		ug/L		96	1 - 219	16	97
Benzo[k]fluoranthene	<0.19		19.1	17.5		ug/L		91	11 - 162	13	63
Chrysene	<0.19		19.1	17.6		ug/L		92	17 - 168	15	87
Dibenz(a,h)anthracene	<0.19		19.1	18.9		ug/L		99	1 - 227	17	126
Fluoranthene	<0.19		19.1	18.2		ug/L		95	26 - 137	14	66
Fluorene	<0.19		19.1	17.8		ug/L		93	59 - 121	16	38
Indeno[1,2,3-cd]pyrene	<0.19		19.1	18.2		ug/L		95	1 - 171	17	99
Naphthalene	<0.19		19.1	13.9		ug/L		73	21 - 133	13	65
Phenanthrene	<0.19		19.1	17.4		ug/L		91	54 - 120	16	39
Pyrene	<0.19		19.1	17.8		ug/L		93	52 - 120	16	49

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	84		28 - 127
2-Fluorobiphenyl (Surr)	75		31 - 120
2-Fluorophenol (Surr)	54		17 - 120
Nitrobenzene-d5 (Surr)	67		27 - 120
Phenol-d6 (Surr)	36		10 - 120
p-Terphenyl-d14 (Surr)	81		45 - 120

QC Sample Results

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

Job ID: 380-163416-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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	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						

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						

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-163416-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

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

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

Lab Sample ID: MB 570-606522/1-A

Matrix: Water

Analysis Batch: 609191

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 606522

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<25		25	ug/L		08/04/25 10:22	08/09/25 09:01	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		08/04/25 10:22	08/09/25 09:01	1
C8-C18	<25		25	ug/L		08/04/25 10:22	08/09/25 09:01	1
Surrogate	%Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac		
n-Octacosane (Surr)	99		60 - 130	08/04/25 10:22	08/09/25 09:01	1		

Lab Sample ID: LCS 570-606522/2-A

Matrix: Water

Analysis Batch: 609191

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 606522

			Spike	LCS	LCS						
Analyte			Added	Result	Qualifier	Unit	D	%Rec	%Rec Limits		
C10-C28			1600	1490		ug/L		93	56 - 127		
	LCS	LCS									
Surrogate	%Recovery	Qualifier	Limits								
n-Octacosane (Surr)	98		60 - 130								

Lab Sample ID: LCSD 570-606522/3-A

Matrix: Water

Analysis Batch: 609191

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 606522

			Spike	LCSD	LCSD				%Rec	RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
C10-C28			1600	1510		ug/L		95	56 - 127	2	23
			LCSD	LCSD							
Surrogate	%Recovery	Qualifier	Limits								
n-Octacosane (Surr)	111		60 - 130								

Lab Sample ID: MRL 570-606522/4-A

Matrix: Water

Analysis Batch: 609191

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 606522

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28	0.0200	0.0271		mg/L		135	50 - 150		

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-163416-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

Lab Sample ID: MRL 570-606522/4-A
Matrix: Water
Analysis Batch: 609191

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 606522

	MRL	MRL	
Surrogate	%Recovery	Qualifier	Limits
n-Octacosane (Surr)	111		60 - 130

Lab Sample ID: 380-163427-B-1-A MS
Matrix: Water
Analysis Batch: 609191

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 606522

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
C10-C28	<26		1630	1560		ug/L		96	70 - 130	
	MS	MS								
Surrogate	%Recovery	Qualifier	Limits							
n-Octacosane (Surr)	108		60 - 130							

Lab Sample ID: 380-163427-B-1-B MSD
Matrix: Water
Analysis Batch: 609191

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 606522

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
C10-C28	<26		1610	1540		ug/L		95	70 - 130	2	20	
	MSD	MSD										
Surrogate	%Recovery	Qualifier	Limits									
n-Octacosane (Surr)	104		60 - 130									

QC Association Summary

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

Job ID: 380-163416-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

GC/MS Semi VOA

Prep Batch: 166346

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-163416-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	525.2	
380-163416-2	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	525.2	
MB 380-166346/21-A	Method Blank	Total/NA	Water	525.2	
LCS 380-166346/23-A	Lab Control Sample	Total/NA	Water	525.2	
LCSD 380-166346/24-A	Lab Control Sample Dup	Total/NA	Water	525.2	
MRL 380-166346/22-A	Lab Control Sample	Total/NA	Water	525.2	
380-163413-B-1-A MS	Matrix Spike	Total/NA	Water	525.2	
380-163413-B-3-A DU	Duplicate	Total/NA	Water	525.2	

Analysis Batch: 166488

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-163416-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	525.2	166346
380-163416-2	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	525.2	166346
MB 380-166346/21-A	Method Blank	Total/NA	Water	525.2	166346
LCS 380-166346/23-A	Lab Control Sample	Total/NA	Water	525.2	166346
LCSD 380-166346/24-A	Lab Control Sample Dup	Total/NA	Water	525.2	166346
MRL 380-166346/22-A	Lab Control Sample	Total/NA	Water	525.2	166346
380-163413-B-1-A MS	Matrix Spike	Total/NA	Water	525.2	166346
380-163413-B-3-A DU	Duplicate	Total/NA	Water	525.2	166346

Prep Batch: 605781

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-163416-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	625.1	
380-163416-2	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	625.1	
MB 570-605781/1-A	Method Blank	Total/NA	Water	625.1	
LCS 570-605781/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 570-605781/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	
380-163427-A-1-B MS	Matrix Spike	Total/NA	Water	625.1	
380-163427-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	625.1	

Analysis Batch: 610844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-163416-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	625.1 SIM	605781
380-163416-2	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	625.1 SIM	605781
MB 570-605781/1-A	Method Blank	Total/NA	Water	625.1 SIM	605781
LCS 570-605781/2-A	Lab Control Sample	Total/NA	Water	625.1 SIM	605781
LCSD 570-605781/3-A	Lab Control Sample Dup	Total/NA	Water	625.1 SIM	605781
380-163427-A-1-B MS	Matrix Spike	Total/NA	Water	625.1 SIM	605781
380-163427-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	625.1 SIM	605781

Analysis Batch: 611493

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-163416-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	625.1	605781
380-163416-2	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	625.1	605781

GC VOA

Analysis Batch: 606111

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-163416-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	8015B GRO LL	
380-163416-2	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	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: 380-163416-1
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
380-163416-3	TB:AIEA GULCH WELLS P1 (331-201-TP071)	Total/NA	Water	8015B GRO LL	
380-163416-4	TB:AIEA GULCH WELLS P2 (331-202-TP072)	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: 606522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-163416-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	3510C	
380-163416-2	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	3510C	
MB 570-606522/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-606522/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-606522/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-606522/4-A	Lab Control Sample	Total/NA	Water	3510C	
380-163427-B-1-A MS	Matrix Spike	Total/NA	Water	3510C	
380-163427-B-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

Analysis Batch: 609191

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-163416-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	8015B	606522
380-163416-2	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	8015B	606522
MB 570-606522/1-A	Method Blank	Total/NA	Water	8015B	606522
LCS 570-606522/2-A	Lab Control Sample	Total/NA	Water	8015B	606522
LCSD 570-606522/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	606522
MRL 570-606522/4-A	Lab Control Sample	Total/NA	Water	8015B	606522
380-163427-B-1-A MS	Matrix Spike	Total/NA	Water	8015B	606522
380-163427-B-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	8015B	606522

Lab Chronicle

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

Job ID: 380-163416-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

Lab Sample ID: 380-163416-1

Date Collected: 07/28/25 10:05

Matrix: Drinking Water

Date Received: 07/30/25 10:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			166346	OTM3	EA POM	08/01/25 11:31
Total/NA	Analysis	525.2		1	166488	Q8LA	EA POM	08/03/25 13:06
Total/NA	Prep	625.1			605781	H1SH	EET CAL 4	08/01/25 13:59
Total/NA	Analysis	625.1		1	611493	CG	EET CAL 4	08/14/25 12:44
Total/NA	Prep	625.1			605781	H1SH	EET CAL 4	08/01/25 13:59
Total/NA	Analysis	625.1 SIM		1	610844	PQS1	EET CAL 4	08/13/25 10:36
Total/NA	Analysis	8015B GRO LL		1	606111	W4LC	EET CAL 4	08/02/25 22:12
Total/NA	Prep	3510C			606522	TVD6	EET CAL 4	08/04/25 10:22
Total/NA	Analysis	8015B		1	609191	NR	EET CAL 4	08/09/25 11:56

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

Lab Sample ID: 380-163416-2

Date Collected: 07/28/25 10:24

Matrix: Drinking Water

Date Received: 07/30/25 10:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			166346	OTM3	EA POM	08/01/25 11:31
Total/NA	Analysis	525.2		1	166488	Q8LA	EA POM	08/03/25 13:26
Total/NA	Prep	625.1			605781	H1SH	EET CAL 4	08/01/25 13:59
Total/NA	Analysis	625.1		1	611493	CG	EET CAL 4	08/14/25 13:08
Total/NA	Prep	625.1			605781	H1SH	EET CAL 4	08/01/25 13:59
Total/NA	Analysis	625.1 SIM		1	610844	PQS1	EET CAL 4	08/13/25 10:58
Total/NA	Analysis	8015B GRO LL		1	606111	W4LC	EET CAL 4	08/02/25 21:50
Total/NA	Prep	3510C			606522	TVD6	EET CAL 4	08/04/25 10:22
Total/NA	Analysis	8015B		1	609191	NR	EET CAL 4	08/09/25 12:18

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

Lab Sample ID: 380-163416-3

Date Collected: 07/28/25 10:05

Matrix: Water

Date Received: 07/30/25 10:13

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	08/03/25 02:13

Client Sample ID: TB:AIEA GULCH WELLS P2 (331-202-TP072)

Lab Sample ID: 380-163416-4

Date Collected: 07/28/25 10:24

Matrix: Water

Date Received: 07/30/25 10:13

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	08/03/25 02:35

Laboratory References:

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

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

Eurofins Eaton Analytical Pomona

Accreditation/Certification Summary

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

Job ID: 380-163416-1
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

Eurofins Eaton Analytical Pomona

Accreditation/Certification Summary

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

Job ID: 380-163416-1
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
California	State	3082	07-31-26
Kansas	NELAP	E-10420	07-31-26
Nevada	State	CA00111	07-31-26
Oregon	NELAP	4175	02-02-26
USDA	US Federal Programs	525-23-159-97150	06-08-26
Utah	NELAP	CA00111	02-28-26
Washington	State	C916	10-11-25

Method Summary

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

Job ID: 380-163416-1
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: 380-163416-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	PWSID Number
380-163416-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Drinking Water	07/28/25 10:05	07/30/25 10:13	HI0000331
380-163416-2	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Drinking Water	07/28/25 10:24	07/30/25 10:13	HI0000331
380-163416-3	TB:AIEA GULCH WELLS P1 (331-201-TP071)	Water	07/28/25 10:05	07/30/25 10:13	
380-163416-4	TB:AIEA GULCH WELLS P2 (331-202-TP072)	Water	07/28/25 10:24	07/30/25 10:13	



Environment Testing

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

Chain of Custody Record



Environ

Loc: 380

163416

[illegible]

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-163416-1

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

Login Number: 163416

List Number: 1

Creator: Ngo, Theodore

List Source: Eurofins Eaton Analytical Pomona

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

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-163416-1

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

Login Number: 163416

List Source: Eurofins Calscience

List Number: 2

List Creation: 07/31/25 03:29 PM

Creator: Khana, Piyush

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	1.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	False	