

ANALYTICAL REPORT

PREPARED FOR

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JOB DESCRIPTION

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

JOB NUMBER

380-228913-1

Eurofins Pomona

Job Notes

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

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

Compliance Statement

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

Authorization



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Definitions/Glossary

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

Job ID: 380-228913-1
SDG: Weekly: Aiea Gulch Wells Pump 1

Qualifiers

GC/MS Semi VOA

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

GC/MS Semi VOA TICs

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

GC Semi VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits

Glossary

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

Case Narrative

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

Job ID: 380-228913-1

Job ID: 380-228913-1

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Job Narrative 380-228913-1

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 8/5/2026 9:51 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 2.8°C.

GC/MS Semi VOA

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

Gasoline Range Organics

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

Diesel Range Organics

Method 8015B: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 570-780818 and analytical batch 570-785034 was outside control limits. Sample matrix interference is suspected.

Method: 8015B_DRO_LL_CS

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

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Detection Summary

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

Job ID: 380-228913-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: 380-228913-1

☐ No Detections.

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

Lab Sample ID: 380-228913-2

☐ No Detections.

This Detection Summary does not include radiochemical test results.

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Client Sample Results

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

Job ID: 380-228913-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: 380-228913-1

Date Collected: 08/03/26 10:59

Matrix: Drinking Water

Date Received: 08/05/26 09:51

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		08/06/26 09:12	08/07/26 20:45	1
2,4'-DDD	<0.099		0.099	ug/L		08/06/26 09:12	08/07/26 20:45	1
2,4'-DDE	<0.099		0.099	ug/L		08/06/26 09:12	08/07/26 20:45	1
2,4'-DDT	<0.099		0.099	ug/L		08/06/26 09:12	08/07/26 20:45	1
2,4-Dinitrotoluene	<0.099		0.099	ug/L		08/06/26 09:12	08/07/26 20:45	1
2,6-Dinitrotoluene	<0.099		0.099	ug/L		08/06/26 09:12	08/07/26 20:45	1
2-Methylnaphthalene	<0.099		0.099	ug/L		08/06/26 09:12	08/07/26 20:45	1
4,4'-DDD	<0.099		0.099	ug/L		08/06/26 09:12	08/07/26 20:45	1
4,4'-DDE	<0.099		0.099	ug/L		08/06/26 09:12	08/07/26 20:45	1
4,4'-DDT	<0.099		0.099	ug/L		08/06/26 09:12	08/07/26 20:45	1
Acenaphthene	<0.099		0.099	ug/L		08/06/26 09:12	08/07/26 20:45	1
Acenaphthylene	<0.099		0.099	ug/L		08/06/26 09:12	08/07/26 20:45	1
Acetochlor	<0.099		0.099	ug/L		08/06/26 09:12	08/07/26 20:45	1
Alachlor	<0.049		0.049	ug/L		08/06/26 09:12	08/07/26 20:45	1
alpha-BHC	<0.099		0.099	ug/L		08/06/26 09:12	08/07/26 20:45	1
alpha-Chlordane	<0.049		0.049	ug/L		08/06/26 09:12	08/07/26 20:45	1
Anthracene	<0.020		0.020	ug/L		08/06/26 09:12	08/07/26 20:45	1
Atrazine	<0.049		0.049	ug/L		08/06/26 09:12	08/07/26 20:45	1
Benz(a)anthracene	<0.049		0.049	ug/L		08/06/26 09:12	08/07/26 20:45	1
Benzo[a]pyrene	<0.020		0.020	ug/L		08/06/26 09:12	08/07/26 20:45	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		08/06/26 09:12	08/07/26 20:45	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		08/06/26 09:12	08/07/26 20:45	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		08/06/26 09:12	08/07/26 20:45	1
beta-BHC	<0.099		0.099	ug/L		08/06/26 09:12	08/07/26 20:45	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		08/06/26 09:12	08/07/26 20:45	1
Bromacil	<0.099		0.099	ug/L		08/06/26 09:12	08/07/26 20:45	1
Butachlor	<0.049		0.049	ug/L		08/06/26 09:12	08/07/26 20:45	1
Butylbenzylphthalate	<0.49		0.49	ug/L		08/06/26 09:12	08/07/26 20:45	1
Chlorobenzilate	<0.099		0.099	ug/L		08/06/26 09:12	08/07/26 20:45	1
Chloroneb	<0.099		0.099	ug/L		08/06/26 09:12	08/07/26 20:45	1
Chlorothalonil (Draconil, Bravo)	<0.099		0.099	ug/L		08/06/26 09:12	08/07/26 20:45	1
Chlorpyrifos	<0.049		0.049	ug/L		08/06/26 09:12	08/07/26 20:45	1
Chrysene	<0.020		0.020	ug/L		08/06/26 09:12	08/07/26 20:45	1
delta-BHC	<0.099		0.099	ug/L		08/06/26 09:12	08/07/26 20:45	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		08/06/26 09:12	08/07/26 20:45	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		08/06/26 09:12	08/07/26 20:45	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		08/06/26 09:12	08/07/26 20:45	1
Dieldrin	<0.0099		0.0099	ug/L		08/06/26 09:12	08/07/26 20:45	1
Diethylphthalate	<0.49		0.49	ug/L		08/06/26 09:12	08/07/26 20:45	1
Dimethylphthalate	<0.49		0.49	ug/L		08/06/26 09:12	08/07/26 20:45	1
Di-n-butyl phthalate	<0.99		0.99	ug/L		08/06/26 09:12	08/07/26 20:45	1
Di-n-octyl phthalate	<0.099		0.099	ug/L		08/06/26 09:12	08/07/26 20:45	1
Endosulfan I (Alpha)	<0.099		0.099	ug/L		08/06/26 09:12	08/07/26 20:45	1
Endosulfan II (Beta)	<0.099		0.099	ug/L		08/06/26 09:12	08/07/26 20:45	1
Endosulfan sulfate	<0.099		0.099	ug/L		08/06/26 09:12	08/07/26 20:45	1
Endrin	<0.0099		0.0099	ug/L		08/06/26 09:12	08/07/26 20:45	1
Endrin aldehyde	<0.099		0.099	ug/L		08/06/26 09:12	08/07/26 20:45	1
EPTC	<0.099		0.099	ug/L		08/06/26 09:12	08/07/26 20:45	1

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Client Sample Results

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

Job ID: 380-228913-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: 380-228913-1

Date Collected: 08/03/26 10:59

Matrix: Drinking Water

Date Received: 08/05/26 09:51

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		08/06/26 09:12	08/07/26 20:45	1
Fluorene	<0.049		0.049	ug/L		08/06/26 09:12	08/07/26 20:45	1
gamma-Chlordane	<0.049		0.049	ug/L		08/06/26 09:12	08/07/26 20:45	1
Heptachlor	<0.0099		0.0099	ug/L		08/06/26 09:12	08/07/26 20:45	1
Heptachlor epoxide (isomer B)	<0.0099		0.0099	ug/L		08/06/26 09:12	08/07/26 20:45	1
Hexachlorobenzene	<0.049		0.049	ug/L		08/06/26 09:12	08/07/26 20:45	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		08/06/26 09:12	08/07/26 20:45	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		08/06/26 09:12	08/07/26 20:45	1
Isophorone	<0.099		0.099	ug/L		08/06/26 09:12	08/07/26 20:45	1
Lindane	<0.0099		0.0099	ug/L		08/06/26 09:12	08/07/26 20:45	1
Malathion	<0.099		0.099	ug/L		08/06/26 09:12	08/07/26 20:45	1
Methoxychlor	<0.049		0.049	ug/L		08/06/26 09:12	08/07/26 20:45	1
Metolachlor	<0.049		0.049	ug/L		08/06/26 09:12	08/07/26 20:45	1
Molinate	<0.099		0.099	ug/L		08/06/26 09:12	08/07/26 20:45	1
Naphthalene	<0.099		0.099	ug/L		08/06/26 09:12	08/07/26 20:45	1
Parathion	<0.099		0.099	ug/L		08/06/26 09:12	08/07/26 20:45	1
Pendimethalin (Penoxaline)	<0.099		0.099	ug/L		08/06/26 09:12	08/07/26 20:45	1
Phenanthrene	<0.039		0.039	ug/L		08/06/26 09:12	08/07/26 20:45	1
Propachlor	<0.049		0.049	ug/L		08/06/26 09:12	08/07/26 20:45	1
Pyrene	<0.049		0.049	ug/L		08/06/26 09:12	08/07/26 20:45	1
Simazine	<0.049		0.049	ug/L		08/06/26 09:12	08/07/26 20:45	1
Terbacil	<0.099		0.099	ug/L		08/06/26 09:12	08/07/26 20:45	1
Terbutylazine	<0.099		0.099	ug/L		08/06/26 09:12	08/07/26 20:45	1
Thiobencarb	<0.099		0.099	ug/L		08/06/26 09:12	08/07/26 20:45	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		08/06/26 09:12	08/07/26 20:45	1
trans-Nonachlor	<0.049		0.049	ug/L		08/06/26 09:12	08/07/26 20:45	1
Trifluralin	<0.099		0.099	ug/L		08/06/26 09:12	08/07/26 20:45	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	08/06/26 09:12	08/07/26 20:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	97		70 - 130	08/06/26 09:12	08/07/26 20:45	1
Perylene-d12	96		70 - 130	08/06/26 09:12	08/07/26 20:45	1
Triphenylphosphate	110		70 - 130	08/06/26 09:12	08/07/26 20:45	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.19		0.19	ug/L		08/10/26 07:53	08/14/26 06:41	1
2-Methylnaphthalene	<0.19		0.19	ug/L		08/10/26 07:53	08/14/26 06:41	1
Acenaphthene	<0.19		0.19	ug/L		08/10/26 07:53	08/14/26 06:41	1
Acenaphthylene	<0.19		0.19	ug/L		08/10/26 07:53	08/14/26 06:41	1
Anthracene	<0.19		0.19	ug/L		08/10/26 07:53	08/14/26 06:41	1
Benzo[a]anthracene	<0.19		0.19	ug/L		08/10/26 07:53	08/14/26 06:41	1
Benzo[a]pyrene	<0.19		0.19	ug/L		08/10/26 07:53	08/14/26 06:41	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		08/10/26 07:53	08/14/26 06:41	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		08/10/26 07:53	08/14/26 06:41	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		08/10/26 07:53	08/14/26 06:41	1
Chrysene	<0.19		0.19	ug/L		08/10/26 07:53	08/14/26 06:41	1

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Client Sample Results

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

Job ID: 380-228913-1
SDG: Weekly: Aiea Gulch Wells Pump 1

Client Sample ID: AIEA GULCH WELLS PUMP 1

Lab Sample ID: 380-228913-1

(331-201-TP071)

Date Collected: 08/03/26 10:59

Matrix: Drinking Water

Date Received: 08/05/26 09:51

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	<0.19		0.19	ug/L		08/10/26 07:53	08/14/26 06:41	1
Fluoranthene	<0.19		0.19	ug/L		08/10/26 07:53	08/14/26 06:41	1
Fluorene	<0.19		0.19	ug/L		08/10/26 07:53	08/14/26 06:41	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		08/10/26 07:53	08/14/26 06:41	1
Naphthalene	<0.19		0.19	ug/L		08/10/26 07:53	08/14/26 06:41	1
Phenanthrene	<0.19		0.19	ug/L		08/10/26 07:53	08/14/26 06:41	1
Pyrene	<0.19		0.19	ug/L		08/10/26 07:53	08/14/26 06:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	94		28 - 127	08/10/26 07:53	08/14/26 06:41	1
2-Fluorobiphenyl (Surr)	85		31 - 120	08/10/26 07:53	08/14/26 06:41	1
2-Fluorophenol (Surr)	59		17 - 120	08/10/26 07:53	08/14/26 06:41	1
Nitrobenzene-d5 (Surr)	87		27 - 120	08/10/26 07:53	08/14/26 06:41	1
Phenol-d6 (Surr)	33		10 - 120	08/10/26 07:53	08/14/26 06:41	1
p-Terphenyl-d14 (Surr)	86		45 - 120	08/10/26 07:53	08/14/26 06:41	1

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

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	08/10/26 07:53	08/19/26 03:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	89		33 - 139	08/10/26 07:53	08/19/26 03:05	1
2-Fluorobiphenyl (Surr)	88		33 - 126	08/10/26 07:53	08/19/26 03:05	1
2-Fluorophenol (Surr)	52		12 - 120	08/10/26 07:53	08/19/26 03:05	1
Nitrobenzene-d5 (Surr)	88		36 - 120	08/10/26 07:53	08/19/26 03:05	1
Phenol-d6 (Surr)	29		10 - 120	08/10/26 07:53	08/19/26 03:05	1
p-Terphenyl-d14 (Surr)	87		47 - 131	08/10/26 07:53	08/19/26 03:05	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	<10		10	ug/L			08/08/26 20:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		38 - 134		08/08/26 20:20	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<26		26	ug/L		08/07/26 10:09	08/16/26 11:38	1
Motor Oil Range Organics [C24-C36]	<26		26	ug/L		08/07/26 10:09	08/16/26 11:38	1
C8-C18	<26		26	ug/L		08/07/26 10:09	08/16/26 11:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	106		60 - 130	08/07/26 10:09	08/16/26 11:38	1

Eurofins Pomona

Client Sample Results

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

Job ID: 380-228913-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: 380-228913-2

Date Collected: 08/03/26 10:59

Matrix: Water

Date Received: 08/05/26 09:51

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	<10		10	ug/L			08/08/26 15:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		38 - 134				08/08/26 15:51	1

Action Limit Summary

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

Job ID: 380-228913-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: 380-228913-1

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

Surrogate Summary

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

Job ID: 380-228913-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Matrix: Drinking Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)						
		2NMX (70-130)	PRY (70-130)	TPP (70-130)				
380-228913-1	AIEA GULCH WELLS PUMP 1 (331)	97	96	110				
Surrogate Legend								
2NMX = 2-Nitro-m-xylene								
PRY = Perylene-d12								
TPP = Triphenylphosphate								

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)						
		2NMX (70-130)	PRY (70-130)	TPP (70-130)				
380-228880-I-1-A MS	Matrix Spike	99	103	106				
380-228883-I-1-A DU	Duplicate	99	97	105				
LCS 380-244784/23-A	Lab Control Sample	99	102	105				
MB 380-244784/21-A	Method Blank	98	94	103				
MRL 380-244784/22-A	Lab Control Sample	97	95	103				
Surrogate Legend								
2NMX = 2-Nitro-m-xylene								
PRY = Perylene-d12								
TPP = Triphenylphosphate								

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

Matrix: Drinking Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)							
		TBP (33-139)	FBP (33-126)	2FP (12-120)	NBZ (36-120)	PHL6 (10-120)	TPHd14 (47-131)		
380-228913-1	AIEA GULCH WELLS PUMP 1 (331)	89	88	52	88	29	87		
Surrogate Legend									
TBP = 2,4,6-Tribromophenol (Surr)									
FBP = 2-Fluorobiphenyl (Surr)									
2FP = 2-Fluorophenol (Surr)									
NBZ = Nitrobenzene-d5 (Surr)									
PHL6 = Phenol-d6 (Surr)									
TPHd14 = p-Terphenyl-d14 (Surr)									

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)							
		TBP (33-139)	FBP (33-126)	2FP (12-120)	NBZ (36-120)	PHL6 (10-120)	TPHd14 (47-131)		
MB 570-781834/1-A	Method Blank	100	96	58	92	32	94		
Surrogate Legend									
TBP = 2,4,6-Tribromophenol (Surr)									
FBP = 2-Fluorobiphenyl (Surr)									
2FP = 2-Fluorophenol (Surr)									
NBZ = Nitrobenzene-d5 (Surr)									

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Surrogate Summary

Client: City & County of Honolulu

Project/Site: RED-HILL

PHL6 = Phenol-d6 (Surr)

TPHd14 = p-Terphenyl-d14 (Surr)

Job ID: 380-228913-1

SDG: Weekly: Aiea Gulch Wells Pump 1

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

Matrix: Drinking Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (28-127)	FBP (31-120)	2FP (17-120)	NBZ (27-120)	PHL6 (10-120)	TPHd14 (45-120)
380-228913-1	AIEA GULCH WELLS PUMP 1 (331	94	85	59	87	33	86

Surrogate Legend

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

FBP = 2-Fluorobiphenyl (Surr)

2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

PHL6 = Phenol-d6 (Surr)

TPHd14 = p-Terphenyl-d14 (Surr)

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (28-127)	FBP (31-120)	2FP (17-120)	NBZ (27-120)	PHL6 (10-120)	TPHd14 (45-120)
380-228883-A-1-A MS	Matrix Spike	99	92	73	69	44	99
380-228883-A-1-B MSD	Matrix Spike Duplicate	95	91	75	69	46	97
LCS 570-781834/2-A	Lab Control Sample	101	96	83	73	54	107
LCSD 570-781834/3-A	Lab Control Sample Dup	97	93	81	70	51	104
MB 570-781834/1-A	Method Blank	100	86	62	93	37	79

Surrogate Legend

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

FBP = 2-Fluorobiphenyl (Surr)

2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

PHL6 = Phenol-d6 (Surr)

TPHd14 = p-Terphenyl-d14 (Surr)

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

Matrix: Drinking Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		BFB1 (38-134)					
380-228913-1	AIEA GULCH WELLS PUMP 1 (331	83					

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		BFB1 (38-134)					
380-228215-B-1 MS	Matrix Spike	100					
380-228215-B-1 MSD	Matrix Spike Duplicate	100					
380-228913-2	TB: AIEA GULCH WELLS PUMP 1 (331-201-TP071)	101					

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Surrogate Summary

Client: City & County of Honolulu

Job ID: 380-228913-1

Project/Site: RED-HILL

SDG: Weekly: Aiea Gulch Wells Pump 1

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	BFB1 (38-134)
LCS 570-781313/3	Lab Control Sample	78
LCSD 570-781313/4	Lab Control Sample Dup	99
MB 570-781313/6	Method Blank	97
MRL 570-781313/5	Lab Control Sample	93
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)
380-228913-1	AIEA GULCH WELLS PUMP 1 (331	106
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)
380-228883-B-1-A MS	Matrix Spike	114
380-228883-B-1-B MSD	Matrix Spike Duplicate	99
LCS 570-780818/2-A	Lab Control Sample	120
LCSD 570-780818/3-A	Lab Control Sample Dup	97
MB 570-780818/1-A	Method Blank	104
MRL 570-780818/4-A	Lab Control Sample	109
Surrogate Legend		
OTCSN = n-Octacosane (Surr)		

QC Sample Results

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

Job ID: 380-228913-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: MB 380-244784/21-A
Matrix: Water
Analysis Batch: 245108

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 244784

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.099		0.099	ug/L		08/06/26 09:12	08/07/26 15:41	1
2,4'-DDD	<0.099		0.099	ug/L		08/06/26 09:12	08/07/26 15:41	1
2,4'-DDE	<0.099		0.099	ug/L		08/06/26 09:12	08/07/26 15:41	1
2,4'-DDT	<0.099		0.099	ug/L		08/06/26 09:12	08/07/26 15:41	1
2,4-Dinitrotoluene	<0.099		0.099	ug/L		08/06/26 09:12	08/07/26 15:41	1
2,6-Dinitrotoluene	<0.099		0.099	ug/L		08/06/26 09:12	08/07/26 15:41	1
2-Methylnaphthalene	<0.099		0.099	ug/L		08/06/26 09:12	08/07/26 15:41	1
4,4'-DDD	<0.099		0.099	ug/L		08/06/26 09:12	08/07/26 15:41	1
4,4'-DDE	<0.099		0.099	ug/L		08/06/26 09:12	08/07/26 15:41	1
4,4'-DDT	<0.099		0.099	ug/L		08/06/26 09:12	08/07/26 15:41	1
Acenaphthene	<0.099		0.099	ug/L		08/06/26 09:12	08/07/26 15:41	1
Acenaphthylene	<0.099		0.099	ug/L		08/06/26 09:12	08/07/26 15:41	1
Acetochlor	<0.099		0.099	ug/L		08/06/26 09:12	08/07/26 15:41	1
Alachlor	<0.050		0.050	ug/L		08/06/26 09:12	08/07/26 15:41	1
alpha-BHC	<0.099		0.099	ug/L		08/06/26 09:12	08/07/26 15:41	1
alpha-Chlordane	<0.050		0.050	ug/L		08/06/26 09:12	08/07/26 15:41	1
Anthracene	<0.020		0.020	ug/L		08/06/26 09:12	08/07/26 15:41	1
Atrazine	<0.050		0.050	ug/L		08/06/26 09:12	08/07/26 15:41	1
Benz(a)anthracene	<0.050		0.050	ug/L		08/06/26 09:12	08/07/26 15:41	1
Benzo[a]pyrene	<0.020		0.020	ug/L		08/06/26 09:12	08/07/26 15:41	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		08/06/26 09:12	08/07/26 15:41	1
Benzo[g,h,i]perylene	<0.050		0.050	ug/L		08/06/26 09:12	08/07/26 15:41	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		08/06/26 09:12	08/07/26 15:41	1
beta-BHC	<0.099		0.099	ug/L		08/06/26 09:12	08/07/26 15:41	1
Bis(2-ethylhexyl) phthalate	<0.60		0.60	ug/L		08/06/26 09:12	08/07/26 15:41	1
Bromacil	<0.099		0.099	ug/L		08/06/26 09:12	08/07/26 15:41	1
Butachlor	<0.050		0.050	ug/L		08/06/26 09:12	08/07/26 15:41	1
Butylbenzylphthalate	<0.50		0.50	ug/L		08/06/26 09:12	08/07/26 15:41	1
Chlorobenzilate	<0.099		0.099	ug/L		08/06/26 09:12	08/07/26 15:41	1
Chloroneb	<0.099		0.099	ug/L		08/06/26 09:12	08/07/26 15:41	1
Chlorothalonil (Draconil, Bravo)	<0.099		0.099	ug/L		08/06/26 09:12	08/07/26 15:41	1
Chlorpyrifos	<0.050		0.050	ug/L		08/06/26 09:12	08/07/26 15:41	1
Chrysene	<0.020		0.020	ug/L		08/06/26 09:12	08/07/26 15:41	1
delta-BHC	<0.099		0.099	ug/L		08/06/26 09:12	08/07/26 15:41	1
Di(2-ethylhexyl)adipate	<0.60		0.60	ug/L		08/06/26 09:12	08/07/26 15:41	1
Dibenz(a,h)anthracene	<0.050		0.050	ug/L		08/06/26 09:12	08/07/26 15:41	1
Diclorvos (DDVP)	<0.050		0.050	ug/L		08/06/26 09:12	08/07/26 15:41	1
Dieldrin	<0.0099		0.0099	ug/L		08/06/26 09:12	08/07/26 15:41	1
Diethylphthalate	<0.50		0.50	ug/L		08/06/26 09:12	08/07/26 15:41	1
Dimethylphthalate	<0.50		0.50	ug/L		08/06/26 09:12	08/07/26 15:41	1
Di-n-butyl phthalate	<0.99		0.99	ug/L		08/06/26 09:12	08/07/26 15:41	1
Di-n-octyl phthalate	<0.099		0.099	ug/L		08/06/26 09:12	08/07/26 15:41	1
Endosulfan I (Alpha)	<0.099		0.099	ug/L		08/06/26 09:12	08/07/26 15:41	1
Endosulfan II (Beta)	<0.099		0.099	ug/L		08/06/26 09:12	08/07/26 15:41	1
Endosulfan sulfate	<0.099		0.099	ug/L		08/06/26 09:12	08/07/26 15:41	1
Endrin	<0.0099		0.0099	ug/L		08/06/26 09:12	08/07/26 15:41	1
Endrin aldehyde	<0.099		0.099	ug/L		08/06/26 09:12	08/07/26 15:41	1
EPTC	<0.099		0.099	ug/L		08/06/26 09:12	08/07/26 15:41	1

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QC Sample Results

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

Job ID: 380-228913-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: MB 380-244784/21-A

Matrix: Water

Analysis Batch: 245108

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 244784

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.099		0.099	ug/L		08/06/26 09:12	08/07/26 15:41	1
Fluorene	<0.050		0.050	ug/L		08/06/26 09:12	08/07/26 15:41	1
gamma-Chlordane	<0.050		0.050	ug/L		08/06/26 09:12	08/07/26 15:41	1
Heptachlor	<0.0099		0.0099	ug/L		08/06/26 09:12	08/07/26 15:41	1
Heptachlor epoxide (isomer B)	<0.0099		0.0099	ug/L		08/06/26 09:12	08/07/26 15:41	1
Hexachlorobenzene	<0.050		0.050	ug/L		08/06/26 09:12	08/07/26 15:41	1
Hexachlorocyclopentadiene	<0.050		0.050	ug/L		08/06/26 09:12	08/07/26 15:41	1
Indeno[1,2,3-cd]pyrene	<0.050		0.050	ug/L		08/06/26 09:12	08/07/26 15:41	1
Isophorone	<0.099		0.099	ug/L		08/06/26 09:12	08/07/26 15:41	1
Lindane	<0.0099		0.0099	ug/L		08/06/26 09:12	08/07/26 15:41	1
Malathion	<0.099		0.099	ug/L		08/06/26 09:12	08/07/26 15:41	1
Methoxychlor	<0.050		0.050	ug/L		08/06/26 09:12	08/07/26 15:41	1
Metolachlor	<0.050		0.050	ug/L		08/06/26 09:12	08/07/26 15:41	1
Molinate	<0.099		0.099	ug/L		08/06/26 09:12	08/07/26 15:41	1
Naphthalene	<0.099		0.099	ug/L		08/06/26 09:12	08/07/26 15:41	1
Parathion	<0.099		0.099	ug/L		08/06/26 09:12	08/07/26 15:41	1
Pendimethalin (Penoxaline)	<0.099		0.099	ug/L		08/06/26 09:12	08/07/26 15:41	1
Phenanthrene	<0.040		0.040	ug/L		08/06/26 09:12	08/07/26 15:41	1
Propachlor	<0.050		0.050	ug/L		08/06/26 09:12	08/07/26 15:41	1
Pyrene	<0.050		0.050	ug/L		08/06/26 09:12	08/07/26 15:41	1
Simazine	<0.050		0.050	ug/L		08/06/26 09:12	08/07/26 15:41	1
Terbacil	<0.099		0.099	ug/L		08/06/26 09:12	08/07/26 15:41	1
Terbutylazine	<0.099		0.099	ug/L		08/06/26 09:12	08/07/26 15:41	1
Thiobencarb	<0.099		0.099	ug/L		08/06/26 09:12	08/07/26 15:41	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		08/06/26 09:12	08/07/26 15:41	1
trans-Nonachlor	<0.050		0.050	ug/L		08/06/26 09:12	08/07/26 15:41	1
Trifluralin	<0.099		0.099	ug/L		08/06/26 09:12	08/07/26 15:41	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	0.693	T J	ug/L		2.90	N/A	08/06/26 09:12	08/07/26 15:41	1
Undecane	5.01	T J N	ug/L		3.04	1120-21-4	08/06/26 09:12	08/07/26 15:41	1
Undecane	0.564	T J N	ug/L		3.07	1120-21-4	08/06/26 09:12	08/07/26 15:41	1
Cyclopentasiloxane, decamethyl-	0.541	T J N	ug/L		3.18	541-02-6	08/06/26 09:12	08/07/26 15:41	1
Phenol, m-tert-butyl-	0.638	T J N	ug/L		3.78	585-34-2	08/06/26 09:12	08/07/26 15:41	1
9-Octadecenamide, (Z)-	4.59	T J N	ug/L		7.77	301-02-0	08/06/26 09:12	08/07/26 15:41	1
9-Octadecenamide, (Z)-	2.70	T J N	ug/L		10.25	301-02-0	08/06/26 09:12	08/07/26 15:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	98		70 - 130	08/06/26 09:12	08/07/26 15:41	1
Perylene-d12	94		70 - 130	08/06/26 09:12	08/07/26 15:41	1
Triphenylphosphate	103		70 - 130	08/06/26 09:12	08/07/26 15:41	1

Lab Sample ID: LCS 380-244784/23-A

Matrix: Water

Analysis Batch: 245108

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 244784

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	1.98	1.97		ug/L		100	70 - 130

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QC Sample Results

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

Job ID: 380-228913-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: LCS 380-244784/23-A

Matrix: Water

Analysis Batch: 245108

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 244784

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4'-DDD	1.98	2.02		ug/L		102	70 - 130
2,4'-DDE	1.98	1.86		ug/L		94	70 - 130
2,4'-DDT	1.98	1.94		ug/L		98	70 - 130
2,4-Dinitrotoluene	1.98	2.16		ug/L		109	70 - 130
2,6-Dinitrotoluene	1.98	2.06		ug/L		104	70 - 130
2-Methylnaphthalene	1.98	1.98		ug/L		100	70 - 130
4,4'-DDD	1.98	2.03		ug/L		103	70 - 130
4,4'-DDE	1.98	1.99		ug/L		101	70 - 130
4,4'-DDT	1.98	1.92		ug/L		97	70 - 130
Acenaphthene	1.98	2.02		ug/L		102	70 - 130
Acenaphthylene	1.98	1.94		ug/L		98	70 - 130
Acetochlor	1.98	2.06		ug/L		104	70 - 130
Alachlor	1.98	2.03		ug/L		103	70 - 130
alpha-BHC	1.98	1.99		ug/L		101	70 - 130
alpha-Chlordane	1.98	1.95		ug/L		99	70 - 130
Anthracene	1.98	1.92		ug/L		97	70 - 130
Atrazine	1.98	2.11		ug/L		107	70 - 130
Benz(a)anthracene	1.98	1.98		ug/L		100	70 - 130
Benzo[a]pyrene	1.98	2.09		ug/L		106	70 - 130
Benzo[b]fluoranthene	1.98	2.21		ug/L		112	70 - 130
Benzo[g,h,i]perylene	1.98	2.03		ug/L		103	70 - 130
Benzo[k]fluoranthene	1.98	2.09		ug/L		106	70 - 130
beta-BHC	1.98	1.96		ug/L		99	70 - 130
Bis(2-ethylhexyl) phthalate	1.98	2.20		ug/L		111	70 - 130
Bromacil	1.98	1.91		ug/L		97	70 - 130
Butachlor	1.98	2.16		ug/L		109	70 - 130
Butylbenzylphthalate	1.98	2.20		ug/L		111	70 - 130
Chlorobenzilate	1.98	2.09		ug/L		106	70 - 130
Chloroneb	1.98	1.92		ug/L		97	70 - 130
Chlorothalonil (Draconil, Bravo)	1.98	1.92		ug/L		97	70 - 130
Chlorpyrifos	1.98	2.02		ug/L		102	70 - 130
Chrysene	1.98	2.02		ug/L		102	70 - 130
delta-BHC	1.98	1.89		ug/L		96	70 - 130
Di(2-ethylhexyl)adipate	1.98	2.23		ug/L		113	70 - 130
Dibenz(a,h)anthracene	1.98	2.00		ug/L		101	70 - 130
Diclorvos (DDVP)	1.98	2.04		ug/L		103	70 - 130
Dieldrin	1.98	1.95		ug/L		99	70 - 130
Diethylphthalate	1.98	2.15		ug/L		109	70 - 130
Dimethylphthalate	1.98	2.06		ug/L		104	70 - 130
Di-n-butyl phthalate	3.95	4.09		ug/L		104	70 - 130
Di-n-octyl phthalate	1.98	2.17		ug/L		110	70 - 130
Endosulfan I (Alpha)	1.98	1.90		ug/L		96	70 - 130
Endosulfan II (Beta)	1.98	1.99		ug/L		101	70 - 130
Endosulfan sulfate	1.98	1.87		ug/L		95	70 - 130
Endrin	1.98	2.01		ug/L		102	70 - 130
Endrin aldehyde	1.98	1.73		ug/L		88	60 - 130
EPTC	1.98	2.08		ug/L		105	70 - 130
Fluoranthene	1.98	2.11		ug/L		107	70 - 130
Fluorene	1.98	2.04		ug/L		103	70 - 130

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QC Sample Results

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

Job ID: 380-228913-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: LCS 380-244784/23-A

Matrix: Water

Analysis Batch: 245108

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 244784

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
gamma-Chlordane	1.98	1.90		ug/L		96	70 - 130
Heptachlor	1.98	1.87		ug/L		95	70 - 130
Heptachlor epoxide (isomer B)	1.98	1.99		ug/L		101	70 - 130
Hexachlorobenzene	1.98	1.94		ug/L		98	70 - 130
Hexachlorocyclopentadiene	1.98	1.89		ug/L		96	70 - 130
Indeno[1,2,3-cd]pyrene	1.98	2.02		ug/L		102	70 - 130
Isophorone	1.98	2.02		ug/L		102	70 - 130
Lindane	1.98	1.98		ug/L		100	70 - 130
Malathion	1.98	2.05		ug/L		104	70 - 130
Methoxychlor	1.98	2.20		ug/L		111	70 - 130
Metolachlor	1.98	2.03		ug/L		103	70 - 130
Molinate	1.98	2.11		ug/L		107	70 - 130
Naphthalene	1.98	1.96		ug/L		99	70 - 130
Parathion	1.98	2.25		ug/L		114	70 - 130
Pendimethalin (Penoxaline)	1.98	2.11		ug/L		107	70 - 130
Phenanthrene	1.98	1.92		ug/L		97	70 - 130
Propachlor	1.98	2.11		ug/L		107	70 - 130
Pyrene	1.98	2.04		ug/L		103	70 - 130
Simazine	1.98	1.96		ug/L		99	70 - 130
Terbacil	1.98	2.04		ug/L		103	70 - 130
Terbuthylazine	1.98	2.17		ug/L		110	70 - 130
Thiobencarb	1.98	2.03		ug/L		103	70 - 130
trans-Nonachlor	1.98	1.97		ug/L		100	70 - 130
Trifluralin	1.98	2.06		ug/L		104	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Nitro-m-xylene	99		70 - 130
Perylene-d12	102		70 - 130
Triphenylphosphate	105		70 - 130

Lab Sample ID: MRL 380-244784/22-A

Matrix: Water

Analysis Batch: 245108

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 244784

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	0.0991	0.0981	J	ug/L		99	50 - 150
2,4'-DDD	0.0991	0.0917	J	ug/L		93	50 - 150
2,4'-DDE	0.0991	0.0978	J	ug/L		99	50 - 150
2,4'-DDT	0.0991	0.117		ug/L		118	50 - 150
2,4-Dinitrotoluene	0.0991	0.133		ug/L		134	50 - 150
2,6-Dinitrotoluene	0.0991	0.112		ug/L		113	50 - 150
2-Methylnaphthalene	0.0991	0.100		ug/L		101	50 - 150
4,4'-DDD	0.0991	0.109		ug/L		110	50 - 150
4,4'-DDE	0.0991	0.104		ug/L		105	50 - 150
4,4'-DDT	0.0991	0.113		ug/L		114	50 - 150
Acenaphthene	0.0991	0.0961	J	ug/L		97	50 - 150
Acenaphthylene	0.0991	0.0870	J	ug/L		88	50 - 150
Acetochlor	0.0991	0.102		ug/L		103	50 - 150

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QC Sample Results

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

Job ID: 380-228913-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: MRL 380-244784/22-A

Matrix: Water

Analysis Batch: 245108

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 244784

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Alachlor	0.0496	0.0544		ug/L		110	50 - 150
alpha-BHC	0.0991	0.103		ug/L		104	50 - 150
alpha-Chlordane	0.0248	0.0308	J	ug/L		124	50 - 150
Anthracene	0.0198	0.0241		ug/L		122	50 - 150
Atrazine	0.0496	0.0584		ug/L		118	50 - 150
Benz(a)anthracene	0.0496	0.0583		ug/L		118	50 - 150
Benzo[a]pyrene	0.0198	0.0269		ug/L		136	50 - 150
Benzo[b]fluoranthene	0.0198	0.0262		ug/L		132	50 - 150
Benzo[g,h,i]perylene	0.0496	0.0523		ug/L		106	50 - 150
Benzo[k]fluoranthene	0.0198	0.0250		ug/L		126	50 - 150
beta-BHC	0.0991	0.111		ug/L		112	50 - 150
Bis(2-ethylhexyl) phthalate	0.595	0.727		ug/L		122	50 - 150
Bromacil	0.0991	0.127		ug/L		128	50 - 150
Butachlor	0.0496	0.0647		ug/L		130	50 - 150
Butylbenzylphthalate	0.496	0.591		ug/L		119	50 - 150
Chlorobenzilate	0.0991	0.111		ug/L		112	50 - 150
Chloroneb	0.0991	0.102		ug/L		103	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0991	0.103		ug/L		104	50 - 150
Chlorpyrifos	0.0496	0.0554		ug/L		112	50 - 150
Chrysene	0.0198	0.0244		ug/L		123	50 - 150
delta-BHC	0.0991	0.113		ug/L		114	50 - 150
Di(2-ethylhexyl)adipate	0.595	0.693		ug/L		116	50 - 150
Dibenz(a,h)anthracene	0.0496	0.0579		ug/L		117	50 - 150
Diclorvos (DDVP)	0.0496	0.0543		ug/L		109	50 - 150
Dieldrin	0.00991	0.0115		ug/L		116	50 - 150
Diethylphthalate	0.496	0.564		ug/L		114	50 - 150
Dimethylphthalate	0.496	0.518		ug/L		105	50 - 150
Di-n-butyl phthalate	0.496	0.581	J	ug/L		117	49 - 243
Di-n-octyl phthalate	0.0991	0.125		ug/L		126	50 - 150
Endosulfan I (Alpha)	0.0991	0.0912	J	ug/L		92	50 - 150
Endosulfan II (Beta)	0.0991	0.119		ug/L		120	50 - 150
Endosulfan sulfate	0.0991	0.109		ug/L		110	50 - 150
Endrin	0.00991	0.0131		ug/L		132	50 - 150
Endrin aldehyde	0.0991	0.0997		ug/L		101	50 - 150
EPTC	0.0991	0.0999		ug/L		101	50 - 150
Fluoranthene	0.0991	0.107		ug/L		108	50 - 150
Fluorene	0.0496	0.0532		ug/L		107	50 - 150
gamma-Chlordane	0.0248	0.0263	J	ug/L		106	50 - 150
Heptachlor	0.00991	0.0111		ug/L		112	50 - 150
Heptachlor epoxide (isomer B)	0.00991	0.0113		ug/L		114	50 - 150
Hexachlorobenzene	0.0496	0.0452	J	ug/L		91	50 - 150
Hexachlorocyclopentadiene	0.0496	0.0481	J	ug/L		97	50 - 150
Indeno[1,2,3-cd]pyrene	0.0496	0.0594		ug/L		120	50 - 150
Isophorone	0.0991	0.0981	J	ug/L		99	50 - 150
Lindane	0.00991	0.0105		ug/L		105	50 - 150
Malathion	0.0991	0.112		ug/L		113	50 - 150
Methoxychlor	0.0496	0.0611		ug/L		123	50 - 150
Metolachlor	0.0496	0.0574		ug/L		116	50 - 150
Molinate	0.0991	0.112		ug/L		114	50 - 150

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QC Sample Results

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

Job ID: 380-228913-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: MRL 380-244784/22-A

Matrix: Water

Analysis Batch: 245108

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 244784

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Naphthalene	0.0991	0.101		ug/L		102	50 - 150
Parathion	0.0991	0.115		ug/L		116	50 - 150
Pendimethalin (Penoxaline)	0.0991	0.120		ug/L		121	50 - 150
Phenanthrene	0.0396	0.0424		ug/L		107	50 - 150
Propachlor	0.0496	0.0559		ug/L		113	50 - 150
Pyrene	0.0496	0.0572		ug/L		115	50 - 150
Simazine	0.0496	0.0532		ug/L		107	50 - 150
Terbacil	0.0991	0.111		ug/L		112	50 - 150
Terbutylazine	0.0991	0.110		ug/L		111	50 - 150
Thiobencarb	0.0991	0.111		ug/L		112	50 - 150
trans-Nonachlor	0.0248	0.0304	J	ug/L		123	50 - 150
Trifluralin	0.0991	0.107		ug/L		108	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
2-Nitro-m-xylene	97		70 - 130
Perylene-d12	95		70 - 130
Triphenylphosphate	103		70 - 130

Lab Sample ID: 380-228880-I-1-A MS

Matrix: Water

Analysis Batch: 245108

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 244784

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.097		1.96	1.96		ug/L		100	70 - 130
2,4'-DDD	<0.097		1.96	2.08		ug/L		106	70 - 130
2,4'-DDE	<0.097		1.96	1.90		ug/L		97	70 - 130
2,4'-DDT	<0.097		1.96	1.88		ug/L		96	70 - 130
2,4-Dinitrotoluene	<0.097		1.96	2.21		ug/L		113	70 - 130
2,6-Dinitrotoluene	<0.097		1.96	2.11		ug/L		108	70 - 130
2-Methylnaphthalene	<0.097		1.96	1.99		ug/L		101	70 - 130
4,4'-DDD	<0.097		1.96	2.08		ug/L		107	70 - 130
4,4'-DDE	<0.097		1.96	2.01		ug/L		102	70 - 130
4,4'-DDT	<0.097		1.96	1.84		ug/L		94	70 - 130
Acenaphthene	<0.097		1.96	2.03		ug/L		104	70 - 130
Acenaphthylene	<0.097		1.96	1.95		ug/L		100	70 - 130
Acetochlor	<0.097		1.96	2.12		ug/L		108	70 - 130
Alachlor	<0.049		1.96	2.11		ug/L		108	70 - 130
alpha-BHC	<0.097		1.96	1.98		ug/L		101	70 - 130
alpha-Chlordane	<0.049		1.96	1.99		ug/L		101	70 - 130
Anthracene	<0.019		1.96	1.66		ug/L		85	70 - 130
Atrazine	<0.049		1.96	2.12		ug/L		108	70 - 130
Benz(a)anthracene	<0.049		1.96	1.97		ug/L		100	70 - 130
Benzo[a]pyrene	<0.019		1.96	2.03		ug/L		104	70 - 130
Benzo[b]fluoranthene	<0.019		1.96	2.14		ug/L		109	70 - 130
Benzo[g,h,i]perylene	<0.049		1.96	2.10		ug/L		107	70 - 130
Benzo[k]fluoranthene	<0.019		1.96	2.17		ug/L		111	70 - 130
beta-BHC	<0.097		1.96	1.98		ug/L		101	70 - 130
Bis(2-ethylhexyl) phthalate	<0.58		1.96	2.05		ug/L		105	70 - 130

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QC Sample Results

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

Job ID: 380-228913-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: 380-228880-I-1-A MS

Matrix: Water

Analysis Batch: 245108

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 244784

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Bromacil	<0.097		1.96	1.97		ug/L		101	70 - 130
Butachlor	<0.049		1.96	2.21		ug/L		113	70 - 130
Butylbenzylphthalate	<0.49		1.96	2.20		ug/L		112	70 - 130
Chlorobenzilate	<0.097		1.96	2.16		ug/L		110	70 - 130
Chloroneb	<0.097		1.96	1.98		ug/L		101	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.097		1.96	1.91		ug/L		98	70 - 130
Chlorpyrifos	<0.049		1.96	2.06		ug/L		105	70 - 130
Chrysene	<0.019		1.96	2.06		ug/L		105	70 - 130
delta-BHC	<0.097		1.96	1.93		ug/L		99	70 - 130
Di(2-ethylhexyl)adipate	<0.58		1.96	2.12		ug/L		109	70 - 130
Dibenz(a,h)anthracene	<0.049		1.96	2.03		ug/L		104	70 - 130
Diclorvos (DDVP)	<0.049		1.96	2.04		ug/L		104	70 - 130
Dieldrin	0.021		1.96	1.98		ug/L		100	70 - 130
Diethylphthalate	<0.49		1.96	2.18		ug/L		111	70 - 130
Dimethylphthalate	<0.49		1.96	2.06		ug/L		105	70 - 130
Di-n-butyl phthalate	<0.97		3.91	4.25		ug/L		109	70 - 130
Di-n-octyl phthalate	<0.097		1.96	1.95		ug/L		99	70 - 130
Endosulfan I (Alpha)	<0.097		1.96	1.95		ug/L		100	70 - 130
Endosulfan II (Beta)	<0.097		1.96	1.98		ug/L		101	70 - 130
Endosulfan sulfate	<0.097		1.96	1.89		ug/L		97	70 - 130
Endrin	<0.0097		1.96	2.08		ug/L		106	70 - 130
Endrin aldehyde	<0.097		1.96	1.53		ug/L		78	60 - 130
EPTC	<0.097		1.96	2.10		ug/L		107	70 - 130
Fluoranthene	<0.097		1.96	2.16		ug/L		110	70 - 130
Fluorene	<0.049		1.96	2.05		ug/L		105	70 - 130
gamma-Chlordane	<0.049		1.96	1.97		ug/L		100	70 - 130
Heptachlor	<0.0097		1.96	1.87		ug/L		96	70 - 130
Heptachlor epoxide (isomer B)	<0.0097		1.96	2.05		ug/L		105	70 - 130
Hexachlorobenzene	<0.049		1.96	1.93		ug/L		99	70 - 130
Hexachlorocyclopentadiene	<0.049		1.96	1.75		ug/L		89	70 - 130
Indeno[1,2,3-cd]pyrene	<0.049		1.96	2.08		ug/L		106	70 - 130
Isophorone	<0.097		1.96	2.00		ug/L		102	70 - 130
Lindane	<0.0097		1.96	1.96		ug/L		100	70 - 130
Malathion	<0.097		1.96	2.10		ug/L		107	70 - 130
Methoxychlor	<0.049		1.96	2.20		ug/L		113	70 - 130
Metolachlor	<0.049		1.96	2.09		ug/L		107	70 - 130
Molinate	<0.097		1.96	2.13		ug/L		109	70 - 130
Naphthalene	<0.097		1.96	1.95		ug/L		100	70 - 130
Parathion	<0.097		1.96	2.34		ug/L		120	70 - 130
Pendimethalin (Penoxaline)	<0.097		1.96	2.17		ug/L		111	70 - 130
Phenanthrene	<0.039		1.96	2.00		ug/L		102	70 - 130
Propachlor	<0.049		1.96	2.14		ug/L		109	70 - 130
Pyrene	<0.049		1.96	2.10		ug/L		107	70 - 130
Simazine	<0.049		1.96	2.04		ug/L		104	70 - 130
Terbacil	<0.097		1.96	2.17		ug/L		111	70 - 130
Terbuthylazine	<0.097		1.96	2.19		ug/L		112	70 - 130
Thiobencarb	<0.097		1.96	2.11		ug/L		108	70 - 130
trans-Nonachlor	<0.049		1.96	1.98		ug/L		101	70 - 130
Trifluralin	<0.097		1.96	2.09		ug/L		107	70 - 130

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QC Sample Results

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

Job ID: 380-228913-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
2-Nitro-m-xylene	99		70 - 130
Perylene-d12	103		70 - 130
Triphenylphosphate	106		70 - 130

Lab Sample ID: 380-228883-I-1-A DU
Matrix: Water
Analysis Batch: 245108

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 244784

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
1-Methylnaphthalene	<0.097		<0.097		ug/L		NC	20
2,4'-DDD	<0.097		<0.097		ug/L		NC	20
2,4'-DDE	<0.097		<0.097		ug/L		NC	20
2,4'-DDT	<0.097		<0.097		ug/L		NC	20
2,4-Dinitrotoluene	<0.097		<0.097		ug/L		NC	20
2,6-Dinitrotoluene	<0.097		<0.097		ug/L		NC	20
2-Methylnaphthalene	<0.097		<0.097		ug/L		NC	20
4,4'-DDD	<0.097		<0.097		ug/L		NC	20
4,4'-DDE	<0.097		<0.097		ug/L		NC	20
4,4'-DDT	<0.097		<0.097		ug/L		NC	20
Acenaphthene	<0.097		<0.097		ug/L		NC	20
Acenaphthylene	<0.097		<0.097		ug/L		NC	20
Acetochlor	<0.097		<0.097		ug/L		NC	20
Alachlor	<0.049		<0.048		ug/L		NC	20
alpha-BHC	<0.097		<0.097		ug/L		NC	20
alpha-Chlordane	<0.049		<0.048		ug/L		NC	20
Anthracene	<0.019		<0.019		ug/L		NC	20
Atrazine	<0.049		<0.048		ug/L		NC	20
Benz(a)anthracene	<0.049		<0.048		ug/L		NC	20
Benzo[a]pyrene	<0.019		<0.019		ug/L		NC	20
Benzo[b]fluoranthene	<0.019		<0.019		ug/L		NC	20
Benzo[g,h,i]perylene	<0.049		<0.048		ug/L		NC	20
Benzo[k]fluoranthene	<0.019		<0.019		ug/L		NC	20
beta-BHC	<0.097		<0.097		ug/L		NC	20
Bis(2-ethylhexyl) phthalate	<0.58		<0.58		ug/L		NC	20
Bromacil	<0.097		<0.097		ug/L		NC	20
Butachlor	<0.049		<0.048		ug/L		NC	20
Butylbenzylphthalate	<0.49		<0.48		ug/L		NC	20
Chlorobenzilate	<0.097		<0.097		ug/L		NC	20
Chloroneb	<0.097		<0.097		ug/L		NC	20
Chlorothalonil (Draconil, Bravo)	<0.097		<0.097		ug/L		NC	20
Chlorpyrifos	<0.049		<0.048		ug/L		NC	20
Chrysene	<0.019		<0.019		ug/L		NC	20
delta-BHC	<0.097		<0.097		ug/L		NC	20
Di(2-ethylhexyl)adipate	<0.58		<0.58		ug/L		NC	20
Dibenz(a,h)anthracene	<0.049		<0.048		ug/L		NC	20
Diclorvos (DDVP)	<0.049		<0.048		ug/L		NC	20
Dieldrin	0.035		0.0353		ug/L		0	20
Diethylphthalate	<0.49		<0.48		ug/L		NC	20
Dimethylphthalate	<0.49		<0.48		ug/L		NC	20
Di-n-butyl phthalate	<0.97		<0.97		ug/L		NC	20
Di-n-octyl phthalate	<0.097		<0.097		ug/L		NC	20

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QC Sample Results

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

Job ID: 380-228913-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: 380-228883-I-1-A DU

Matrix: Water

Analysis Batch: 245108

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 244784

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Endosulfan I (Alpha)	<0.097		<0.097		ug/L		NC	20
Endosulfan II (Beta)	<0.097		<0.097		ug/L		NC	20
Endosulfan sulfate	<0.097		<0.097		ug/L		NC	20
Endrin	<0.0097		<0.0097		ug/L		NC	20
Endrin aldehyde	<0.097		<0.097		ug/L		NC	20
EPTC	<0.097		<0.097		ug/L		NC	20
Fluoranthene	<0.097		<0.097		ug/L		NC	20
Fluorene	<0.049		<0.048		ug/L		NC	20
gamma-Chlordane	<0.049		<0.048		ug/L		NC	20
Heptachlor	<0.0097		<0.0097		ug/L		NC	20
Heptachlor epoxide (isomer B)	0.016		0.0177		ug/L		11	20
Hexachlorobenzene	<0.049		<0.048		ug/L		NC	20
Hexachlorocyclopentadiene	<0.049		<0.048		ug/L		NC	20
Indeno[1,2,3-cd]pyrene	<0.049		<0.048		ug/L		NC	20
Isophorone	<0.097		<0.097		ug/L		NC	20
Lindane	<0.0097		<0.0097		ug/L		NC	20
Malathion	<0.097		<0.097		ug/L		NC	20
Methoxychlor	<0.049		<0.048		ug/L		NC	20
Metolachlor	<0.049		<0.048		ug/L		NC	20
Molinate	<0.097		<0.097		ug/L		NC	20
Naphthalene	<0.097		<0.097		ug/L		NC	20
Parathion	<0.097		<0.097		ug/L		NC	20
Pendimethalin (Penoxaline)	<0.097		<0.097		ug/L		NC	20
Phenanthrene	<0.039		<0.039		ug/L		NC	20
Propachlor	<0.049		<0.048		ug/L		NC	20
Pyrene	<0.049		<0.048		ug/L		NC	20
Simazine	<0.049		<0.048		ug/L		NC	20
Terbacil	<0.097		<0.097		ug/L		NC	20
Terbutylazine	<0.097		<0.097		ug/L		NC	20
Thiobencarb	<0.097		<0.097		ug/L		NC	20
Total Permethrin (mixed isomers)	<0.19		<0.19		ug/L		NC	20
trans-Nonachlor	<0.049		<0.048		ug/L		NC	20
Trifluralin	<0.097		<0.097		ug/L		NC	20

Surrogate	DU %Recovery	DU Qualifier	Limits
2-Nitro-m-xylene	99		70 - 130
Perylene-d12	97		70 - 130
Triphenylphosphate	105		70 - 130

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

Lab Sample ID: MB 570-781834/1-A

Matrix: Water

Analysis Batch: 786434

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 781834

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	08/10/26 07:52	08/19/26 00:51	1

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QC Sample Results

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

Job ID: 380-228913-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: MB 570-781834/1-A

Matrix: Water

Analysis Batch: 786434

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 781834

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	100		33 - 139	08/10/26 07:52	08/19/26 00:51	1
2-Fluorobiphenyl (Surr)	96		33 - 126	08/10/26 07:52	08/19/26 00:51	1
2-Fluorophenol (Surr)	58		12 - 120	08/10/26 07:52	08/19/26 00:51	1
Nitrobenzene-d5 (Surr)	92		36 - 120	08/10/26 07:52	08/19/26 00:51	1
Phenol-d6 (Surr)	32		10 - 120	08/10/26 07:52	08/19/26 00:51	1
p-Terphenyl-d14 (Surr)	94		47 - 131	08/10/26 07:52	08/19/26 00:51	1

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

Lab Sample ID: MB 570-781834/1-A

Matrix: Water

Analysis Batch: 784157

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 781834

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.20		0.20	ug/L		08/10/26 07:52	08/14/26 01:31	1
2-Methylnaphthalene	<0.20		0.20	ug/L		08/10/26 07:52	08/14/26 01:31	1
Acenaphthene	<0.20		0.20	ug/L		08/10/26 07:52	08/14/26 01:31	1
Acenaphthylene	<0.20		0.20	ug/L		08/10/26 07:52	08/14/26 01:31	1
Anthracene	<0.20		0.20	ug/L		08/10/26 07:52	08/14/26 01:31	1
Benzo[a]anthracene	<0.20		0.20	ug/L		08/10/26 07:52	08/14/26 01:31	1
Benzo[a]pyrene	<0.20		0.20	ug/L		08/10/26 07:52	08/14/26 01:31	1
Benzo[b]fluoranthene	<0.20		0.20	ug/L		08/10/26 07:52	08/14/26 01:31	1
Benzo[g,h,i]perylene	<0.20		0.20	ug/L		08/10/26 07:52	08/14/26 01:31	1
Benzo[k]fluoranthene	<0.20		0.20	ug/L		08/10/26 07:52	08/14/26 01:31	1
Chrysene	<0.20		0.20	ug/L		08/10/26 07:52	08/14/26 01:31	1
Dibenz[a,h]anthracene	<0.20		0.20	ug/L		08/10/26 07:52	08/14/26 01:31	1
Fluoranthene	<0.20		0.20	ug/L		08/10/26 07:52	08/14/26 01:31	1
Fluorene	<0.20		0.20	ug/L		08/10/26 07:52	08/14/26 01:31	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20	ug/L		08/10/26 07:52	08/14/26 01:31	1
Naphthalene	<0.20		0.20	ug/L		08/10/26 07:52	08/14/26 01:31	1
Phenanthrene	<0.20		0.20	ug/L		08/10/26 07:52	08/14/26 01:31	1
Pyrene	<0.20		0.20	ug/L		08/10/26 07:52	08/14/26 01:31	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	100		28 - 127	08/10/26 07:52	08/14/26 01:31	1
2-Fluorobiphenyl (Surr)	86		31 - 120	08/10/26 07:52	08/14/26 01:31	1
2-Fluorophenol (Surr)	62		17 - 120	08/10/26 07:52	08/14/26 01:31	1
Nitrobenzene-d5 (Surr)	93		27 - 120	08/10/26 07:52	08/14/26 01:31	1
Phenol-d6 (Surr)	37		10 - 120	08/10/26 07:52	08/14/26 01:31	1
p-Terphenyl-d14 (Surr)	79		45 - 120	08/10/26 07:52	08/14/26 01:31	1

Lab Sample ID: LCS 570-781834/2-A

Matrix: Water

Analysis Batch: 784157

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 781834

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	20.0	13.5		ug/L		68	47 - 120
2-Methylnaphthalene	20.0	13.0		ug/L		65	43 - 120

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QC Sample Results

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

Job ID: 380-228913-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: LCS 570-781834/2-A

Matrix: Water

Analysis Batch: 784157

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 781834

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	20.0	18.6		ug/L		93	60 - 132
Acenaphthylene	20.0	18.4		ug/L		92	54 - 126
Anthracene	20.0	19.1		ug/L		95	43 - 120
Benzo[a]anthracene	20.0	22.0		ug/L		110	42 - 133
Benzo[a]pyrene	20.0	26.4		ug/L		132	32 - 148
Benzo[b]fluoranthene	20.0	23.5		ug/L		118	42 - 140
Benzo[g,h,i]perylene	20.0	19.3		ug/L		96	1 - 195
Benzo[k]fluoranthene	20.0	22.2		ug/L		111	25 - 146
Chrysene	20.0	20.7		ug/L		104	44 - 140
Dibenz(a,h)anthracene	20.0	20.2		ug/L		101	1 - 200
Fluoranthene	20.0	20.9		ug/L		105	43 - 121
Fluorene	20.0	19.8		ug/L		99	70 - 120
Indeno[1,2,3-cd]pyrene	20.0	19.4		ug/L		97	1 - 151
Naphthalene	20.0	11.5		ug/L		57	36 - 120
Phenanthrene	20.0	18.7		ug/L		94	65 - 120
Pyrene	20.0	21.7		ug/L		109	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	101		28 - 127
2-Fluorobiphenyl (Surr)	96		31 - 120
2-Fluorophenol (Surr)	83		17 - 120
Nitrobenzene-d5 (Surr)	73		27 - 120
Phenol-d6 (Surr)	54		10 - 120
p-Terphenyl-d14 (Surr)	107		45 - 120

Lab Sample ID: LCSD 570-781834/3-A

Matrix: Water

Analysis Batch: 784157

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 781834

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	20.0	13.1		ug/L		65	47 - 120	3	20
2-Methylnaphthalene	20.0	12.7		ug/L		63	43 - 120	3	20
Acenaphthene	20.0	17.9		ug/L		90	60 - 132	4	29
Acenaphthylene	20.0	17.6		ug/L		88	54 - 126	4	45
Anthracene	20.0	18.4		ug/L		92	43 - 120	3	40
Benzo[a]anthracene	20.0	21.2		ug/L		106	42 - 133	4	32
Benzo[a]pyrene	20.0	24.7		ug/L		124	32 - 148	7	43
Benzo[b]fluoranthene	20.0	22.4		ug/L		112	42 - 140	5	43
Benzo[g,h,i]perylene	20.0	18.5		ug/L		93	1 - 195	4	61
Benzo[k]fluoranthene	20.0	20.9		ug/L		105	25 - 146	6	38
Chrysene	20.0	20.2		ug/L		101	44 - 140	3	53
Dibenz(a,h)anthracene	20.0	19.9		ug/L		99	1 - 200	2	75
Fluoranthene	20.0	20.0		ug/L		100	43 - 121	4	40
Fluorene	20.0	19.0		ug/L		95	70 - 120	4	23
Indeno[1,2,3-cd]pyrene	20.0	18.7		ug/L		94	1 - 151	3	60
Naphthalene	20.0	11.2		ug/L		56	36 - 120	3	39
Phenanthrene	20.0	18.1		ug/L		91	65 - 120	3	24
Pyrene	20.0	21.2		ug/L		106	70 - 120	2	30

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QC Sample Results

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

Job ID: 380-228913-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: LCSD 570-781834/3-A

Matrix: Water

Analysis Batch: 784157

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 781834

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
2,4,6-Tribromophenol (Surr)	97		28 - 127
2-Fluorobiphenyl (Surr)	93		31 - 120
2-Fluorophenol (Surr)	81		17 - 120
Nitrobenzene-d5 (Surr)	70		27 - 120
Phenol d6 (Surr)	51		10 - 120
p-Terphenyl-d14 (Surr)	104		45 - 120

Lab Sample ID: 380-228883-A-1-A MS

Matrix: Water

Analysis Batch: 784157

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 781834

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.20		19.4	13.6		ug/L		70	36 - 120
2-Methylnaphthalene	<0.20		19.4	13.4		ug/L		69	32 - 124
Acenaphthene	<0.20		19.4	18.0		ug/L		93	47 - 145
Acenaphthylene	<0.20		19.4	17.8		ug/L		92	33 - 145
Anthracene	<0.20		19.4	18.4		ug/L		95	27 - 133
Benzo[a]anthracene	<0.20		19.4	20.9		ug/L		108	33 - 143
Benzo[a]pyrene	<0.20		19.4	24.0		ug/L		124	17 - 163
Benzo[b]fluoranthene	<0.20		19.4	21.6		ug/L		112	24 - 159
Benzo[g,h,i]perylene	<0.20		19.4	18.3		ug/L		95	1 - 219
Benzo[k]fluoranthene	<0.20		19.4	20.7		ug/L		107	11 - 162
Chrysene	<0.20		19.4	19.8		ug/L		103	17 - 168
Dibenz(a,h)anthracene	<0.20		19.4	19.3		ug/L		100	1 - 227
Fluoranthene	<0.20		19.4	20.0		ug/L		103	26 - 137
Fluorene	<0.20		19.4	19.1		ug/L		99	59 - 121
Indeno[1,2,3-cd]pyrene	<0.20		19.4	18.5		ug/L		96	1 - 171
Naphthalene	<0.20		19.4	11.6		ug/L		60	21 - 133
Phenanthrene	<0.20		19.4	18.1		ug/L		93	54 - 120
Pyrene	<0.20		19.4	20.8		ug/L		108	52 - 120

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
2,4,6-Tribromophenol (Surr)	99		28 - 127
2-Fluorobiphenyl (Surr)	92		31 - 120
2-Fluorophenol (Surr)	73		17 - 120
Nitrobenzene-d5 (Surr)	69		27 - 120
Phenol-d6 (Surr)	44		10 - 120
p-Terphenyl-d14 (Surr)	99		45 - 120

Lab Sample ID: 380-228883-A-1-B MSD

Matrix: Water

Analysis Batch: 784157

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 781834

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	<0.20		19.3	13.7		ug/L		71	36 - 120	1	30
2-Methylnaphthalene	<0.20		19.3	13.3		ug/L		69	32 - 124	1	30
Acenaphthene	<0.20		19.3	17.8		ug/L		92	47 - 145	1	48
Acenaphthylene	<0.20		19.3	17.1		ug/L		88	33 - 145	4	74

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QC Sample Results

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

Job ID: 380-228913-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: 380-228883-A-1-B MSD

Matrix: Water

Analysis Batch: 784157

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 781834

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Anthracene	<0.20		19.3	18.1		ug/L		94	27 - 133	2	66
Benzo[a]anthracene	<0.20		19.3	20.6		ug/L		107	33 - 143	2	53
Benzo[a]pyrene	<0.20		19.3	24.2		ug/L		125	17 - 163	1	72
Benzo[b]fluoranthene	<0.20		19.3	21.9		ug/L		113	24 - 159	1	71
Benzo[g,h,i]perylene	<0.20		19.3	18.5		ug/L		96	1 - 219	1	97
Benzo[k]fluoranthene	<0.20		19.3	20.4		ug/L		106	11 - 162	1	63
Chrysene	<0.20		19.3	19.5		ug/L		101	17 - 168	2	87
Dibenz(a,h)anthracene	<0.20		19.3	19.6		ug/L		102	1 - 227	2	126
Fluoranthene	<0.20		19.3	20.0		ug/L		104	26 - 137	0	66
Fluorene	<0.20		19.3	19.0		ug/L		98	59 - 121	1	38
Indeno[1,2,3-cd]pyrene	<0.20		19.3	18.5		ug/L		96	1 - 171	0	99
Naphthalene	<0.20		19.3	11.5		ug/L		59	21 - 133	1	65
Phenanthrene	<0.20		19.3	17.8		ug/L		92	54 - 120	2	39
Pyrene	<0.20		19.3	20.2		ug/L		105	52 - 120	3	49

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	95		28 - 127
2-Fluorobiphenyl (Surr)	91		31 - 120
2-Fluorophenol (Surr)	75		17 - 120
Nitrobenzene-d5 (Surr)	69		27 - 120
Phenol-d6 (Surr)	46		10 - 120
p-Terphenyl-d14 (Surr)	97		45 - 120

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

Lab Sample ID: MB 570-781313/6

Matrix: Water

Analysis Batch: 781313

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	<10		10	ug/L			08/08/26 12:57	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		38 - 134		08/08/26 12:57	1

Lab Sample ID: LCS 570-781313/3

Matrix: Water

Analysis Batch: 781313

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	398		ug/L		99	78 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	78		38 - 134

QC Sample Results

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

Job ID: 380-228913-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: LCSD 570-781313/4

Matrix: Water

Analysis Batch: 781313

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	379		ug/L		95	78 - 120	5	10
Surrogate	%Recovery	LCSD Qualifier	LCSD Limits						
4-Bromofluorobenzene (Surr)	99		38 - 134						

Lab Sample ID: MRL 570-781313/5

Matrix: Water

Analysis Batch: 781313

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

			Spike	MRL	MRL						
Analyte			Added	Result	Qualifier	Unit	D	%Rec	%Rec		
Gasoline Range Organics (C4-C13)			10.0	13.4		ug/L		134	50 - 150		
Surrogate	MRL	MRL									
	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	93		38 - 134								

Lab Sample ID: 380-228215-B-1 MS

Matrix: Water

Analysis Batch: 781313

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	RPD	RPD Limit
Gasoline Range Organics (C4-C13)	<10		400	362		ug/L		90	68 - 122		
Surrogate	%Recovery	MS Qualifier	MS Limits								
4-Bromofluorobenzene (Surr)	100		38 - 134								

Lab Sample ID: 380-228215-B-1 MSD

Matrix: Water

Analysis Batch: 781313

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	363		ug/L		91	68 - 122	0	18
Surrogate	%Recovery	MSD Qualifier	MSD Limits								
4-Bromofluorobenzene (Surr)	100		38 - 134								

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

Lab Sample ID: MB 570-780818/1-A

Matrix: Water

Analysis Batch: 785034

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 780818

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<25		25	ug/L		08/07/26 10:08	08/15/26 23:00	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		08/07/26 10:08	08/15/26 23:00	1
C8-C18	<25		25	ug/L		08/07/26 10:08	08/15/26 23:00	1

Eurofins Pomona

QC Sample Results

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

Job ID: 380-228913-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

				MB	MB												
Surrogate		%Recovery	Qualifier	Limits		Prepared				Analyzed		Dil Fac					
n-Octacosane (Surr)		104		60 - 130		08/07/26 10:08				08/15/26 23:00		1					
Lab Sample ID: LCS 570-780818/2-A						Client Sample ID: Lab Control Sample											
Matrix: Water						Prep Type: Total/NA											
Analysis Batch: 785034						Prep Batch: 780818											
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits								
C10-C28			1600	1540		ug/L		97	56 - 127								
		LCS	LCS														
Surrogate		%Recovery	Qualifier	Limits													
n-Octacosane (Surr)		120		60 - 130													
Lab Sample ID: LCSD 570-780818/3-A						Client Sample ID: Lab Control Sample Dup											
Matrix: Water						Prep Type: Total/NA											
Analysis Batch: 785034						Prep Batch: 780818											
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit						
C10-C28			1600	1220		ug/L		77	56 - 127	23	23						
		LCSD	LCSD														
Surrogate		%Recovery	Qualifier	Limits													
n-Octacosane (Surr)		97		60 - 130													
Lab Sample ID: MRL 570-780818/4-A						Client Sample ID: Lab Control Sample											
Matrix: Water						Prep Type: Total/NA											
Analysis Batch: 785034						Prep Batch: 780818											
Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits								
C10-C28			0.0200	0.0257		mg/L		129	50 - 150								
		MRL	MRL														
Surrogate		%Recovery	Qualifier	Limits													
n-Octacosane (Surr)		109		60 - 130													
Lab Sample ID: 380-228883-B-1-A MS						Client Sample ID: Matrix Spike											
Matrix: Water						Prep Type: Total/NA											
Analysis Batch: 785034						Prep Batch: 780818											
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits								
C10-C28	<26	F2	1630	1570		ug/L		96	70 - 130								
		MS	MS														
Surrogate		%Recovery	Qualifier	Limits													
n-Octacosane (Surr)		114		60 - 130													
Lab Sample ID: 380-228883-B-1-B MSD						Client Sample ID: Matrix Spike Duplicate											
Matrix: Water						Prep Type: Total/NA											
Analysis Batch: 785034						Prep Batch: 780818											
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit						
C10-C28	<26	F2	1650	1270	F2	ug/L		77	70 - 130	21	20						

Eurofins Pomona

QC Sample Results

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

Job ID: 380-228913-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: 380-228883-B-1-B MSD
Matrix: Water
Analysis Batch: 785034

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 780818

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
n-Octacosane (Surr)	99		60 - 130

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QC Association Summary

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

Job ID: 380-228913-1
SDG: Weekly: Aiea Gulch Wells Pump 1

GC/MS Semi VOA

Prep Batch: 244784

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-228913-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	525.2	
MB 380-244784/21-A	Method Blank	Total/NA	Water	525.2	
LCS 380-244784/23-A	Lab Control Sample	Total/NA	Water	525.2	
MRL 380-244784/22-A	Lab Control Sample	Total/NA	Water	525.2	
380-228880-I-1-A MS	Matrix Spike	Total/NA	Water	525.2	
380-228883-I-1-A DU	Duplicate	Total/NA	Water	525.2	

Analysis Batch: 245108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-228913-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	525.2	244784
MB 380-244784/21-A	Method Blank	Total/NA	Water	525.2	244784
LCS 380-244784/23-A	Lab Control Sample	Total/NA	Water	525.2	244784
MRL 380-244784/22-A	Lab Control Sample	Total/NA	Water	525.2	244784
380-228880-I-1-A MS	Matrix Spike	Total/NA	Water	525.2	244784
380-228883-I-1-A DU	Duplicate	Total/NA	Water	525.2	244784

Prep Batch: 781834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-228913-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	625.1	
MB 570-781834/1-A	Method Blank	Total/NA	Water	625.1	
LCS 570-781834/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 570-781834/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	
380-228883-A-1-A MS	Matrix Spike	Total/NA	Water	625.1	
380-228883-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	625.1	

Analysis Batch: 784157

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-228913-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	625.1 SIM	781834
MB 570-781834/1-A	Method Blank	Total/NA	Water	625.1 SIM	781834
LCS 570-781834/2-A	Lab Control Sample	Total/NA	Water	625.1 SIM	781834
LCSD 570-781834/3-A	Lab Control Sample Dup	Total/NA	Water	625.1 SIM	781834
380-228883-A-1-A MS	Matrix Spike	Total/NA	Water	625.1 SIM	781834
380-228883-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	625.1 SIM	781834

Analysis Batch: 786434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-228913-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	625.1	781834
MB 570-781834/1-A	Method Blank	Total/NA	Water	625.1	781834

GC VOA

Analysis Batch: 781313

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-228913-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	8015B GRO LL	
380-228913-2	TB: AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Water	8015B GRO LL	
MB 570-781313/6	Method Blank	Total/NA	Water	8015B GRO LL	
LCS 570-781313/3	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-781313/4	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	
MRL 570-781313/5	Lab Control Sample	Total/NA	Water	8015B GRO LL	
380-228215-B-1 MS	Matrix Spike	Total/NA	Water	8015B GRO LL	
380-228215-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8015B GRO LL	

Eurofins Pomona

QC Association Summary

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

Job ID: 380-228913-1
SDG: Weekly: Aiea Gulch Wells Pump 1

GC Semi VOA

Prep Batch: 780818

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-228913-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	3510C	
MB 570-780818/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-780818/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-780818/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-780818/4-A	Lab Control Sample	Total/NA	Water	3510C	
380-228883-B-1-A MS	Matrix Spike	Total/NA	Water	3510C	
380-228883-B-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

Analysis Batch: 785034

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-228913-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	8015B	780818
MB 570-780818/1-A	Method Blank	Total/NA	Water	8015B	780818
LCS 570-780818/2-A	Lab Control Sample	Total/NA	Water	8015B	780818
LCSD 570-780818/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	780818
MRL 570-780818/4-A	Lab Control Sample	Total/NA	Water	8015B	780818
380-228883-B-1-A MS	Matrix Spike	Total/NA	Water	8015B	780818
380-228883-B-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	8015B	780818

Lab Chronicle

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

Job ID: 380-228913-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: 380-228913-1

Date Collected: 08/03/26 10:59

Matrix: Drinking Water

Date Received: 08/05/26 09:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			244784	OTM3	EA POM	08/06/26 09:12
Total/NA	Analysis	525.2		1	245108	UPAC	EA POM	08/07/26 20:45
Total/NA	Prep	625.1			781834	KLZQ	EET CAL 4	08/10/26 07:53
Total/NA	Analysis	625.1		1	786434	S4EA	EET CAL 4	08/19/26 03:05
Total/NA	Prep	625.1			781834	KLZQ	EET CAL 4	08/10/26 07:53
Total/NA	Analysis	625.1 SIM		1	784157	S4EA	EET CAL 4	08/14/26 06:41
Total/NA	Analysis	8015B GRO LL		1	781313	7CF2	EET CAL 4	08/08/26 20:20
Total/NA	Prep	3510C			780818	ATRL	EET CAL 4	08/07/26 10:09
Total/NA	Analysis	8015B		1	785034	H6FE	EET CAL 4	08/16/26 11:38

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

Lab Sample ID: 380-228913-2

Date Collected: 08/03/26 10:59

Matrix: Water

Date Received: 08/05/26 09:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	781313	7CF2	EET CAL 4	08/08/26 15:51

Laboratory References:

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

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

Accreditation/Certification Summary

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

Job ID: 380-228913-1
SDG: Weekly: Aiea Gulch Wells Pump 1

Laboratory: Eurofins Pomona

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

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

Laboratory: Eurofins Calscience

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

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	7296.01	11-30-26
A2LA	ISO/IEC 17025	7296.01	11-30-26
Alaska (UST)	State	25-005	03-02-27
Arizona	State	AZ0830	11-17-26
California	Los Angeles County Sanitation Districts	9257304	07-31-28
California	SCAQMD LAP	17LA0919	11-30-26

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

Eurofins Pomona

Accreditation/Certification Summary

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

Job ID: 380-228913-1
SDG: Weekly: Aiea Gulch Wells Pump 1

Laboratory: Eurofins Calscience (Continued)

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

Authority	Program	Identification Number	Expiration Date
California	State	3082	07-31-28
Kansas	NELAP	E-10420	07-31-27
Nevada	State	CA00111	07-31-27
Oregon	NELAP	4175	02-02-27
Texas	NELAP	T104704499	07-31-27
USDA	US Federal Programs	525-23-159-97150	09-30-26
Utah	NELAP	CA00111	02-28-27
Washington	State	C916	10-12-26

Method Summary

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

Job ID: 380-228913-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

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

Sample Summary

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

Job ID: 380-228913-1
SDG: Weekly: Aiea Gulch Wells Pump 1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	PWSID Number
380-228913-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Drinking Water	08/03/26 10:59	08/05/26 09:51	HI0000331
380-228913-2	TB: AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Water	08/03/26 10:59	08/05/26 09:51	

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Chain of Custody Record

Client Information		Lab Pkt:		Carrier Tracking No(s):		COC No:										
bailey		Lopez, Maria														
Phone: +1 808 748 5840		E-Mail: Maria.Lopez@eurofins.com		Page 1 of 1		Job #:										
Company: City & County of Honolulu		PMSID:		Analysis Requested		Preservation Codes:										
Address: 630 South Beretania Street Chemistry Lab		Due Date Requested:		TAT Requested (days):		RA - NaThioSO4										
City: Honolulu		Compliance Project: Δ Yes Δ No		PO #: C20525101 exp 05312023		Q - Na2SO3										
State, Zip: HI, 96843		PO #: C20525101 exp 05312023		WO #:		QA - Na2SO3/HCl										
Phone: 808-748-5840 (Tel)		Project #: 38001111		SSOWE:		Y - Trizma										
Email: kwamoto@hhbws.org		Project Name: RED-HILL/HBWS Sites Event Desc: RUSH Weekly Red Hill		Site: Hawaii		I - NH4 Acetate										
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Invert, Swab, On-slab, A=U)	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_CS - HNL Ranges: C19-C24/C24-C36/C8-C18	625.2_PREC - (MOD) 525plus Plus TICA	627.1_DW_PREC - 627.1 Full List	623 - All Analytes	Total Number of Containers	Special Instructions/Note:	
Aiea Gulch Wells Pump 1 (331-201-TP071)	3-Aug-2026	1059	G	Water												
Aiea Gulch Wells Pump 1 (331-201-TP071) (Matrix Spike)				Water												
Aiea Gulch Wells Pump 1 (331-201-TP071) (Matrix Spike Duplicate)				Water												
TB: Aiea Gulch Wells Pump 1 (331-201-TP071)	3-Aug-2026	1059		Water												
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological																
Deliverable Requested: I, II, III, IV, Other (specify)																
Empty Kit Relinquished by: Date: Time: Method of Shipment: FedEx: 874322766359																
Received by: Date/Time: 8/15/26 951 Company: EEP																
Received by: Date/Time: Company:																
Received by: Date/Time: Company:																
Cooler Temperature(s) °C and Other Remarks: (631A) 2.8 + 0.0 - 7.8 901-15026																
Custody Seal Intact: Δ Yes Δ No																

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-228913-1

SDG Number: Weekly: Aiea Gulch Wells Pump 1

Login Number: 228913

List Number: 1

Creator: Edrosa, Rey

List Source: Eurofins Pomona

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

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-228913-1
SDG Number: Weekly: Aiea Gulch Wells Pump 1

Login Number: 228913

List Number: 2

Creator: Khana, Piyush

List Source: Eurofins Calscience

List Creation: 08/06/26 02:14 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.5
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	fgf5
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	