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ANALYTICAL REPORT

PREPARED FOR

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Honolulu, Hawaii 96843

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JOB DESCRIPTION

RED-HILL
Weekly: Aiea Gulch Wells Pump1/Pump 2

JOB NUMBER

380-171885-1

Eurofins Eaton Analytical Pomona
941 Corporate Center Drive
Pomona CA 91768-2642

See page two for job notes and contact information.

Job Notes

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

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

Compliance Statement

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

Authorization

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Authorized for release by
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Definitions/Glossary

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

Job ID: 380-171885-1
SDG: Weekly: Aiea Gulch Wells Pump1/Pump 2

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA TICs

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

GC Semi VOA

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

Glossary

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

Job Narrative
380-171885-1

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 9/17/2025 9:33 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.1°C.

GC/MS Semi VOA
Method 625.1_SIM: The laboratory control sample (LCS) for preparation batch 570-627171 and analytical batch 570-630004 recovered outside control limits for the following analytes: Fluorene and Pyrene.
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.

Detection Summary

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

Job ID: 380-171885-1
SDG: Weekly: Aiea Gulch Wells Pump1/Pump 2

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

Lab Sample ID: 380-171885-1

No Detections.

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

Lab Sample ID: 380-171885-2

No Detections.

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

Lab Sample ID: 380-171885-3

No Detections.

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

Lab Sample ID: 380-171885-4

No Detections.

This Detection Summary does not include radiochemical test results.

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

Job ID: 380-171885-1
SDG: Weekly: Aiea Gulch Wells Pump1/Pump 2

Client Sample ID: AIEA GULCH WELLS PUMP 1 (331-201-TP071)
Date Collected: 09/15/25 11:01
Date Received: 09/17/25 09:33

Lab Sample ID: 380-171885-1
Matrix: Drinking Water
PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.099		0.099		ug/L		09/22/25 11:12	09/23/25 13:11	1
2,4'-DDD	<0.099		0.099		ug/L		09/22/25 11:12	09/23/25 13:11	1
2,4'-DDE	<0.099		0.099		ug/L		09/22/25 11:12	09/23/25 13:11	1
2,4'-DDT	<0.099		0.099		ug/L		09/22/25 11:12	09/23/25 13:11	1
2,4-Dinitrotoluene	<0.099		0.099		ug/L		09/22/25 11:12	09/23/25 13:11	1
2,6-Dinitrotoluene	<0.099		0.099		ug/L		09/22/25 11:12	09/23/25 13:11	1
2-Methylnaphthalene	<0.099		0.099		ug/L		09/22/25 11:12	09/23/25 13:11	1
4,4'-DDD	<0.099		0.099		ug/L		09/22/25 11:12	09/23/25 13:11	1
4,4'-DDE	<0.099		0.099		ug/L		09/22/25 11:12	09/23/25 13:11	1
4,4'-DDT	<0.099		0.099		ug/L		09/22/25 11:12	09/23/25 13:11	1
Acenaphthene	<0.099		0.099		ug/L		09/22/25 11:12	09/23/25 13:11	1
Acenaphthylene	<0.099		0.099		ug/L		09/22/25 11:12	09/23/25 13:11	1
Acetochlor	<0.099		0.099		ug/L		09/22/25 11:12	09/23/25 13:11	1
Alachlor	<0.049		0.049		ug/L		09/22/25 11:12	09/23/25 13:11	1
alpha-BHC	<0.099		0.099		ug/L		09/22/25 11:12	09/23/25 13:11	1
alpha-Chlordane	<0.049		0.049		ug/L		09/22/25 11:12	09/23/25 13:11	1
Anthracene	<0.020		0.020		ug/L		09/22/25 11:12	09/23/25 13:11	1
Atrazine	<0.049		0.049		ug/L		09/22/25 11:12	09/23/25 13:11	1
Benz(a)anthracene	<0.049		0.049		ug/L		09/22/25 11:12	09/23/25 13:11	1
Benzo[a]pyrene	<0.020		0.020		ug/L		09/22/25 11:12	09/23/25 13:11	1
Benzo[b]fluoranthene	<0.020		0.020		ug/L		09/22/25 11:12	09/23/25 13:11	1
Benzo[g,h,i]perylene	<0.049		0.049		ug/L		09/22/25 11:12	09/23/25 13:11	1
Benzo[k]fluoranthene	<0.020		0.020		ug/L		09/22/25 11:12	09/23/25 13:11	1
beta-BHC	<0.099		0.099		ug/L		09/22/25 11:12	09/23/25 13:11	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59		ug/L		09/22/25 11:12	09/23/25 13:11	1
Bromacil	<0.099		0.099		ug/L		09/22/25 11:12	09/23/25 13:11	1
Butachlor	<0.049		0.049		ug/L		09/22/25 11:12	09/23/25 13:11	1
Butylbenzylphthalate	<0.49		0.49		ug/L		09/22/25 11:12	09/23/25 13:11	1
Chlorobenzilate	<0.099		0.099		ug/L		09/22/25 11:12	09/23/25 13:11	1
Chloroneb	<0.099		0.099		ug/L		09/22/25 11:12	09/23/25 13:11	1
Chlorothalonil (Draconil, Bravo)	<0.099		0.099		ug/L		09/22/25 11:12	09/23/25 13:11	1
Chlorpyrifos	<0.049		0.049		ug/L		09/22/25 11:12	09/23/25 13:11	1
Chrysene	<0.020		0.020		ug/L		09/22/25 11:12	09/23/25 13:11	1
delta-BHC	<0.099		0.099		ug/L		09/22/25 11:12	09/23/25 13:11	1
Di(2-ethylhexyl)adipate	<0.59		0.59		ug/L		09/22/25 11:12	09/23/25 13:11	1
Dibenz(a,h)anthracene	<0.049		0.049		ug/L		09/22/25 11:12	09/23/25 13:11	1
Diclorvos (DDVP)	<0.049		0.049		ug/L		09/22/25 11:12	09/23/25 13:11	1
Dieldrin	<0.0099		0.0099		ug/L		09/22/25 11:12	09/23/25 13:11	1
Diethylphthalate	<0.49		0.49		ug/L		09/22/25 11:12	09/23/25 13:11	1
Dimethylphthalate	<0.49		0.49		ug/L		09/22/25 11:12	09/23/25 13:11	1
Di-n-butyl phthalate	<0.99		0.99		ug/L		09/22/25 11:12	09/23/25 13:11	1
Di-n-octyl phthalate	<0.099		0.099		ug/L		09/22/25 11:12	09/23/25 13:11	1
Endosulfan I (Alpha)	<0.099		0.099		ug/L		09/22/25 11:12	09/23/25 13:11	1
Endosulfan II (Beta)	<0.099		0.099		ug/L		09/22/25 11:12	09/23/25 13:11	1
Endosulfan sulfate	<0.099		0.099		ug/L		09/22/25 11:12	09/23/25 13:11	1
Endrin	<0.0099		0.0099		ug/L		09/22/25 11:12	09/23/25 13:11	1
Endrin aldehyde	<0.099		0.099		ug/L		09/22/25 11:12	09/23/25 13:11	1
EPTC	<0.099		0.099		ug/L		09/22/25 11:12	09/23/25 13:11	1

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

Lab Sample ID: 380-171885-1

Date Collected: 09/15/25 11:01
Date Received: 09/17/25 09:33

Matrix: Drinking Water
PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.099		0.099		ug/L		09/22/25 11:12	09/23/25 13:11	1
Fluorene	<0.049		0.049		ug/L		09/22/25 11:12	09/23/25 13:11	1
gamma-Chlordane	<0.049		0.049		ug/L		09/22/25 11:12	09/23/25 13:11	1
Heptachlor	<0.0099		0.0099		ug/L		09/22/25 11:12	09/23/25 13:11	1
Heptachlor epoxide (isomer B)	<0.0099		0.0099		ug/L		09/22/25 11:12	09/23/25 13:11	1
Hexachlorobenzene	<0.049		0.049		ug/L		09/22/25 11:12	09/23/25 13:11	1
Hexachlorocyclopentadiene	<0.049		0.049		ug/L		09/22/25 11:12	09/23/25 13:11	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049		ug/L		09/22/25 11:12	09/23/25 13:11	1
Isophorone	<0.099		0.099		ug/L		09/22/25 11:12	09/23/25 13:11	1
Lindane	<0.0099		0.0099		ug/L		09/22/25 11:12	09/23/25 13:11	1
Malathion	<0.099		0.099		ug/L		09/22/25 11:12	09/23/25 13:11	1
Methoxychlor	<0.049		0.049		ug/L		09/22/25 11:12	09/23/25 13:11	1
Metolachlor	<0.049		0.049		ug/L		09/22/25 11:12	09/23/25 13:11	1
Molinate	<0.099		0.099		ug/L		09/22/25 11:12	09/23/25 13:11	1
Naphthalene	<0.099		0.099		ug/L		09/22/25 11:12	09/23/25 13:11	1
Parathion	<0.099		0.099		ug/L		09/22/25 11:12	09/23/25 13:11	1
Pendimethalin (Penoxaline)	<0.099		0.099		ug/L		09/22/25 11:12	09/23/25 13:11	1
Phenanthrene	<0.039		0.039		ug/L		09/22/25 11:12	09/23/25 13:11	1
Propachlor	<0.049		0.049		ug/L		09/22/25 11:12	09/23/25 13:11	1
Pyrene	<0.049		0.049		ug/L		09/22/25 11:12	09/23/25 13:11	1
Simazine	<0.049		0.049		ug/L		09/22/25 11:12	09/23/25 13:11	1
Terbacil	<0.099		0.099		ug/L		09/22/25 11:12	09/23/25 13:11	1
Terbuthylazine	<0.099		0.099		ug/L		09/22/25 11:12	09/23/25 13:11	1
Thiobencarb	<0.099		0.099		ug/L		09/22/25 11:12	09/23/25 13:11	1
Total Permethrin (mixed isomers)	<0.20		0.20		ug/L		09/22/25 11:12	09/23/25 13:11	1
trans-Nonachlor	<0.049		0.049		ug/L		09/22/25 11:12	09/23/25 13:11	1
Trifluralin	<0.099		0.099		ug/L		09/22/25 11:12	09/23/25 13:11	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*	*09/22/25 11:12*	*09/23/25 13:11*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Nitro-m-xylene	*97*		*70 - 130*	*09/22/25 11:12*	*09/23/25 13:11*	*1*
Perylene-d12	*90*		*70 - 130*	*09/22/25 11:12*	*09/23/25 13:11*	*1*
Triphenylphosphate	*107*		*70 - 130*	*09/22/25 11:12*	*09/23/25 13:11*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.19		0.19		ug/L		09/18/25 04:51	09/24/25 01:35	1
2-Methylnaphthalene	<0.19		0.19		ug/L		09/18/25 04:51	09/24/25 01:35	1
Acenaphthene	<0.19		0.19		ug/L		09/18/25 04:51	09/24/25 01:35	1
Acenaphthylene	<0.19		0.19		ug/L		09/18/25 04:51	09/24/25 01:35	1
Anthracene	<0.19		0.19		ug/L		09/18/25 04:51	09/24/25 01:35	1
Benzo[a]anthracene	<0.19		0.19		ug/L		09/18/25 04:51	09/24/25 01:35	1
Benzo[a]pyrene	<0.19		0.19		ug/L		09/18/25 04:51	09/24/25 01:35	1
Benzo[b]fluoranthene	<0.19		0.19		ug/L		09/18/25 04:51	09/24/25 01:35	1
Benzo[g,h,i]perylene	<0.19		0.19		ug/L		09/18/25 04:51	09/24/25 01:35	1
Benzo[k]fluoranthene	<0.19		0.19		ug/L		09/18/25 04:51	09/24/25 01:35	1
Chrysene	<0.19		0.19		ug/L		09/18/25 04:51	09/24/25 01:35	1

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

Lab Sample ID: 380-171885-1

Date Collected: 09/15/25 11:01
Date Received: 09/17/25 09:33

Matrix: Drinking Water
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		09/18/25 04:51	09/24/25 01:35	1
Fluoranthene	<0.19		0.19		ug/L		09/18/25 04:51	09/24/25 01:35	1
Fluorene	<0.19	*-	0.19		ug/L		09/18/25 04:51	09/24/25 01:35	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19		ug/L		09/18/25 04:51	09/24/25 01:35	1
Naphthalene	<0.19		0.19		ug/L		09/18/25 04:51	09/24/25 01:35	1
Phenanthrene	<0.19		0.19		ug/L		09/18/25 04:51	09/24/25 01:35	1
Pyrene	<0.19	*-	0.19		ug/L		09/18/25 04:51	09/24/25 01:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*86*		*28 - 127*	*09/18/25 04:51*	*09/24/25 01:35*	*1*
2-Fluorobiphenyl (Surr)	*80*		*31 - 120*	*09/18/25 04:51*	*09/24/25 01:35*	*1*
2-Fluorophenol (Surr)	*56*		*17 - 120*	*09/18/25 04:51*	*09/24/25 01:35*	*1*
Nitrobenzene-d5 (Surr)	*83*		*27 - 120*	*09/18/25 04:51*	*09/24/25 01:35*	*1*
Phenol-d6 (Surr)	*37*		*10 - 120*	*09/18/25 04:51*	*09/24/25 01:35*	*1*
p-Terphenyl-d14 (Surr)	*83*		*45 - 120*	*09/18/25 04:51*	*09/24/25 01:35*	*1*

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

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Cyclic octaatomic sulfur	*12*	*T J N*	*ug/L*		*9.93*	*10544-50-0*	*09/18/25 04:51*	*10/04/25 10:34*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*78*		*33 - 139*	*09/18/25 04:51*	*10/04/25 10:34*	*1*
2-Fluorobiphenyl (Surr)	*86*		*33 - 126*	*09/18/25 04:51*	*10/04/25 10:34*	*1*
2-Fluorophenol (Surr)	*57*		*12 - 120*	*09/18/25 04:51*	*10/04/25 10:34*	*1*
Nitrobenzene-d5 (Surr)	*108*		*36 - 120*	*09/18/25 04:51*	*10/04/25 10:34*	*1*
Phenol-d6 (Surr)	*36*		*10 - 120*	*09/18/25 04:51*	*10/04/25 10:34*	*1*
p-Terphenyl-d14 (Surr)	*85*		*47 - 131*	*09/18/25 04:51*	*10/04/25 10:34*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	<10		10		ug/L			09/22/25 13:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*38 - 134*		*09/22/25 13:15*	*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		09/20/25 10:16	09/29/25 03:47	1
Motor Oil Range Organics [C24-C36]	<26		26		ug/L		09/20/25 10:16	09/29/25 03:47	1
C8-C18	<26		26		ug/L		09/20/25 10:16	09/29/25 03:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*94*		*60 - 130*	*09/20/25 10:16*	*09/29/25 03:47*	*1*

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

Lab Sample ID: 380-171885-2
Date Collected: 09/15/25 11:01
Matrix: Water
Date Received: 09/17/25 09:33

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	<10		10		ug/L			09/22/25 15:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*38 - 134*		*09/22/25 15:57*	*1*

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

Lab Sample ID: 380-171885-3
Date Collected: 09/15/25 11:20
Matrix: Drinking Water
Date Received: 09/17/25 09:33
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		09/22/25 11:12	09/23/25 13:52	1
2,4'-DDD	<0.098		0.098		ug/L		09/22/25 11:12	09/23/25 13:52	1
2,4'-DDE	<0.098		0.098		ug/L		09/22/25 11:12	09/23/25 13:52	1
2,4'-DDT	<0.098		0.098		ug/L		09/22/25 11:12	09/23/25 13:52	1
2,4-Dinitrotoluene	<0.098		0.098		ug/L		09/22/25 11:12	09/23/25 13:52	1
2,6-Dinitrotoluene	<0.098		0.098		ug/L		09/22/25 11:12	09/23/25 13:52	1
2-Methylnaphthalene	<0.098		0.098		ug/L		09/22/25 11:12	09/23/25 13:52	1
4,4'-DDD	<0.098		0.098		ug/L		09/22/25 11:12	09/23/25 13:52	1
4,4'-DDE	<0.098		0.098		ug/L		09/22/25 11:12	09/23/25 13:52	1
4,4'-DDT	<0.098		0.098		ug/L		09/22/25 11:12	09/23/25 13:52	1
Acenaphthene	<0.098		0.098		ug/L		09/22/25 11:12	09/23/25 13:52	1
Acenaphthylene	<0.098		0.098		ug/L		09/22/25 11:12	09/23/25 13:52	1
Acetochlor	<0.098		0.098		ug/L		09/22/25 11:12	09/23/25 13:52	1
Alachlor	<0.049		0.049		ug/L		09/22/25 11:12	09/23/25 13:52	1
alpha-BHC	<0.098		0.098		ug/L		09/22/25 11:12	09/23/25 13:52	1
alpha-Chlordane	<0.049		0.049		ug/L		09/22/25 11:12	09/23/25 13:52	1
Anthracene	<0.020		0.020		ug/L		09/22/25 11:12	09/23/25 13:52	1
Atrazine	<0.049		0.049		ug/L		09/22/25 11:12	09/23/25 13:52	1
Benz(a)anthracene	<0.049		0.049		ug/L		09/22/25 11:12	09/23/25 13:52	1
Benzo[a]pyrene	<0.020		0.020		ug/L		09/22/25 11:12	09/23/25 13:52	1
Benzo[b]fluoranthene	<0.020		0.020		ug/L		09/22/25 11:12	09/23/25 13:52	1
Benzo[g,h,i]perylene	<0.049		0.049		ug/L		09/22/25 11:12	09/23/25 13:52	1
Benzo[k]fluoranthene	<0.020		0.020		ug/L		09/22/25 11:12	09/23/25 13:52	1
beta-BHC	<0.098		0.098		ug/L		09/22/25 11:12	09/23/25 13:52	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59		ug/L		09/22/25 11:12	09/23/25 13:52	1
Bromacil	<0.098		0.098		ug/L		09/22/25 11:12	09/23/25 13:52	1
Butachlor	<0.049		0.049		ug/L		09/22/25 11:12	09/23/25 13:52	1
Butylbenzylphthalate	<0.49		0.49		ug/L		09/22/25 11:12	09/23/25 13:52	1
Chlorobenzilate	<0.098		0.098		ug/L		09/22/25 11:12	09/23/25 13:52	1
Chloroneb	<0.098		0.098		ug/L		09/22/25 11:12	09/23/25 13:52	1
Chlorothalonil (Draconil, Bravo)	<0.098		0.098		ug/L		09/22/25 11:12	09/23/25 13:52	1
Chlorpyrifos	<0.049		0.049		ug/L		09/22/25 11:12	09/23/25 13:52	1
Chrysene	<0.020		0.020		ug/L		09/22/25 11:12	09/23/25 13:52	1
delta-BHC	<0.098		0.098		ug/L		09/22/25 11:12	09/23/25 13:52	1
Di(2-ethylhexyl)adipate	<0.59		0.59		ug/L		09/22/25 11:12	09/23/25 13:52	1
Dibenz(a,h)anthracene	<0.049		0.049		ug/L		09/22/25 11:12	09/23/25 13:52	1
Diclorvos (DDVP)	<0.049		0.049		ug/L		09/22/25 11:12	09/23/25 13:52	1
Dieldrin	<0.0098		0.0098		ug/L		09/22/25 11:12	09/23/25 13:52	1

Client Sample ID: AIEA GULCH WELLS PUMP 2 (331-202-TP072)
Date Collected: 09/15/25 11:20
Date Received: 09/17/25 09:33

Lab Sample ID: 380-171885-3
Matrix: Drinking Water
PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diethylphthalate	<0.49		0.49		ug/L		09/22/25 11:12	09/23/25 13:52	1
Dimethylphthalate	<0.49		0.49		ug/L		09/22/25 11:12	09/23/25 13:52	1
Di-n-butyl phthalate	<0.98		0.98		ug/L		09/22/25 11:12	09/23/25 13:52	1
Di-n-octyl phthalate	<0.098		0.098		ug/L		09/22/25 11:12	09/23/25 13:52	1
Endosulfan I (Alpha)	<0.098		0.098		ug/L		09/22/25 11:12	09/23/25 13:52	1
Endosulfan II (Beta)	<0.098		0.098		ug/L		09/22/25 11:12	09/23/25 13:52	1
Endosulfan sulfate	<0.098		0.098		ug/L		09/22/25 11:12	09/23/25 13:52	1
Endrin	<0.0098		0.0098		ug/L		09/22/25 11:12	09/23/25 13:52	1
Endrin aldehyde	<0.098		0.098		ug/L		09/22/25 11:12	09/23/25 13:52	1
EPTC	<0.098		0.098		ug/L		09/22/25 11:12	09/23/25 13:52	1
Fluoranthene	<0.098		0.098		ug/L		09/22/25 11:12	09/23/25 13:52	1
Fluorene	<0.049		0.049		ug/L		09/22/25 11:12	09/23/25 13:52	1
gamma-Chlordane	<0.049		0.049		ug/L		09/22/25 11:12	09/23/25 13:52	1
Heptachlor	<0.0098		0.0098		ug/L		09/22/25 11:12	09/23/25 13:52	1
Heptachlor epoxide (isomer B)	<0.0098		0.0098		ug/L		09/22/25 11:12	09/23/25 13:52	1
Hexachlorobenzene	<0.049		0.049		ug/L		09/22/25 11:12	09/23/25 13:52	1
Hexachlorocyclopentadiene	<0.049		0.049		ug/L		09/22/25 11:12	09/23/25 13:52	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049		ug/L		09/22/25 11:12	09/23/25 13:52	1
Isophorone	<0.098		0.098		ug/L		09/22/25 11:12	09/23/25 13:52	1
Lindane	<0.0098		0.0098		ug/L		09/22/25 11:12	09/23/25 13:52	1
Malathion	<0.098		0.098		ug/L		09/22/25 11:12	09/23/25 13:52	1
Methoxychlor	<0.049		0.049		ug/L		09/22/25 11:12	09/23/25 13:52	1
Metolachlor	<0.049		0.049		ug/L		09/22/25 11:12	09/23/25 13:52	1
Molinate	<0.098		0.098		ug/L		09/22/25 11:12	09/23/25 13:52	1
Naphthalene	<0.098		0.098		ug/L		09/22/25 11:12	09/23/25 13:52	1
Parathion	<0.098		0.098		ug/L		09/22/25 11:12	09/23/25 13:52	1
Pendimethalin (Penoxaline)	<0.098		0.098		ug/L		09/22/25 11:12	09/23/25 13:52	1
Phenanthrene	<0.039		0.039		ug/L		09/22/25 11:12	09/23/25 13:52	1
Propachlor	<0.049		0.049		ug/L		09/22/25 11:12	09/23/25 13:52	1
Pyrene	<0.049		0.049		ug/L		09/22/25 11:12	09/23/25 13:52	1
Simazine	<0.049		0.049		ug/L		09/22/25 11:12	09/23/25 13:52	1
Terbacil	<0.098		0.098		ug/L		09/22/25 11:12	09/23/25 13:52	1
Terbuthylazine	<0.098		0.098		ug/L		09/22/25 11:12	09/23/25 13:52	1
Thiobencarb	<0.098		0.098		ug/L		09/22/25 11:12	09/23/25 13:52	1
Total Permethrin (mixed isomers)	<0.20		0.20		ug/L		09/22/25 11:12	09/23/25 13:52	1
trans-Nonachlor	<0.049		0.049		ug/L		09/22/25 11:12	09/23/25 13:52	1
Trifluralin	<0.098		0.098		ug/L		09/22/25 11:12	09/23/25 13:52	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*	*09/22/25 11:12*	*09/23/25 13:52*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Nitro-m-xylene	*97*		*70 - 130*	*09/22/25 11:12*	*09/23/25 13:52*	*1*
Perylene-d12	*90*		*70 - 130*	*09/22/25 11:12*	*09/23/25 13:52*	*1*
Triphenylphosphate	*106*		*70 - 130*	*09/22/25 11:12*	*09/23/25 13:52*	*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		09/18/25 04:51	09/24/25 01:58	1

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

Date Collected: 09/15/25 11:20
Date Received: 09/17/25 09:33

Lab Sample ID: 380-171885-3

Matrix: Drinking Water
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
2-Methylnaphthalene	<0.19		0.19		ug/L		09/18/25 04:51	09/24/25 01:58	1
Acenaphthene	<0.19		0.19		ug/L		09/18/25 04:51	09/24/25 01:58	1
Acenaphthylene	<0.19		0.19		ug/L		09/18/25 04:51	09/24/25 01:58	1
Anthracene	<0.19		0.19		ug/L		09/18/25 04:51	09/24/25 01:58	1
Benzo[a]anthracene	<0.19		0.19		ug/L		09/18/25 04:51	09/24/25 01:58	1
Benzo[a]pyrene	<0.19		0.19		ug/L		09/18/25 04:51	09/24/25 01:58	1
Benzo[b]fluoranthene	<0.19		0.19		ug/L		09/18/25 04:51	09/24/25 01:58	1
Benzo[g,h,i]perylene	<0.19		0.19		ug/L		09/18/25 04:51	09/24/25 01:58	1
Benzo[k]fluoranthene	<0.19		0.19		ug/L		09/18/25 04:51	09/24/25 01:58	1
Chrysene	<0.19		0.19		ug/L		09/18/25 04:51	09/24/25 01:58	1
Dibenz(a,h)anthracene	<0.19		0.19		ug/L		09/18/25 04:51	09/24/25 01:58	1
Fluoranthene	<0.19		0.19		ug/L		09/18/25 04:51	09/24/25 01:58	1
Fluorene	<0.19	*-	0.19		ug/L		09/18/25 04:51	09/24/25 01:58	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19		ug/L		09/18/25 04:51	09/24/25 01:58	1
Naphthalene	<0.19		0.19		ug/L		09/18/25 04:51	09/24/25 01:58	1
Phenanthrene	<0.19		0.19		ug/L		09/18/25 04:51	09/24/25 01:58	1
Pyrene	<0.19	*-	0.19		ug/L		09/18/25 04:51	09/24/25 01:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*84*		*28 - 127*	*09/18/25 04:51*	*09/24/25 01:58*	*1*
2-Fluorobiphenyl (Surr)	*77*		*31 - 120*	*09/18/25 04:51*	*09/24/25 01:58*	*1*
2-Fluorophenol (Surr)	*52*		*17 - 120*	*09/18/25 04:51*	*09/24/25 01:58*	*1*
Nitrobenzene-d5 (Surr)	*78*		*27 - 120*	*09/18/25 04:51*	*09/24/25 01:58*	*1*
Phenol-d6 (Surr)	*31*		*10 - 120*	*09/18/25 04:51*	*09/24/25 01:58*	*1*
p-Terphenyl-d14 (Surr)	*78*		*45 - 120*	*09/18/25 04:51*	*09/24/25 01:58*	*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*
Cyclic octaatomic sulfur	*12*	*T J N*	*ug/L*		*9.93*	*10544-50-0*	*09/18/25 04:51*	*10/04/25 11:01*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*67*		*33 - 139*	*09/18/25 04:51*	*10/04/25 11:01*	*1*
2-Fluorobiphenyl (Surr)	*76*		*33 - 126*	*09/18/25 04:51*	*10/04/25 11:01*	*1*
2-Fluorophenol (Surr)	*50*		*12 - 120*	*09/18/25 04:51*	*10/04/25 11:01*	*1*
Nitrobenzene-d5 (Surr)	*95*		*36 - 120*	*09/18/25 04:51*	*10/04/25 11:01*	*1*
Phenol-d6 (Surr)	*32*		*10 - 120*	*09/18/25 04:51*	*10/04/25 11:01*	*1*
p-Terphenyl-d14 (Surr)	*78*		*47 - 131*	*09/18/25 04:51*	*10/04/25 11:01*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	<10		10		ug/L			09/22/25 13:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*38 - 134*		*09/22/25 13:35*	*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		09/20/25 10:16	09/29/25 04:08	1
Motor Oil Range Organics [C24-C36]	<26		26		ug/L		09/20/25 10:16	09/29/25 04:08	1

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

Lab Sample ID: 380-171885-3

Date Collected: 09/15/25 11:20
Date Received: 09/17/25 09:33

Matrix: Drinking Water
PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C8-C18	<26		26		ug/L		09/20/25 10:16	09/29/25 04:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*89*		*60 - 130*	*09/20/25 10:16*	*09/29/25 04:08*	*1*

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

Lab Sample ID: 380-171885-4

Date Collected: 09/15/25 11:20
Date Received: 09/17/25 09:33

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	<10		10		ug/L			09/22/25 16:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*38 - 134*		*09/22/25 16:17*	*1*

Action Limit Summary

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

Job ID: 380-171885-1
SDG: Weekly: Aiea Gulch Wells Pump1/Pump 2

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

Lab Sample ID: 380-171885-1

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

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

Lab Sample ID: 380-171885-3

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: 380-171885-1
SDG: Weekly: Aiea Gulch Wells Pump1/Pump 2

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

Matrix: Drinking Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		2NMX	PRY	TPP
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)
380-171885-1	AIEA GULCH WELLS PUMP 1 (	97	90	107
380-171885-1 DU	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	99	90	97
380-171885-3	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	97	90	106

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**

		Percent Surrogate Recovery (Acceptance Limits)		
		2NMX	PRY	TPP
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)
380-171895-I-1-A MS	Matrix Spike	99	95	101
LCS 380-175529/22-A	Lab Control Sample	97	96	98
MB 380-175529/20-A	Method Blank	97	87	106
MRL 380-175529/21-A	Lab Control Sample	97	88	98

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**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL6	TPHd14
Lab Sample ID	Client Sample ID	(33-139)	(33-126)	(12-120)	(36-120)	(10-120)	(47-131)
380-171885-1	AIEA GULCH WELLS PUMP 1 (	78	86	57	108	36	85
380-171885-3	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	67	76	50	95	32	78

Surrogate Legend

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

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

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL6	TPHd14
Lab Sample ID	Client Sample ID	(33-139)	(33-126)	(12-120)	(36-120)	(10-120)	(47-131)
MB 570-627171/1-A	Method Blank	72	80	54	106	35	83

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**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL6	TPHd14
Lab Sample ID	Client Sample ID	(28-127)	(31-120)	(17-120)	(27-120)	(10-120)	(45-120)
380-171885-1	AIEA GULCH WELLS PUMP 1 (	86	80	56	83	37	83
380-171885-3	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	84	77	52	78	31	78

Surrogate Legend

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

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

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL6	TPHd14
Lab Sample ID	Client Sample ID	(28-127)	(31-120)	(17-120)	(27-120)	(10-120)	(45-120)
380-171895-A-1-A MS	Matrix Spike	79	74	54	65	36	76
380-171895-A-1-B MSD	Matrix Spike Duplicate	86	80	61	70	42	83
LCS 570-627171/2-A	Lab Control Sample	66	60	48	57	34	64
LCSD 570-627171/3-A	Lab Control Sample Dup	71	68	54	60	38	72
MB 570-627171/1-A	Method Blank	85	71	53	80	34	78

Surrogate Legend

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

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

Matrix: Drinking Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		BFB1
Lab Sample ID	Client Sample ID	(38-134)
380-171885-1	AIEA GULCH WELLS PUMP 1 (	91
380-171885-3	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	91

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

Surrogate Summary

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

Job ID: 380-171885-1
SDG: Weekly: Aiea Gulch Wells Pump1/Pump 2

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	BFB1 (38-134)
380-171885-2	TB:AIEA GULCH WELLS P1 (33	91
380-171885-4	TB:AIEA GULCH WELLS P2 (331-202-TP072)	92
380-171895-C-1 MS	Matrix Spike	97
380-171895-C-1 MSD	Matrix Spike Duplicate	95
LCS 570-628809/4	Lab Control Sample	94
LCSD 570 628809/5	Lab Control Sample Dup	91
MB 570-628809/6	Method Blank	97
MRL 570-628809/3	Lab Control Sample	88

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)
380-171885-1	AIEA GULCH WELLS PUMP 1 (	94
380-171885-3	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	89

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)
380-171895-B-1-A MS	Matrix Spike	96
380-171895-B-1-B MSD	Matrix Spike Duplicate	94
LCS 570-628483/2-A	Lab Control Sample	96
LCSD 570-628483/3-A	Lab Control Sample Dup	94
MB 570-628483/1-A	Method Blank	88
MRL 570-628483/4-A	Lab Control Sample	82

Surrogate Legend

OTCSN = n-Octacosane (Surr)

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

Lab Sample ID: MB 380-175529/20-A
Matrix: Water
Analysis Batch: 175685

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 175529

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.097		0.097		ug/L		09/22/25 11:12	09/23/25 12:31	1
2,4'-DDD	<0.097		0.097		ug/L		09/22/25 11:12	09/23/25 12:31	1
2,4'-DDE	<0.097		0.097		ug/L		09/22/25 11:12	09/23/25 12:31	1
2,4'-DDT	<0.097		0.097		ug/L		09/22/25 11:12	09/23/25 12:31	1
2,4-Dinitrotoluene	<0.097		0.097		ug/L		09/22/25 11:12	09/23/25 12:31	1
2,6-Dinitrotoluene	<0.097		0.097		ug/L		09/22/25 11:12	09/23/25 12:31	1
2-Methylnaphthalene	<0.097		0.097		ug/L		09/22/25 11:12	09/23/25 12:31	1
4,4'-DDD	<0.097		0.097		ug/L		09/22/25 11:12	09/23/25 12:31	1
4,4'-DDE	<0.097		0.097		ug/L		09/22/25 11:12	09/23/25 12:31	1
4,4'-DDT	<0.097		0.097		ug/L		09/22/25 11:12	09/23/25 12:31	1
Acenaphthene	<0.097		0.097		ug/L		09/22/25 11:12	09/23/25 12:31	1
Acenaphthylene	<0.097		0.097		ug/L		09/22/25 11:12	09/23/25 12:31	1
Acetochlor	<0.097		0.097		ug/L		09/22/25 11:12	09/23/25 12:31	1
Alachlor	<0.049		0.049		ug/L		09/22/25 11:12	09/23/25 12:31	1
alpha-BHC	<0.097		0.097		ug/L		09/22/25 11:12	09/23/25 12:31	1
alpha-Chlordane	<0.049		0.049		ug/L		09/22/25 11:12	09/23/25 12:31	1
Anthracene	<0.019		0.019		ug/L		09/22/25 11:12	09/23/25 12:31	1
Atrazine	<0.049		0.049		ug/L		09/22/25 11:12	09/23/25 12:31	1
Benz(a)anthracene	<0.049		0.049		ug/L		09/22/25 11:12	09/23/25 12:31	1
Benzo[a]pyrene	<0.019		0.019		ug/L		09/22/25 11:12	09/23/25 12:31	1
Benzo[b]fluoranthene	<0.019		0.019		ug/L		09/22/25 11:12	09/23/25 12:31	1
Benzo[g,h,i]perylene	<0.049		0.049		ug/L		09/22/25 11:12	09/23/25 12:31	1
Benzo[k]fluoranthene	<0.019		0.019		ug/L		09/22/25 11:12	09/23/25 12:31	1
beta-BHC	<0.097		0.097		ug/L		09/22/25 11:12	09/23/25 12:31	1
Bis(2-ethylhexyl) phthalate	<0.58		0.58		ug/L		09/22/25 11:12	09/23/25 12:31	1
Bromacil	<0.097		0.097		ug/L		09/22/25 11:12	09/23/25 12:31	1
Butachlor	<0.049		0.049		ug/L		09/22/25 11:12	09/23/25 12:31	1
Butylbenzylphthalate	<0.49		0.49		ug/L		09/22/25 11:12	09/23/25 12:31	1
Chlorobenzilate	<0.097		0.097		ug/L		09/22/25 11:12	09/23/25 12:31	1
Chloroneb	<0.097		0.097		ug/L		09/22/25 11:12	09/23/25 12:31	1
Chlorothalonil (Draconil, Bravo)	<0.097		0.097		ug/L		09/22/25 11:12	09/23/25 12:31	1
Chlorpyrifos	<0.049		0.049		ug/L		09/22/25 11:12	09/23/25 12:31	1
Chrysene	<0.019		0.019		ug/L		09/22/25 11:12	09/23/25 12:31	1
delta-BHC	<0.097		0.097		ug/L		09/22/25 11:12	09/23/25 12:31	1
Di(2-ethylhexyl)adipate	<0.58		0.58		ug/L		09/22/25 11:12	09/23/25 12:31	1
Dibenz(a,h)anthracene	<0.049		0.049		ug/L		09/22/25 11:12	09/23/25 12:31	1
Diclorvos (DDVP)	<0.049		0.049		ug/L		09/22/25 11:12	09/23/25 12:31	1
Dieldrin	<0.0097		0.0097		ug/L		09/22/25 11:12	09/23/25 12:31	1
Diethylphthalate	<0.49		0.49		ug/L		09/22/25 11:12	09/23/25 12:31	1
Dimethylphthalate	<0.49		0.49		ug/L		09/22/25 11:12	09/23/25 12:31	1
Di-n-butyl phthalate	<0.97		0.97		ug/L		09/22/25 11:12	09/23/25 12:31	1
Di-n-octyl phthalate	<0.097		0.097		ug/L		09/22/25 11:12	09/23/25 12:31	1
Endosulfan I (Alpha)	<0.097		0.097		ug/L		09/22/25 11:12	09/23/25 12:31	1
Endosulfan II (Beta)	<0.097		0.097		ug/L		09/22/25 11:12	09/23/25 12:31	1
Endosulfan sulfate	<0.097		0.097		ug/L		09/22/25 11:12	09/23/25 12:31	1
Endrin	<0.0097		0.0097		ug/L		09/22/25 11:12	09/23/25 12:31	1
Endrin aldehyde	<0.097		0.097		ug/L		09/22/25 11:12	09/23/25 12:31	1
EPTC	<0.097		0.097		ug/L		09/22/25 11:12	09/23/25 12:31	1

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

Lab Sample ID: MB 380-175529/20-A
Matrix: Water
Analysis Batch: 175685

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 175529

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.097		0.097		ug/L		09/22/25 11:12	09/23/25 12:31	1
Fluorene	<0.049		0.049		ug/L		09/22/25 11:12	09/23/25 12:31	1
gamma-Chlordane	<0.049		0.049		ug/L		09/22/25 11:12	09/23/25 12:31	1
Heptachlor	<0.0097		0.0097		ug/L		09/22/25 11:12	09/23/25 12:31	1
Heptachlor epoxide (isomer B)	<0.0097		0.0097		ug/L		09/22/25 11:12	09/23/25 12:31	1
Hexachlorobenzene	<0.049		0.049		ug/L		09/22/25 11:12	09/23/25 12:31	1
Hexachlorocyclopentadiene	<0.049		0.049		ug/L		09/22/25 11:12	09/23/25 12:31	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049		ug/L		09/22/25 11:12	09/23/25 12:31	1
Isophorone	<0.097		0.097		ug/L		09/22/25 11:12	09/23/25 12:31	1
Lindane	<0.0097		0.0097		ug/L		09/22/25 11:12	09/23/25 12:31	1
Malathion	<0.097		0.097		ug/L		09/22/25 11:12	09/23/25 12:31	1
Methoxychlor	<0.049		0.049		ug/L		09/22/25 11:12	09/23/25 12:31	1
Metolachlor	<0.049		0.049		ug/L		09/22/25 11:12	09/23/25 12:31	1
Molinate	<0.097		0.097		ug/L		09/22/25 11:12	09/23/25 12:31	1
Naphthalene	<0.097		0.097		ug/L		09/22/25 11:12	09/23/25 12:31	1
Parathion	<0.097		0.097		ug/L		09/22/25 11:12	09/23/25 12:31	1
Pendimethalin (Penoxaline)	<0.097		0.097		ug/L		09/22/25 11:12	09/23/25 12:31	1
Phenanthrene	<0.039		0.039		ug/L		09/22/25 11:12	09/23/25 12:31	1
Propachlor	<0.049		0.049		ug/L		09/22/25 11:12	09/23/25 12:31	1
Pyrene	<0.049		0.049		ug/L		09/22/25 11:12	09/23/25 12:31	1
Simazine	<0.049		0.049		ug/L		09/22/25 11:12	09/23/25 12:31	1
Terbacil	<0.097		0.097		ug/L		09/22/25 11:12	09/23/25 12:31	1
Terbuthylazine	<0.097		0.097		ug/L		09/22/25 11:12	09/23/25 12:31	1
Thiobencarb	<0.097		0.097		ug/L		09/22/25 11:12	09/23/25 12:31	1
Total Permethrin (mixed isomers)	<0.19		0.19		ug/L		09/22/25 11:12	09/23/25 12:31	1
trans-Nonachlor	<0.049		0.049		ug/L		09/22/25 11:12	09/23/25 12:31	1
Trifluralin	<0.097		0.097		ug/L		09/22/25 11:12	09/23/25 12:31	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Cyclopentene, 1,2,3,3,4-pentamethyl-	*0.843*	*T J N*	*ug/L*		*2.51*	*197390-29-7*	*09/22/25 11:12*	*09/23/25 12:31*	*1*
Decane	*2.06*	*T J N*	*ug/L*		*2.77*	*124-18-5*	*09/22/25 11:12*	*09/23/25 12:31*	*1*
9-Octadecenamide, (Z)-	*1.45*	*T J N*	*ug/L*		*7.89*	*301-02-0*	*09/22/25 11:12*	*09/23/25 12:31*	*1*
13-Docosenamide, (Z)-	*0.541*	*T J N*	*ug/L*		*10.43*	*112-84-5*	*09/22/25 11:12*	*09/23/25 12:31*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Nitro-m-xylene	*97*		*70 - 130*	*09/22/25 11:12*	*09/23/25 12:31*	*1*
Perylene-d12	*87*		*70 - 130*	*09/22/25 11:12*	*09/23/25 12:31*	*1*
Triphenylphosphate	*106*		*70 - 130*	*09/22/25 11:12*	*09/23/25 12:31*	*1*

Lab Sample ID: LCS 380-175529/22-A
Matrix: Water
Analysis Batch: 175685

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 175529

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	1.95	1.85		ug/L		95	70 - 130
2,4'-DDD	1.95	1.84		ug/L		95	70 - 130
2,4'-DDE	1.95	2.05		ug/L		105	70 - 130
2,4'-DDT	1.95	1.75		ug/L		90	70 - 130

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

Lab Sample ID: LCS 380-175529/22-A
Matrix: Water
Analysis Batch: 175685

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 175529

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4-Dinitrotoluene	1.95	1.77		ug/L		91	70 - 130
2,6-Dinitrotoluene	1.95	1.82		ug/L		93	70 - 130
2-Methylnaphthalene	1.95	1.89		ug/L		97	70 - 130
4,4'-DDD	1.95	1.90		ug/L		97	70 - 130
4,4'-DDE	1.95	1.81		ug/L		93	70 - 130
4,4'-DDT	1.95	1.77		ug/L		91	70 - 130
Acenaphthene	1.95	1.96		ug/L		100	70 - 130
Acenaphthylene	1.95	1.82		ug/L		93	70 - 130
Acetochlor	1.95	2.02		ug/L		104	70 - 130
Alachlor	1.95	2.12		ug/L		109	70 - 130
alpha-BHC	1.95	2.03		ug/L		104	70 - 130
alpha-Chlordane	1.95	1.81		ug/L		93	70 - 130
Anthracene	1.95	1.80		ug/L		92	70 - 130
Atrazine	1.95	1.97		ug/L		101	70 - 130
Benz(a)anthracene	1.95	1.89		ug/L		97	70 - 130
Benzo[a]pyrene	1.95	2.02		ug/L		104	70 - 130
Benzo[b]fluoranthene	1.95	2.02		ug/L		104	70 - 130
Benzo[g,h,i]perylene	1.95	1.89		ug/L		97	70 - 130
Benzo[k]fluoranthene	1.95	1.88		ug/L		97	70 - 130
beta-BHC	1.95	2.07		ug/L		106	70 - 130
Bis(2-ethylhexyl) phthalate	1.95	2.01		ug/L		103	70 - 130
Bromacil	1.95	1.88		ug/L		96	70 - 130
Butachlor	1.95	2.00		ug/L		103	70 - 130
Butylbenzylphthalate	1.95	2.21		ug/L		113	70 - 130
Chlorobenzilate	1.95	2.09		ug/L		107	70 - 130
Chloroneb	1.95	2.01		ug/L		103	70 - 130
Chlorothalonil (Draconil, Bravo)	1.95	1.86		ug/L		96	70 - 130
Chlorpyrifos	1.95	1.90		ug/L		98	70 - 130
Chrysene	1.95	1.94		ug/L		100	70 - 130
delta-BHC	1.95	1.99		ug/L		102	70 - 130
Di(2-ethylhexyl)adipate	1.95	1.97		ug/L		101	70 - 130
Dibenz(a,h)anthracene	1.95	1.88		ug/L		96	70 - 130
Diclorvos (DDVP)	1.95	2.03		ug/L		104	70 - 130
Dieldrin	1.95	2.04		ug/L		105	70 - 130
Diethylphthalate	1.95	2.11		ug/L		108	70 - 130
Dimethylphthalate	1.95	2.03		ug/L		104	70 - 130
Di-n-butyl phthalate	3.89	4.42		ug/L		114	70 - 130
Di-n-octyl phthalate	1.95	1.92		ug/L		98	70 - 130
Endosulfan I (Alpha)	1.95	2.02		ug/L		103	70 - 130
Endosulfan II (Beta)	1.95	2.00		ug/L		103	70 - 130
Endosulfan sulfate	1.95	1.92		ug/L		98	70 - 130
Endrin	1.95	2.03		ug/L		104	70 - 130
Endrin aldehyde	1.95	1.81		ug/L		93	60 - 130
EPTC	1.95	2.05		ug/L		105	70 - 130
Fluoranthene	1.95	1.96		ug/L		101	70 - 130
Fluorene	1.95	2.07		ug/L		106	70 - 130
gamma-Chlordane	1.95	1.83		ug/L		94	70 - 130
Heptachlor	1.95	2.00		ug/L		103	70 - 130
Heptachlor epoxide (isomer B)	1.95	1.96		ug/L		101	70 - 130

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

Lab Sample ID: LCS 380-175529/22-A
Matrix: Water
Analysis Batch: 175685

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 175529

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Hexachlorobenzene	1.95	1.90		ug/L		98	70 - 130
Hexachlorocyclopentadiene	1.95	1.76		ug/L		90	70 - 130
Indeno[1,2,3-cd]pyrene	1.95	1.86		ug/L		95	70 - 130
Isophorone	1.95	1.96		ug/L		101	70 - 130
Lindane	1.95	2.12		ug/L		109	70 - 130
Malathion	1.95	1.91		ug/L		98	70 - 130
Methoxychlor	1.95	1.96		ug/L		100	70 - 130
Metolachlor	1.95	1.97		ug/L		101	70 - 130
Molinate	1.95	2.08		ug/L		107	70 - 130
Naphthalene	1.95	1.94		ug/L		100	70 - 130
Parathion	1.95	1.95		ug/L		100	70 - 130
Pendimethalin (Penoxaline)	1.95	1.72		ug/L		88	70 - 130
Phenanthrene	1.95	1.95		ug/L		100	70 - 130
Propachlor	1.95	2.15		ug/L		110	70 - 130
Pyrene	1.95	1.89		ug/L		97	70 - 130
Simazine	1.95	1.97		ug/L		101	70 - 130
Terbacil	1.95	1.97		ug/L		101	70 - 130
Terbuthylazine	1.95	2.00		ug/L		103	70 - 130
Thiobencarb	1.95	1.91		ug/L		98	70 - 130
trans-Nonachlor	1.95	1.75		ug/L		90	70 - 130
Trifluralin	1.95	1.80		ug/L		92	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Nitro-m-xylene	*97*		*70 - 130*
Perylene-d12	*96*		*70 - 130*
Triphenylphosphate	*98*		*70 - 130*

Lab Sample ID: MRL 380-175529/21-A
Matrix: Water
Analysis Batch: 175685

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 175529

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	0.0972	0.106		ug/L		109	50 - 150
2,4'-DDD	0.0972	0.0901	J	ug/L		93	50 - 150
2,4'-DDE	0.0972	0.0973		ug/L		100	50 - 150
2,4'-DDT	0.0972	0.102		ug/L		105	50 - 150
2,4-Dinitrotoluene	0.0972	0.104		ug/L		107	50 - 150
2,6-Dinitrotoluene	0.0972	0.127		ug/L		130	50 - 150
2-Methylnaphthalene	0.0972	0.102		ug/L		104	50 - 150
4,4'-DDD	0.0972	0.107		ug/L		110	50 - 150
4,4'-DDE	0.0972	0.0999		ug/L		103	50 - 150
4,4'-DDT	0.0972	0.105		ug/L		108	50 - 150
Acenaphthene	0.0972	0.0907	J	ug/L		93	50 - 150
Acenaphthylene	0.0972	0.0895	J	ug/L		92	50 - 150
Acetochlor	0.0972	0.106		ug/L		110	50 - 150
Alachlor	0.0486	0.0484	J	ug/L		99	50 - 150
alpha-BHC	0.0972	0.0990		ug/L		102	50 - 150
alpha-Chlordane	0.0243	0.0323	J	ug/L		133	50 - 150

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

Lab Sample ID: MRL 380-175529/21-A
Matrix: Water
Analysis Batch: 175685

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 175529

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Anthracene	0.0194	0.0219		ug/L		112	50 - 150
Atrazine	0.0486	0.0647		ug/L		133	50 - 150
Benz(a)anthracene	0.0486	0.0447	J	ug/L		92	50 - 150
Benzo[a]pyrene	0.0194	0.0201		ug/L		103	50 - 150
Benzo[b]fluoranthene	0.0194	0.0227		ug/L		117	50 - 150
Benzo[g,h,i]perylene	0.0486	0.0548		ug/L		113	50 - 150
Benzo[k]fluoranthene	0.0194	0.0239		ug/L		123	50 - 150
beta-BHC	0.0972	0.104		ug/L		107	50 - 150
Bis(2-ethylhexyl) phthalate	0.583	0.606		ug/L		104	50 - 150
Bromacil	0.0972	0.117		ug/L		120	50 - 150
Butachlor	0.0486	0.0638		ug/L		131	50 - 150
Butylbenzylphthalate	0.486	0.565		ug/L		116	50 - 150
Chlorobenzilate	0.0972	0.0996		ug/L		102	50 - 150
Chloroneb	0.0972	0.0972		ug/L		100	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0972	0.102		ug/L		105	50 - 150
Chlorpyrifos	0.0486	0.0503		ug/L		104	50 - 150
Chrysene	0.0194	0.0201		ug/L		103	50 - 150
delta-BHC	0.0972	0.104		ug/L		107	50 - 150
Di(2-ethylhexyl)adipate	0.583	0.573	J	ug/L		98	50 - 150
Dibenz(a,h)anthracene	0.0486	0.0606		ug/L		125	50 - 150
Diclorvos (DDVP)	0.0486	0.0584		ug/L		120	50 - 150
Dieldrin	0.00972	0.0124		ug/L		127	50 - 150
Diethylphthalate	0.486	0.509		ug/L		105	50 - 150
Dimethylphthalate	0.486	0.514		ug/L		106	50 - 150
Di-n-butyl phthalate	0.486	0.611	J	ug/L		126	49 - 243
Di-n-octyl phthalate	0.0972	0.102		ug/L		105	50 - 150
Endosulfan I (Alpha)	0.0972	0.0859	J	ug/L		88	50 - 150
Endosulfan II (Beta)	0.0972	0.108		ug/L		111	50 - 150
Endosulfan sulfate	0.0972	0.0995		ug/L		102	50 - 150
Endrin	0.00972	0.00942	J	ug/L		97	50 - 150
Endrin aldehyde	0.0972	0.106		ug/L		109	50 - 150
EPTC	0.0972	0.0940	J	ug/L		97	50 - 150
Fluoranthene	0.0972	0.0974		ug/L		100	50 - 150
Fluorene	0.0486	0.0492		ug/L		101	50 - 150
gamma-Chlordane	0.0243	0.0318	J	ug/L		131	50 - 150
Heptachlor	0.00972	0.0112		ug/L		115	50 - 150
Heptachlor epoxide (isomer B)	0.00972	0.0103		ug/L		106	50 - 150
Hexachlorobenzene	0.0486	0.0455	J	ug/L		94	50 - 150
Hexachlorocyclopentadiene	0.0486	0.0477	J	ug/L		98	50 - 150
Indeno[1,2,3-cd]pyrene	0.0486	0.0679		ug/L		140	50 - 150
Isophorone	0.0972	0.109		ug/L		112	50 - 150
Lindane	0.00972	0.0113		ug/L		116	50 - 150
Malathion	0.0972	0.105		ug/L		108	50 - 150
Methoxychlor	0.0486	0.0722		ug/L		149	50 - 150
Metolachlor	0.0486	0.0572		ug/L		118	50 - 150
Molinate	0.0972	0.0986		ug/L		101	50 - 150
Naphthalene	0.0972	0.0971		ug/L		100	50 - 150
Parathion	0.0972	0.0989		ug/L		102	50 - 150
Pendimethalin (Penoxaline)	0.0972	0.0987		ug/L		101	50 - 150

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

Lab Sample ID: MRL 380-175529/21-A
Matrix: Water
Analysis Batch: 175685

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 175529

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Phenanthrene			0.0389	0.0409		ug/L		105	50 - 150		
Propachlor			0.0486	0.0525		ug/L		108	50 - 150		
Pyrene			0.0486	0.0498		ug/L		102	50 - 150		
Simazine			0.0486	0.0614		ug/L		126	50 - 150		
Terbacil			0.0972	0.103		ug/L		106	50 - 150		
Terbuthylazine			0.0972	0.105		ug/L		108	50 - 150		
Thiobencarb			0.0972	0.103		ug/L		106	50 - 150		
trans-Nonachlor			0.0243	0.0346	J	ug/L		142	50 - 150		
Trifluralin			0.0972	0.100		ug/L		103	50 - 150		

Surrogate	*MRL %Recovery*	*MRL Qualifier*	*Limits*
2-Nitro-m-xylene	*97*		*70 - 130*
Perylene-d12	*88*		*70 - 130*
Triphenylphosphate	*98*		*70 - 130*

Lab Sample ID: 380-171895-I-1-A MS
Matrix: Water
Analysis Batch: 175685

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 175529

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
1-Methylnaphthalene	<0.097		1.96	1.89		ug/L		96	70 - 130		
2,4'-DDD	<0.097		1.96	1.90		ug/L		97	70 - 130		
2,4'-DDE	<0.097		1.96	2.12		ug/L		108	70 - 130		
2,4'-DDT	<0.097		1.96	1.83		ug/L		94	70 - 130		
2,4-Dinitrotoluene	<0.097		1.96	1.92		ug/L		98	70 - 130		
2,6-Dinitrotoluene	<0.097		1.96	1.91		ug/L		98	70 - 130		
2-Methylnaphthalene	<0.097		1.96	1.91		ug/L		97	70 - 130		
4,4'-DDD	<0.097		1.96	1.97		ug/L		101	70 - 130		
4,4'-DDE	<0.097		1.96	1.86		ug/L		95	70 - 130		
4,4'-DDT	<0.097		1.96	1.89		ug/L		96	70 - 130		
Acenaphthene	<0.097		1.96	1.94		ug/L		99	70 - 130		
Acenaphthylene	<0.097		1.96	1.86		ug/L		95	70 - 130		
Acetochlor	<0.097		1.96	2.07		ug/L		105	70 - 130		
Alachlor	<0.049		1.96	2.18		ug/L		112	70 - 130		
alpha-BHC	<0.097		1.96	2.05		ug/L		105	70 - 130		
alpha-Chlordane	<0.049		1.96	1.83		ug/L		91	70 - 130		
Anthracene	<0.019	F1	1.96	1.12	F1	ug/L		57	70 - 130		
Atrazine	<0.049		1.96	2.03		ug/L		103	70 - 130		
Benz(a)anthracene	<0.049		1.96	1.94		ug/L		99	70 - 130		
Benzo[a]pyrene	<0.019		1.96	1.77		ug/L		90	70 - 130		
Benzo[b]fluoranthene	<0.019		1.96	1.97		ug/L		101	70 - 130		
Benzo[g,h,i]perylene	<0.049		1.96	1.87		ug/L		95	70 - 130		
Benzo[k]fluoranthene	<0.019		1.96	1.87		ug/L		96	70 - 130		
beta-BHC	<0.097		1.96	2.11		ug/L		108	70 - 130		
Bis(2-ethylhexyl) phthalate	<0.58		1.96	2.07		ug/L		106	70 - 130		
Bromacil	<0.097		1.96	2.05		ug/L		101	70 - 130		
Butachlor	<0.049		1.96	2.02		ug/L		103	70 - 130		
Butylbenzylphthalate	<0.49		1.96	2.31		ug/L		118	70 - 130		

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

Lab Sample ID: 380-171895-I-1-A MS
Matrix: Water
Analysis Batch: 175685

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 175529

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chlorobenzilate	<0.097		1.96	2.19		ug/L		112	70 - 130
Chloroneb	<0.097		1.96	2.08		ug/L		106	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.097		1.96	1.91		ug/L		97	70 - 130
Chlorpyrifos	<0.049		1.96	1.98		ug/L		101	70 - 130
Chrysene	<0.019		1.96	1.94		ug/L		99	70 - 130
delta-BHC	<0.097		1.96	2.01		ug/L		103	70 - 130
Di(2-ethylhexyl)adipate	<0.58		1.96	2.15		ug/L		110	70 - 130
Dibenz(a,h)anthracene	<0.049		1.96	1.99		ug/L		102	70 - 130
Diclorvos (DDVP)	<0.049		1.96	2.10		ug/L		107	70 - 130
Dieldrin	0.040		1.96	2.08		ug/L		104	70 - 130
Diethylphthalate	<0.49		1.96	2.12		ug/L		108	70 - 130
Dimethylphthalate	<0.49		1.96	2.10		ug/L		107	70 - 130
Di-n-butyl phthalate	<0.97		3.92	4.92		ug/L		126	70 - 130
Di-n-octyl phthalate	<0.097		1.96	2.01		ug/L		102	70 - 130
Endosulfan I (Alpha)	<0.097		1.96	2.06		ug/L		105	70 - 130
Endosulfan II (Beta)	<0.097		1.96	2.13		ug/L		109	70 - 130
Endosulfan sulfate	<0.097		1.96	1.96		ug/L		100	70 - 130
Endrin	<0.0097		1.96	2.06		ug/L		105	70 - 130
Endrin aldehyde	<0.097		1.96	1.78		ug/L		91	60 - 130
EPTC	<0.097		1.96	2.08		ug/L		106	70 - 130
Fluoranthene	<0.097		1.96	1.99		ug/L		102	70 - 130
Fluorene	<0.049		1.96	2.10		ug/L		107	70 - 130
gamma-Chlordane	<0.049		1.96	1.92		ug/L		97	70 - 130
Heptachlor	<0.0097		1.96	2.06		ug/L		105	70 - 130
Heptachlor epoxide (isomer B)	0.014		1.96	2.00		ug/L		101	70 - 130
Hexachlorobenzene	<0.049		1.96	1.88		ug/L		96	70 - 130
Hexachlorocyclopentadiene	<0.049		1.96	1.86		ug/L		95	70 - 130
Indeno[1,2,3-cd]pyrene	<0.049		1.96	1.97		ug/L		101	70 - 130
Isophorone	<0.097		1.96	1.96		ug/L		100	70 - 130
Lindane	<0.0097		1.96	2.17		ug/L		111	70 - 130
Malathion	<0.097		1.96	1.92		ug/L		98	70 - 130
Methoxychlor	<0.049		1.96	2.24		ug/L		115	70 - 130
Metolachlor	<0.049		1.96	2.00		ug/L		102	70 - 130
Molinate	<0.097		1.96	2.11		ug/L		108	70 - 130
Naphthalene	<0.097		1.96	1.97		ug/L		101	70 - 130
Parathion	<0.097		1.96	2.05		ug/L		105	70 - 130
Pendimethalin (Penoxaline)	<0.097		1.96	1.84		ug/L		94	70 - 130
Phenanthrene	<0.039		1.96	1.96		ug/L		100	70 - 130
Propachlor	<0.049		1.96	2.20		ug/L		113	70 - 130
Pyrene	<0.049		1.96	1.91		ug/L		97	70 - 130
Simazine	<0.049		1.96	2.03		ug/L		104	70 - 130
Terbacil	<0.097		1.96	2.11		ug/L		108	70 - 130
Terbuthylazine	<0.097		1.96	2.08		ug/L		106	70 - 130
Thiobencarb	<0.097		1.96	1.91		ug/L		98	70 - 130
trans-Nonachlor	<0.049		1.96	1.76		ug/L		89	70 - 130
Trifluralin	<0.097		1.96	1.89		ug/L		96	70 - 130

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

Lab Sample ID: 380-171895-I-1-A MS
Matrix: Water
Analysis Batch: 175685

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 175529

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Nitro-m-xylene	*99*		*70 - 130*
Perylene-d12	*95*		*70 - 130*
Triphenylphosphate	*101*		*70 - 130*

Lab Sample ID: 380-171885-1 DU
Matrix: Drinking Water
Analysis Batch: 175685

Client Sample ID: AIEA GULCH WELLS PUMP 1 (331-201-TP071)
Prep Type: Total/NA
Prep Batch: 175529

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

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

Lab Sample ID: 380-171885-1 DU
Matrix: Drinking Water
Analysis Batch: 175685

Client Sample ID: AIEA GULCH WELLS PUMP 1 (331-201-TP071)
Prep Type: Total/NA
Prep Batch: 175529

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Dimethylphthalate	<0.49			<0.49		ug/L				NC	20
Di-n-butyl phthalate	<0.99			<0.98		ug/L				NC	20
Di-n-octyl phthalate	<0.099			<0.098		ug/L				NC	20
Endosulfan I (Alpha)	<0.099			<0.098		ug/L				NC	20
Endosulfan II (Beta)	<0.099			<0.098		ug/L				NC	20
Endosulfan sulfate	<0.099			<0.098		ug/L				NC	20
Endrin	<0.0099			<0.0098		ug/L				NC	20
Endrin aldehyde	<0.099			<0.098		ug/L				NC	20
EPTC	<0.099			<0.098		ug/L				NC	20
Fluoranthene	<0.099			<0.098		ug/L				NC	20
Fluorene	<0.049			<0.049		ug/L				NC	20
gamma-Chlordane	<0.049			<0.049		ug/L				NC	20
Heptachlor	<0.0099			<0.0098		ug/L				NC	20
Heptachlor epoxide (isomer B)	<0.0099			<0.0098		ug/L				NC	20
Hexachlorobenzene	<0.049			<0.049		ug/L				NC	20
Hexachlorocyclopentadiene	<0.049			<0.049		ug/L				NC	20
Indeno[1,2,3-cd]pyrene	<0.049			<0.049		ug/L				NC	20
Isophorone	<0.099			<0.098		ug/L				NC	20
Lindane	<0.0099			<0.0098		ug/L				NC	20
Malathion	<0.099			<0.098		ug/L				NC	20
Methoxychlor	<0.049			<0.049		ug/L				NC	20
Metolachlor	<0.049			<0.049		ug/L				NC	20
Molinate	<0.099			<0.098		ug/L				NC	20
Naphthalene	<0.099			<0.098		ug/L				NC	20
Parathion	<0.099			<0.098		ug/L				NC	20
Pendimethalin (Penoxaline)	<0.099			<0.098		ug/L				NC	20
Phenanthrene	<0.039			<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	<0.099			<0.098		ug/L				NC	20
Terbuthylazine	<0.099			<0.098		ug/L				NC	20
Thiobencarb	<0.099			<0.098		ug/L				NC	20
Total Permethrin (mixed isomers)	<0.20			<0.20		ug/L				NC	20
trans-Nonachlor	<0.049			<0.049		ug/L				NC	20
Trifluralin	<0.099			<0.098		ug/L				NC	20

Surrogate	*DU %Recovery*	*DU Qualifier*	*Limits*
2-Nitro-m-xylene	*99*		*70 - 130*
Perylene-d12	*90*		*70 - 130*
Triphenylphosphate	*97*		*70 - 130*

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

Lab Sample ID: MB 570-627171/1-A
Matrix: Water
Analysis Batch: 635518

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 627171

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	09/18/25 04:51	10/04/25 09:51	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	72		33 - 139	09/18/25 04:51	10/04/25 09:51	1
2-Fluorobiphenyl (Surr)	80		33 - 126	09/18/25 04:51	10/04/25 09:51	1
2-Fluorophenol (Surr)	54		12 - 120	09/18/25 04:51	10/04/25 09:51	1
Nitrobenzene-d5 (Surr)	106		36 - 120	09/18/25 04:51	10/04/25 09:51	1
Phenol-d6 (Surr)	35		10 - 120	09/18/25 04:51	10/04/25 09:51	1
p-Terphenyl-d14 (Surr)	83		47 - 131	09/18/25 04:51	10/04/25 09:51	1

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

Lab Sample ID: MB 570-627171/1-A
Matrix: Water
Analysis Batch: 630004

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 627171

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.20		0.20		ug/L		09/18/25 04:51	09/23/25 22:58	1
2-Methylnaphthalene	<0.20		0.20		ug/L		09/18/25 04:51	09/23/25 22:58	1
Acenaphthene	<0.20		0.20		ug/L		09/18/25 04:51	09/23/25 22:58	1
Acenaphthylene	<0.20		0.20		ug/L		09/18/25 04:51	09/23/25 22:58	1
Anthracene	<0.20		0.20		ug/L		09/18/25 04:51	09/23/25 22:58	1
Benzo[a]anthracene	<0.20		0.20		ug/L		09/18/25 04:51	09/23/25 22:58	1
Benzo[a]pyrene	<0.20		0.20		ug/L		09/18/25 04:51	09/23/25 22:58	1
Benzo[b]fluoranthene	<0.20		0.20		ug/L		09/18/25 04:51	09/23/25 22:58	1
Benzo[g,h,i]perylene	<0.20		0.20		ug/L		09/18/25 04:51	09/23/25 22:58	1
Benzo[k]fluoranthene	<0.20		0.20		ug/L		09/18/25 04:51	09/23/25 22:58	1
Chrysene	<0.20		0.20		ug/L		09/18/25 04:51	09/23/25 22:58	1
Dibenz(a,h)anthracene	<0.20		0.20		ug/L		09/18/25 04:51	09/23/25 22:58	1
Fluoranthene	<0.20		0.20		ug/L		09/18/25 04:51	09/23/25 22:58	1
Fluorene	<0.20		0.20		ug/L		09/18/25 04:51	09/23/25 22:58	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20		ug/L		09/18/25 04:51	09/23/25 22:58	1
Naphthalene	<0.20		0.20		ug/L		09/18/25 04:51	09/23/25 22:58	1
Phenanthrene	<0.20		0.20		ug/L		09/18/25 04:51	09/23/25 22:58	1
Pyrene	<0.20		0.20		ug/L		09/18/25 04:51	09/23/25 22:58	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	85		28 - 127	09/18/25 04:51	09/23/25 22:58	1
2-Fluorobiphenyl (Surr)	71		31 - 120	09/18/25 04:51	09/23/25 22:58	1
2-Fluorophenol (Surr)	53		17 - 120	09/18/25 04:51	09/23/25 22:58	1
Nitrobenzene-d5 (Surr)	80		27 - 120	09/18/25 04:51	09/23/25 22:58	1
Phenol-d6 (Surr)	34		10 - 120	09/18/25 04:51	09/23/25 22:58	1
p-Terphenyl-d14 (Surr)	78		45 - 120	09/18/25 04:51	09/23/25 22:58	1

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

Lab Sample ID: LCS 570-627171/2-A
Matrix: Water
Analysis Batch: 630004

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 627171

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	20.0	11.9		ug/L		60	47 - 120
2-Methylnaphthalene	20.0	11.7		ug/L		59	43 - 120
Acenaphthene	20.0	13.2		ug/L		66	60 - 132
Acenaphthylene	20.0	13.3		ug/L		67	54 - 126
Anthracene	20.0	13.5		ug/L		68	43 - 120
Benzo[a]anthracene	20.0	13.0		ug/L		65	42 - 133
Benzo[a]pyrene	20.0	13.2		ug/L		66	32 - 148
Benzo[b]fluoranthene	20.0	13.5		ug/L		67	42 - 140
Benzo[g,h,i]perylene	20.0	14.1		ug/L		70	1 - 195
Benzo[k]fluoranthene	20.0	13.9		ug/L		70	25 - 146
Chrysene	20.0	13.9		ug/L		69	44 - 140
Dibenz(a,h)anthracene	20.0	13.7		ug/L		69	1 - 200
Fluoranthene	20.0	14.2		ug/L		71	43 - 121
Fluorene	20.0	13.7	*-	ug/L		69	70 - 120
Indeno[1,2,3-cd]pyrene	20.0	12.9		ug/L		64	1 - 151
Naphthalene	20.0	11.6		ug/L		58	36 - 120
Phenanthrene	20.0	13.6		ug/L		68	65 - 120
Pyrene	20.0	13.3	*-	ug/L		67	70 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*66*		*28 - 127*
2-Fluorobiphenyl (Surr)	*60*		*31 - 120*
2-Fluorophenol (Surr)	*48*		*17 - 120*
Nitrobenzene-d5 (Surr)	*57*		*27 - 120*
Phenol-d6 (Surr)	*34*		*10 - 120*
p-Terphenyl-d14 (Surr)	*64*		*45 - 120*

Lab Sample ID: LCSD 570-627171/3-A
Matrix: Water
Analysis Batch: 630004

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 627171

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	20.0	13.2		ug/L		66	47 - 120	10	20
2-Methylnaphthalene	20.0	13.0		ug/L		65	43 - 120	11	20
Acenaphthene	20.0	14.9		ug/L		75	60 - 132	13	29
Acenaphthylene	20.0	14.9		ug/L		75	54 - 126	11	45
Anthracene	20.0	15.0		ug/L		75	43 - 120	10	40
Benzo[a]anthracene	20.0	14.6		ug/L		73	42 - 133	12	32
Benzo[a]pyrene	20.0	14.7		ug/L		73	32 - 148	10	43
Benzo[b]fluoranthene	20.0	14.9		ug/L		74	42 - 140	10	43
Benzo[g,h,i]perylene	20.0	15.8		ug/L		79	1 - 195	11	61
Benzo[k]fluoranthene	20.0	15.7		ug/L		78	25 - 146	12	38
Chrysene	20.0	15.6		ug/L		78	44 - 140	12	53
Dibenz(a,h)anthracene	20.0	15.8		ug/L		79	1 - 200	14	75
Fluoranthene	20.0	15.7		ug/L		78	43 - 121	10	40
Fluorene	20.0	15.3		ug/L		76	70 - 120	11	23
Indeno[1,2,3-cd]pyrene	20.0	14.4		ug/L		72	1 - 151	11	60
Naphthalene	20.0	12.6		ug/L		63	36 - 120	8	39

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

Lab Sample ID: LCSD 570-627171/3-A
Matrix: Water
Analysis Batch: 630004

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 627171

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenanthrene			20.0	15.2		ug/L		76	65 - 120	11	24
Pyrene			20.0	15.0		ug/L		75	70 - 120	12	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*71*		*28 - 127*
2-Fluorobiphenyl (Surr)	*68*		*31 - 120*
2-Fluorophenol (Surr)	*54*		*17 - 120*
Nitrobenzene-d5 (Surr)	*60*		*27 - 120*
Phenol-d6 (Surr)	*38*		*10 - 120*
p-Terphenyl-d14 (Surr)	*72*		*45 - 120*

Lab Sample ID: 380-171895-A-1-A MS
Matrix: Water
Analysis Batch: 630004

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 627171

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.19		19.1	13.6		ug/L		71	36 - 120
2-Methylnaphthalene	<0.19		19.1	13.5		ug/L		71	32 - 124
Acenaphthene	<0.19		19.1	15.4		ug/L		81	47 - 145
Acenaphthylene	<0.19		19.1	15.4		ug/L		81	33 - 145
Anthracene	<0.19		19.1	15.6		ug/L		82	27 - 133
Benzo[a]anthracene	<0.19		19.1	15.1		ug/L		79	33 - 143
Benzo[a]pyrene	<0.19		19.1	15.1		ug/L		79	17 - 163
Benzo[b]fluoranthene	<0.19		19.1	15.2		ug/L		79	24 - 159
Benzo[g,h,i]perylene	<0.19		19.1	15.8		ug/L		83	1 - 219
Benzo[k]fluoranthene	<0.19		19.1	16.1		ug/L		84	11 - 162
Chrysene	<0.19		19.1	15.9		ug/L		83	17 - 168
Dibenz(a,h)anthracene	<0.19		19.1	15.7		ug/L		82	1 - 227
Fluoranthene	<0.19		19.1	16.4		ug/L		86	26 - 137
Fluorene	<0.19	*-	19.1	16.1		ug/L		84	59 - 121
Indeno[1,2,3-cd]pyrene	<0.19		19.1	14.6		ug/L		76	1 - 171
Naphthalene	<0.19		19.1	13.6		ug/L		71	21 - 133
Phenanthrene	<0.19		19.1	15.8		ug/L		83	54 - 120
Pyrene	<0.19	*-	19.1	15.7		ug/L		82	52 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*79*		*28 - 127*
2-Fluorobiphenyl (Surr)	*74*		*31 - 120*
2-Fluorophenol (Surr)	*54*		*17 - 120*
Nitrobenzene-d5 (Surr)	*65*		*27 - 120*
Phenol-d6 (Surr)	*36*		*10 - 120*
p-Terphenyl-d14 (Surr)	*76*		*45 - 120*

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

Lab Sample ID: 380-171895-A-1-B MSD
Matrix: Water
Analysis Batch: 630004

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 627171

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	<0.19		19.2	14.8		ug/L		77	36 - 120	8	30
2-Methylnaphthalene	<0.19		19.2	14.4		ug/L		75	32 - 124	7	30
Acenaphthene	<0.19		19.2	16.7		ug/L		87	47 - 145	8	48
Acenaphthylene	<0.19		19.2	16.7		ug/L		87	33 - 145	8	74
Anthracene	<0.19		19.2	17.1		ug/L		89	27 - 133	9	66
Benzo[a]anthracene	<0.19		19.2	16.5		ug/L		86	33 - 143	9	53
Benzo[a]pyrene	<0.19		19.2	16.3		ug/L		85	17 - 163	8	72
Benzo[b]fluoranthene	<0.19		19.2	16.8		ug/L		88	24 - 159	10	71
Benzo[g,h,i]perylene	<0.19		19.2	17.5		ug/L		91	1 - 219	10	97
Benzo[k]fluoranthene	<0.19		19.2	17.1		ug/L		89	11 - 162	6	63
Chrysene	<0.19		19.2	17.4		ug/L		91	17 - 168	9	87
Dibenz(a,h)anthracene	<0.19		19.2	17.3		ug/L		90	1 - 227	10	126
Fluoranthene	<0.19		19.2	18.1		ug/L		95	26 - 137	10	66
Fluorene	<0.19	*-	19.2	17.4		ug/L		91	59 - 121	8	38
Indeno[1,2,3-cd]pyrene	<0.19		19.2	16.1		ug/L		84	1 - 171	10	99
Naphthalene	<0.19		19.2	13.9		ug/L		72	21 - 133	2	65
Phenanthrene	<0.19		19.2	17.4		ug/L		91	54 - 120	10	39
Pyrene	<0.19	*-	19.2	17.3		ug/L		90	52 - 120	10	49

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*86*		*28 - 127*
2-Fluorobiphenyl (Surr)	*80*		*31 - 120*
2-Fluorophenol (Surr)	*61*		*17 - 120*
Nitrobenzene-d5 (Surr)	*70*		*27 - 120*
Phenol-d6 (Surr)	*42*		*10 - 120*
p-Terphenyl-d14 (Surr)	*83*		*45 - 120*

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

Lab Sample ID: MB 570-628809/6
Matrix: Water
Analysis Batch: 628809

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			09/22/25 11:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*38 - 134*		*09/22/25 11:06*	*1*

Lab Sample ID: LCS 570-628809/4
Matrix: Water
Analysis Batch: 628809

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	444		ug/L		111	78 - 120		

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

Lab Sample ID: LCS 570-628809/4
Matrix: Water
Analysis Batch: 628809

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

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*38 - 134*

Lab Sample ID: LCSD 570-628809/5
Matrix: Water
Analysis Batch: 628809

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (C4-C13)			400	416		ug/L		104	78 - 120	6	10

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*91*		*38 - 134*

Lab Sample ID: MRL 570-628809/3
Matrix: Water
Analysis Batch: 628809

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	14.6		ug/L		146	50 - 150		

Surrogate	*MRL %Recovery*	*MRL Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*88*		*38 - 134*

Lab Sample ID: 380-171895-C-1 MS
Matrix: Water
Analysis Batch: 628809

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	409		ug/L		102	68 - 122		

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

Lab Sample ID: 380-171895-C-1 MSD
Matrix: Water
Analysis Batch: 628809

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	418		ug/L		104	68 - 122	2	18

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*38 - 134*

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

Lab Sample ID: MB 570-628483/1-A
Matrix: Water
Analysis Batch: 632398

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 628483

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<25		25		ug/L		09/20/25 10:15	09/29/25 01:39	1
Motor Oil Range Organics [C24-C36]	<25		25		ug/L		09/20/25 10:15	09/29/25 01:39	1
C8-C18	<25		25		ug/L		09/20/25 10:15	09/29/25 01:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*88*		*60 - 130*	*09/20/25 10:15*	*09/29/25 01:39*	*1*

Lab Sample ID: LCS 570-628483/2-A
Matrix: Water
Analysis Batch: 632398

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 628483

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
C10-C28			1600	1820		ug/L		114	56 - 127		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-Octacosane (Surr)	*96*		*60 - 130*

Lab Sample ID: LCSD 570-628483/3-A
Matrix: Water
Analysis Batch: 632398

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 628483

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28			1600	1740		ug/L		109	56 - 127	4	23

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

Lab Sample ID: MRL 570-628483/4-A
Matrix: Water
Analysis Batch: 632398

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 628483

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
C10-C28			0.0250	0.0228	J	mg/L		91	50 - 150		

Surrogate	*MRL %Recovery*	*MRL Qualifier*	*Limits*
n-Octacosane (Surr)	*82*		*60 - 130*

Lab Sample ID: 380-171895-B-1-A MS
Matrix: Water
Analysis Batch: 632398

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 628483

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
C10-C28	<26		1640	1910		ug/L		116	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
n-Octacosane (Surr)	*96*		*60 - 130*

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

Lab Sample ID: 380-171895-B-1-B MSD
Matrix: Water
Analysis Batch: 632398

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 628483

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28	<26		1650	1890		ug/L		115	70 - 130	1	20

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

GC/MS Semi VOA

Prep Batch: 175529

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-171885-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	525.2	
380-171885-3	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	525.2	
MB 380-175529/20-A	Method Blank	Total/NA	Water	525.2	
LCS 380-175529/22-A	Lab Control Sample	Total/NA	Water	525.2	
MRL 380-175529/21-A	Lab Control Sample	Total/NA	Water	525.2	
380-171895-I-1-A MS	Matrix Spike	Total/NA	Water	525.2	
380-171885-1 DU	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	525.2	

Analysis Batch: 175685

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-171885-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	525.2	175529
380-171885-3	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	525.2	175529
MB 380-175529/20-A	Method Blank	Total/NA	Water	525.2	175529
LCS 380-175529/22-A	Lab Control Sample	Total/NA	Water	525.2	175529
MRL 380-175529/21-A	Lab Control Sample	Total/NA	Water	525.2	175529
380-171895-I-1-A MS	Matrix Spike	Total/NA	Water	525.2	175529
380-171885-1 DU	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	525.2	175529

Prep Batch: 627171

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-171885-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	625.1	
380-171885-3	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	625.1	
MB 570-627171/1-A	Method Blank	Total/NA	Water	625.1	
LCS 570-627171/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 570-627171/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	
380-171895-A-1-A MS	Matrix Spike	Total/NA	Water	625.1	
380-171895-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	625.1	

Analysis Batch: 630004

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-171885-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	625.1 SIM	627171
380-171885-3	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	625.1 SIM	627171
MB 570-627171/1-A	Method Blank	Total/NA	Water	625.1 SIM	627171
LCS 570-627171/2-A	Lab Control Sample	Total/NA	Water	625.1 SIM	627171
LCSD 570-627171/3-A	Lab Control Sample Dup	Total/NA	Water	625.1 SIM	627171
380-171895-A-1-A MS	Matrix Spike	Total/NA	Water	625.1 SIM	627171
380-171895-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	625.1 SIM	627171

Analysis Batch: 635518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-171885-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	625.1	627171
380-171885-3	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	625.1	627171
MB 570-627171/1-A	Method Blank	Total/NA	Water	625.1	627171

GC VOA

Analysis Batch: 628809

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-171885-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	8015B GRO LL	
380-171885-2	TB:AIEA GULCH WELLS P1 (331-201-TP071)	Total/NA	Water	8015B GRO LL	
380-171885-3	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	8015B GRO LL	

GC VOA (Continued)

Analysis Batch: 628809 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-171885-4	TB:AIEA GULCH WELLS P2 (331-202-TP072)	Total/NA	Water	8015B GRO LL	
MB 570-628809/6	Method Blank	Total/NA	Water	8015B GRO LL	
LCS 570-628809/4	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-628809/5	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	
MRL 570-628809/3	Lab Control Sample	Total/NA	Water	8015B GRO LL	
380-171895-C-1 MS	Matrix Spike	Total/NA	Water	8015B GRO LL	
380-171895-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8015B GRO LL	

GC Semi VOA

Prep Batch: 628483

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-171885-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	3510C	
380-171885-3	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	3510C	
MB 570-628483/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-628483/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-628483/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-628483/4-A	Lab Control Sample	Total/NA	Water	3510C	
380-171895-B-1-A MS	Matrix Spike	Total/NA	Water	3510C	
380-171895-B-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

Analysis Batch: 632398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-171885-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	8015B	628483
380-171885-3	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	8015B	628483
MB 570-628483/1-A	Method Blank	Total/NA	Water	8015B	628483
LCS 570-628483/2-A	Lab Control Sample	Total/NA	Water	8015B	628483
LCSD 570-628483/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	628483
MRL 570-628483/4-A	Lab Control Sample	Total/NA	Water	8015B	628483
380-171895-B-1-A MS	Matrix Spike	Total/NA	Water	8015B	628483
380-171895-B-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	8015B	628483

Lab Chronicle

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

Job ID: 380-171885-1
SDG: Weekly: Aiea Gulch Wells Pump1/Pump 2

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

Lab Sample ID: 380-171885-1

Date Collected: 09/15/25 11:01
Date Received: 09/17/25 09:33

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			175529	KRD3	EA POM	09/22/25 11:12
Total/NA	Analysis	525.2		1	175685	UPAC	EA POM	09/23/25 13:11
Total/NA	Prep	625.1			627171	H1SH	EET CAL 4	09/18/25 04:51
Total/NA	Analysis	625.1		1	635518	CG	EET CAL 4	10/04/25 10:34
Total/NA	Prep	625.1			627171	H1SH	EET CAL 4	09/18/25 04:51
Total/NA	Analysis	625.1 SIM		1	630004	J7WE	EET CAL 4	09/24/25 01:35
Total/NA	Analysis	8015B GRO LL		1	628809	YD9V	EET CAL 4	09/22/25 13:15
Total/NA	Prep	3510C			628483	TVD6	EET CAL 4	09/20/25 10:16
Total/NA	Analysis	8015B		1	632398	H6FE	EET CAL 4	09/29/25 03:47

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

Lab Sample ID: 380-171885-2

Date Collected: 09/15/25 11:01
Date Received: 09/17/25 09:33

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	628809	YD9V	EET CAL 4	09/22/25 15:57

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

Lab Sample ID: 380-171885-3

Date Collected: 09/15/25 11:20
Date Received: 09/17/25 09:33

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			175529	KRD3	EA POM	09/22/25 11:12
Total/NA	Analysis	525.2		1	175685	UPAC	EA POM	09/23/25 13:52
Total/NA	Prep	625.1			627171	H1SH	EET CAL 4	09/18/25 04:51
Total/NA	Analysis	625.1		1	635518	CG	EET CAL 4	10/04/25 11:01
Total/NA	Prep	625.1			627171	H1SH	EET CAL 4	09/18/25 04:51
Total/NA	Analysis	625.1 SIM		1	630004	J7WE	EET CAL 4	09/24/25 01:58
Total/NA	Analysis	8015B GRO LL		1	628809	YD9V	EET CAL 4	09/22/25 13:35
Total/NA	Prep	3510C			628483	TVD6	EET CAL 4	09/20/25 10:16
Total/NA	Analysis	8015B		1	632398	H6FE	EET CAL 4	09/29/25 04:08

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

Lab Sample ID: 380-171885-4

Date Collected: 09/15/25 11:20
Date Received: 09/17/25 09:33

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	628809	YD9V	EET CAL 4	09/22/25 16:17

Laboratory References:

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

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

Accreditation/Certification Summary

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

Job ID: 380-171885-1
SDG: Weekly: Aiea Gulch Wells Pump1/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	Terbuthylazine
525.2	525.2	Drinking Water	Total Permethrin (mixed isomers)
525.2	525.2	Drinking Water	trans-Nonachlor

Laboratory: Eurofins Calscience

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

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	7296.01	11-30-26
A2LA	ISO/IEC 17025	7296.01	11-30-26
Alaska (UST)	State	25-005	03-02-26
Arizona	State	AZ0830	11-16-25
California	Los Angeles County Sanitation Districts	9257304	07-31-26
California	SCAQMD LAP	17LA0919	11-30-25

Accreditation/Certification Summary

Client: City & County of Honolulu
Job ID: 380-171885-1
Project/Site: RED-HILL
SDG: Weekly: Aiea Gulch Wells Pump1/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: 380-171885-1
SDG: Weekly: Aiea Gulch Wells Pump1/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: 380-171885-1
SDG: Weekly: Aiea Gulch Wells Pump1/Pump 2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	PWSID Number
380-171885-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Drinking Water	09/15/25 11:01	09/17/25 09:33	HI0000331
380-171885-2	TB:AIEA GULCH WELLS P1 (331-201-TP071)	Water	09/15/25 11:01	09/17/25 09:33	
380-171885-3	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Drinking Water	09/15/25 11:20	09/17/25 09:33	HI0000331
380-171885-4	TB:AIEA GULCH WELLS P2 (331-202-TP072)	Water	09/15/25 11:20	09/17/25 09:33	

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

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: bailey	Lab PM: Lopez, Maria	Carrier Tracking No(s):	COC No: 380-28005-2757 1
Client Contact: Mr Kirk Iwamoto	Phone: +1 808 748 5840	E-Mail: Maria.Lopez@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: City & County of Honolulu	PWSID:			Job #:
Address: 630 South Beretania Street Chemistry Lab	Due Date Requested:			
City: Honolulu	TAT Requested (days):			
State, Zip: HI, 96843	Compliance Project: Δ Yes Δ No			
Phone: 808-748-5840 (Tel)	PO #: C20525101 exp 05312023			
Email: kiwamoto@hbws.org	WO #:			
Project Name: RED-HILL/HBWS Sites Event Desc: RUSH Weekly Red Hill	Project #: 38001111			
Site: Hawaii	SSOW#:			

Analysis Requested

Preservation Codes:
R - NaThioSO4
RA - NaThio/HCl
Q - Na2SO3
QA - Na2SO3/HCl
Y - Trizma
I - NH4 Acetate

380-171885 COC

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	625.1, 625.1_SIM	8015B_GRO_LL - (MOD) GRO	8015B_DRO_LL_C8 - HNL Ranges C10-C24/C24-C36/C8-C18	525.2_PREC - (MOD) 525plus Plus TICs	537.1_DW_PREC - 537.1 Full List	533 - All Analytes	Total Number of containers	Special Instructions/Note:
			Preservation Code:				R	RA	Q	QA	Y	I		
Aiea Gulch Wells Pump 1	15-Sep-2025	1101	G	Water			2	3	2	2				
Aiea Gulch Wells Pump 1 (Matrix Spike)				Water										
Aiea Gulch Wells Pump 1 (Matrix Spike Duplicate)				Water										
TB: Aiea Gulch Wells Pump 1	15-Sep-2025	1101		Water				2						
Aiea Gulch Wells Pump 2	15-Sep-2025	1120	G	Water			2	3	2	2				
Aiea Gulch Wells Pump 2 (Matrix Spike)				Water										
Aiea Gulch Wells Pump 2 (Matrix Spike Duplicate)				Water										
TB: Aiea Gulch Wells Pump 2	15-Sep-2025	1120		Water				2						

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: FedEx 8814 2499 1080
[redacted]	Date/Time: 16-Sep-2025 1400	Company: HBWS	Received by: Mark Urrutia Date/Time: 9/17/25 933 Company: EEAC
Relinquished by:	Date/Time:	Company	Received by: Date/Time: Company
Relinquished by:	Date/Time:	Company	Received by: Date/Time: Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks: (63A) 4.1+0.0.41 901-f0367

Ver: 04/02/2024

ORIGIN ID:HIKA (808) 748-5840
BWS CHEMLAB
HONOLULU BOARD OF WATER SUPPLY
630 S BERETANIA ST
CHEMICAL LABORATORY
HONOLULU HI 96843
UNITED STATES US

SHIP DATE. 16SEP25
ACTWGT 58.00 LB
CAD 258050552/INET4535

BILL RECIPIENT

TO EUROFINS RECEIVING DEPARTMENT
EUROFINS DRINKING WATER TESTING
941 CORPORATE CENTER DR

POMONA CA 91768
(626) 386-1100 REF
INV:
PO: DEPT

58GJ3/780E/59F2

FedEx Express

E

J253025062301uv

5 of 6
MPS# 0263 8844 2499 1127
Mstr# 8844 2499 1080

WED - 17 SEP 10:30A
PRIORITY OVERNIGHT
0201

91768
CA-US ONT

WM ONTA

(631A) 1.5+0.0 1.5 961- frozen
~~Matt~~ MarkUsrutia 9/17/25 933

After printing this label
CONSIGNEE COPY - PLEASE PLACE IN FRONT OF POUCH
1 Fold the printed page along the horizontal line
2 Place label in shipping pouch and affix it to your shipment

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

Chain of Custody Record

eurofins | Loc: 380 171885

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Lopez, Maria	Carrier Tracking No(s): N/A	COC No: 380-254214.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Maria.Lopez@et.eurofinsus.com	State of Origin: Hawaii	Page: Page 1 of 1
Company: Eurofins Environment Testing Southwest,		Accreditations Required (See note): State - Hawaii		Job #: 380-171885-1
Address: 2841 Dow Avenue, Suite 100, ,	Due Date Requested: 9/30/2025			Preservation Codes: -
City: Tustin	TAT Requested (days): N/A			
State, Zip: CA, 92780				
Phone: 714-895-5494(Tel)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: RED-HILL	Project #: 38001111			
Site: Honolulu BWS Sites	SSOW#: N/A			Other: N/A

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015B_DRO_LL_CS/3510C_LLHNL Range: C10-C24/C24-C36/C8-C18	8015B_GRO_LL/5030C(MOD) GRO	625.1_SIM/625_Prep(MOD) Extended PAH List	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
AIEA GULCH WELLS PUMP 1 (331-201-TP071) (380-171885-1)	9/15/25	11:01 Hawaiian	G	Water			X	X	X	7	MRLs are needed. Confirm any hits >RL.
TB:AIEA GULCH WELLS P1 (331-201-TP071) (380-171885-2)	9/15/25	11:01 Hawaiian	G	Water				X		2	MRLs are needed.
AIEA GULCH WELLS PUMP 2 (331-202-TP072) (380-171885-3)	9/15/25	11:20 Hawaiian	G	Water			X	X	X	7	MRLs are needed. Confirm any hits >RL.
TB:AIEA GULCH WELLS P2 (331-202-TP072) (380-171885-4)	9/15/25	11:20 Hawaiian	G	Water				X		2	MRLs are needed.

380-171885 Chain of Custody

Note: Since laboratory accreditations are subject to change, Eurofins Eaton Analytical, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Eaton Analytical, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Eaton Analytical, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Eaton Analytical, LLC.

Possible Hazard Identification: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) — Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Mark Mercurio	9/17/25 1610	EEAP		9-17-25 1611	EWP
	9-17-25 1728	EWP		9/17/25 1728	Fee

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.4/1.4 IR92

Login Sam

Client: City & County of Honolulu

Login Number: 171885
List Number: 1
Creator: Edrosa, Rey

Question

The coolers custody seal, if present, is intact.
Sample custody seals, if present, are intact.
Samples were received on ice.
Cooler(s) Temperature is acceptable.
Cooler(s) Temperature is recorded.

Eurofins Eaton Analytical Pomona

Login Sam

Client: City & County of Honolulu

Login Number: 171885
List Number: 1
Creator: Edrosa, Rey

Question

COC is present.
COC is filled out in ink and is legible.
COC is filled out with all pertinent information.
There are no discrepancies between the containers received an
Samples are received within Holding Time (excluding tests with HTs)

Eurofins Eaton Analytical Pomona

Login Sam

Client: City & County of Honolulu

Login Number: 171885
List Number: 1
Creator: Edrosa, Rey

Question

Sample containers have legible labels.

Containers are not broken or leaking.

Sample collection date/times are provided.

There is sufficient vol. for all requested analyses, incl. any reque
MS/MSDs

Eurofins Eaton Analytical Pomona

Login Sam

Client: City & County of Honolulu

Login Number: 171885
List Number: 1
Creator: Edrosa, Rey

Question

Containers requiring zero headspace have no headspace or bub (1/4").
ClO4 headspace requirement met (>50% for CA, >30% for othe
Samples do not require splitting or compositing.
Container provided by EEA

Eurofins Eaton Analytical Pomona

Login Sam

Client: City & County of Honolulu

Login Number: 171885
List Number: 2
Creator: Khana, Piyush

Question

Radioactivity wasn't checked or is </= background as measured meter.

The cooler's custody seal, if present, is intact.

Sample custody seals, if present, are intact.

The cooler or samples do not appear to have been compromise tampered with.

Eurofins Eaton Analytical Pomona

Login Sam

Client: City & County of Honolulu

Login Number: 171885
List Number: 2
Creator: Khana, Piyush

Question

Samples were received on ice.
Cooler Temperature is acceptable.
Cooler Temperature is recorded.
COC is present.
COC is filled out in ink and legible.

Eurofins Eaton Analytical Pomona

Login Sam

Client: City & County of Honolulu

Login Number: 171885
List Number: 2
Creator: Khana, Piyush

Question

COC is filled out with all pertinent information.

Is the Field Sampler's name present on COC?

There are no discrepancies between the containers received an

Samples are received within Holding Time (excluding tests with HTs)

Sample containers have legible labels.

Eurofins Eaton Analytical Pomona

Login Sam

Client: City & County of Honolulu

Login Number: 171885
List Number: 2
Creator: Khana, Piyush

Question

Containers are not broken or leaking.
Sample collection date/times are provided.
Appropriate sample containers are used.
Sample bottles are completely filled.
Sample Preservation Verified.

Eurofins Eaton Analytical Pomona

Login Sam

Client: City & County of Honolulu

Login Number: 171885
List Number: 2
Creator: Khana, Piyush

Question

There is sufficient vol. for all requested analyses, incl. any reque
MS/MSDs

Containers requiring zero headspace have no headspace or bul
(1/4").

Multiphasic samples are not present.

Samples do not require splitting or compositing.

Eurofins Eaton Analytical Pomona

Login Sam

Client: City & County of Honolulu

Login Number: 171885
List Number: 2
Creator: Khana, Piyush

Question

Residual Chlorine Checked.

Eurofins Eaton Analytical Pomona