

ANALYTICAL REPORT

PREPARED FOR

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JOB DESCRIPTION

RED-HILL
Weekly: Halawa Wells P1 (MS/MSD)
RUSH Weekly Red Hill

JOB NUMBER

380-230428-1

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: 380-230428-1
SDG: Weekly: Halawa Wells P1 (MS/MSD)

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD 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.

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: 380-230428-1

Job ID: 380-230428-1

Eurofins Pomona

Job Narrative 380-230428-1

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 8/12/2026 9:50 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.5°C and 3.0°C.

GC/MS Semi VOA

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

Gasoline Range Organics

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

Diesel Range Organics

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

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Detection Summary

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

Job ID: 380-230428-1
SDG: Weekly: Halawa Wells P1 (MS/MSD)

Client Sample ID: HALAWA WELLS P1 (331-023-WL065)
PWSID Number: HI0000331

Lab Sample ID: 380-230428-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Dieldrin	0.032		0.0097	ug/L	1		525.2	Total/NA
Heptachlor epoxide (isomer B)	0.015		0.0097	ug/L	1		525.2	Total/NA

Client Sample ID: TB: HALAWA WELLS P1 (331-023-WL065)

Lab Sample ID: 380-230428-2

No Detections.

Client Sample Results

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

Job ID: 380-230428-1
SDG: Weekly: Halawa Wells P1 (MS/MSD)

Client Sample ID: HALAWA WELLS P1 (331-023-WL065)

Lab Sample ID: 380-230428-1

Date Collected: 08/10/26 10:32

Matrix: Drinking Water

Date Received: 08/12/26 09:50

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.097		0.097	ug/L		08/14/26 10:52	08/20/26 10:20	1
2,4'-DDD	<0.097		0.097	ug/L		08/14/26 10:52	08/20/26 10:20	1
2,4'-DDE	<0.097		0.097	ug/L		08/14/26 10:52	08/20/26 10:20	1
2,4'-DDT	<0.097		0.097	ug/L		08/14/26 10:52	08/20/26 10:20	1
2,4-Dinitrotoluene	<0.097		0.097	ug/L		08/14/26 10:52	08/20/26 10:20	1
2,6-Dinitrotoluene	<0.097		0.097	ug/L		08/14/26 10:52	08/20/26 10:20	1
2-Methylnaphthalene	<0.097		0.097	ug/L		08/14/26 10:52	08/20/26 10:20	1
4,4'-DDD	<0.097		0.097	ug/L		08/14/26 10:52	08/20/26 10:20	1
4,4'-DDE	<0.097		0.097	ug/L		08/14/26 10:52	08/20/26 10:20	1
4,4'-DDT	<0.097		0.097	ug/L		08/14/26 10:52	08/20/26 10:20	1
Acenaphthene	<0.097		0.097	ug/L		08/14/26 10:52	08/20/26 10:20	1
Acenaphthylene	<0.097		0.097	ug/L		08/14/26 10:52	08/20/26 10:20	1
Acetochlor	<0.097		0.097	ug/L		08/14/26 10:52	08/20/26 10:20	1
Alachlor	<0.048		0.048	ug/L		08/14/26 10:52	08/20/26 10:20	1
alpha-BHC	<0.097		0.097	ug/L		08/14/26 10:52	08/20/26 10:20	1
alpha-Chlordane	<0.048		0.048	ug/L		08/14/26 10:52	08/20/26 10:20	1
Anthracene	<0.019		0.019	ug/L		08/14/26 10:52	08/20/26 10:20	1
Atrazine	<0.048		0.048	ug/L		08/14/26 10:52	08/20/26 10:20	1
Benz(a)anthracene	<0.048		0.048	ug/L		08/14/26 10:52	08/20/26 10:20	1
Benzo[a]pyrene	<0.019		0.019	ug/L		08/14/26 10:52	08/20/26 10:20	1
Benzo[b]fluoranthene	<0.019		0.019	ug/L		08/14/26 10:52	08/20/26 10:20	1
Benzo[g,h,i]perylene	<0.048		0.048	ug/L		08/14/26 10:52	08/20/26 10:20	1
Benzo[k]fluoranthene	<0.019		0.019	ug/L		08/14/26 10:52	08/20/26 10:20	1
beta-BHC	<0.097		0.097	ug/L		08/14/26 10:52	08/20/26 10:20	1
Bis(2-ethylhexyl) phthalate	<0.58		0.58	ug/L		08/14/26 10:52	08/20/26 10:20	1
Bromacil	<0.097		0.097	ug/L		08/14/26 10:52	08/20/26 10:20	1
Butachlor	<0.048		0.048	ug/L		08/14/26 10:52	08/20/26 10:20	1
Butylbenzylphthalate	<0.48		0.48	ug/L		08/14/26 10:52	08/20/26 10:20	1
Chlorobenzilate	<0.097		0.097	ug/L		08/14/26 10:52	08/20/26 10:20	1
Chloroneb	<0.097		0.097	ug/L		08/14/26 10:52	08/20/26 10:20	1
Chlorothalonil (Draconil, Bravo)	<0.097		0.097	ug/L		08/14/26 10:52	08/20/26 10:20	1
Chlorpyrifos	<0.048		0.048	ug/L		08/14/26 10:52	08/20/26 10:20	1
Chrysene	<0.019		0.019	ug/L		08/14/26 10:52	08/20/26 10:20	1
delta-BHC	<0.097		0.097	ug/L		08/14/26 10:52	08/20/26 10:20	1
Di(2-ethylhexyl)adipate	<0.58		0.58	ug/L		08/14/26 10:52	08/20/26 10:20	1
Dibenz(a,h)anthracene	<0.048		0.048	ug/L		08/14/26 10:52	08/20/26 10:20	1
Diclorvos (DDVP)	<0.048		0.048	ug/L		08/14/26 10:52	08/20/26 10:20	1
Dieldrin	0.032		0.0097	ug/L		08/14/26 10:52	08/20/26 10:20	1
Diethylphthalate	<0.48		0.48	ug/L		08/14/26 10:52	08/20/26 10:20	1
Dimethylphthalate	<0.48		0.48	ug/L		08/14/26 10:52	08/20/26 10:20	1
Di-n-butyl phthalate	<0.97		0.97	ug/L		08/14/26 10:52	08/20/26 10:20	1
Di-n-octyl phthalate	<0.097		0.097	ug/L		08/14/26 10:52	08/20/26 10:20	1
Endosulfan I (Alpha)	<0.097		0.097	ug/L		08/14/26 10:52	08/20/26 10:20	1
Endosulfan II (Beta)	<0.097		0.097	ug/L		08/14/26 10:52	08/20/26 10:20	1
Endosulfan sulfate	<0.097		0.097	ug/L		08/14/26 10:52	08/20/26 10:20	1
Endrin	<0.0097		0.0097	ug/L		08/14/26 10:52	08/20/26 10:20	1
Endrin aldehyde	<0.097		0.097	ug/L		08/14/26 10:52	08/20/26 10:20	1
EPTC	<0.097		0.097	ug/L		08/14/26 10:52	08/20/26 10:20	1
Fluoranthene	<0.097		0.097	ug/L		08/14/26 10:52	08/20/26 10:20	1

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Client Sample Results

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

Job ID: 380-230428-1
SDG: Weekly: Halawa Wells P1 (MS/MSD)

Client Sample ID: HALAWA WELLS P1 (331-023-WL065)

Lab Sample ID: 380-230428-1

Date Collected: 08/10/26 10:32

Matrix: Drinking Water

Date Received: 08/12/26 09:50

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	<0.048		0.048	ug/L		08/14/26 10:52	08/20/26 10:20	1
gamma-Chlordane	<0.048		0.048	ug/L		08/14/26 10:52	08/20/26 10:20	1
Heptachlor	<0.0097		0.0097	ug/L		08/14/26 10:52	08/20/26 10:20	1
Heptachlor epoxide (isomer B)	0.015		0.0097	ug/L		08/14/26 10:52	08/20/26 10:20	1
Hexachlorobenzene	<0.048		0.048	ug/L		08/14/26 10:52	08/20/26 10:20	1
Hexachlorocyclopentadiene	<0.048		0.048	ug/L		08/14/26 10:52	08/20/26 10:20	1
Indeno[1,2,3-cd]pyrene	<0.048		0.048	ug/L		08/14/26 10:52	08/20/26 10:20	1
Isophorone	<0.097		0.097	ug/L		08/14/26 10:52	08/20/26 10:20	1
Lindane	<0.0097		0.0097	ug/L		08/14/26 10:52	08/20/26 10:20	1
Malathion	<0.097		0.097	ug/L		08/14/26 10:52	08/20/26 10:20	1
Methoxychlor	<0.048		0.048	ug/L		08/14/26 10:52	08/20/26 10:20	1
Metolachlor	<0.048		0.048	ug/L		08/14/26 10:52	08/20/26 10:20	1
Molinate	<0.097		0.097	ug/L		08/14/26 10:52	08/20/26 10:20	1
Naphthalene	<0.097		0.097	ug/L		08/14/26 10:52	08/20/26 10:20	1
Parathion	<0.097		0.097	ug/L		08/14/26 10:52	08/20/26 10:20	1
Pendimethalin (Penoxaline)	<0.097		0.097	ug/L		08/14/26 10:52	08/20/26 10:20	1
Phenanthrene	<0.039		0.039	ug/L		08/14/26 10:52	08/20/26 10:20	1
Propachlor	<0.048		0.048	ug/L		08/14/26 10:52	08/20/26 10:20	1
Pyrene	<0.048		0.048	ug/L		08/14/26 10:52	08/20/26 10:20	1
Simazine	<0.048		0.048	ug/L		08/14/26 10:52	08/20/26 10:20	1
Terbacil	<0.097		0.097	ug/L		08/14/26 10:52	08/20/26 10:20	1
Terbutylazine	<0.097		0.097	ug/L		08/14/26 10:52	08/20/26 10:20	1
Thiobencarb	<0.097		0.097	ug/L		08/14/26 10:52	08/20/26 10:20	1
Total Permethrin (mixed isomers)	<0.19		0.19	ug/L		08/14/26 10:52	08/20/26 10:20	1
trans-Nonachlor	<0.048		0.048	ug/L		08/14/26 10:52	08/20/26 10:20	1
Trifluralin	<0.097		0.097	ug/L		08/14/26 10:52	08/20/26 10:20	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	08/14/26 10:52	08/20/26 10:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	95		70 - 130	08/14/26 10:52	08/20/26 10:20	1
Perylene-d12	98		70 - 130	08/14/26 10:52	08/20/26 10:20	1
Triphenylphosphate	110		70 - 130	08/14/26 10:52	08/20/26 10:20	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.20		0.20	ug/L		08/15/26 13:10	08/19/26 11:54	1
2-Methylnaphthalene	<0.20		0.20	ug/L		08/15/26 13:10	08/19/26 11:54	1
Acenaphthene	<0.20		0.20	ug/L		08/15/26 13:10	08/19/26 11:54	1
Acenaphthylene	<0.20		0.20	ug/L		08/15/26 13:10	08/19/26 11:54	1
Anthracene	<0.20		0.20	ug/L		08/15/26 13:10	08/19/26 11:54	1
Benzo[a]anthracene	<0.20		0.20	ug/L		08/15/26 13:10	08/19/26 11:54	1
Benzo[a]pyrene	<0.20		0.20	ug/L		08/15/26 13:10	08/19/26 11:54	1
Benzo[b]fluoranthene	<0.20		0.20	ug/L		08/15/26 13:10	08/19/26 11:54	1
Benzo[g,h,i]perylene	<0.20		0.20	ug/L		08/15/26 13:10	08/19/26 11:54	1
Benzo[k]fluoranthene	<0.20		0.20	ug/L		08/15/26 13:10	08/19/26 11:54	1
Chrysene	<0.20		0.20	ug/L		08/15/26 13:10	08/19/26 11:54	1
Dibenz(a,h)anthracene	<0.20		0.20	ug/L		08/15/26 13:10	08/19/26 11:54	1
Fluoranthene	<0.20		0.20	ug/L		08/15/26 13:10	08/19/26 11:54	1

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Client Sample Results

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

Job ID: 380-230428-1
SDG: Weekly: Halawa Wells P1 (MS/MSD)

Client Sample ID: HALAWA WELLS P1 (331-023-WL065)

Lab Sample ID: 380-230428-1

Date Collected: 08/10/26 10:32

Matrix: Drinking Water

Date Received: 08/12/26 09:50

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
Fluorene	<0.20		0.20	ug/L		08/15/26 13:10	08/19/26 11:54	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20	ug/L		08/15/26 13:10	08/19/26 11:54	1
Naphthalene	<0.20		0.20	ug/L		08/15/26 13:10	08/19/26 11:54	1
Phenanthrene	<0.20		0.20	ug/L		08/15/26 13:10	08/19/26 11:54	1
Pyrene	<0.20		0.20	ug/L		08/15/26 13:10	08/19/26 11:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	92		28 - 127	08/15/26 13:10	08/19/26 11:54	1
2-Fluorobiphenyl (Surr)	86		31 - 120	08/15/26 13:10	08/19/26 11:54	1
2-Fluorophenol (Surr)	53		17 - 120	08/15/26 13:10	08/19/26 11:54	1
Nitrobenzene-d5 (Surr)	89		27 - 120	08/15/26 13:10	08/19/26 11:54	1
Phenol-d6 (Surr)	33		10 - 120	08/15/26 13:10	08/19/26 11:54	1
p-Terphenyl-d14 (Surr)	78		45 - 120	08/15/26 13:10	08/19/26 11:54	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	08/15/26 13:10	08/19/26 14:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	76		33 - 139	08/15/26 13:10	08/19/26 14:56	1
2-Fluorobiphenyl (Surr)	95		33 - 126	08/15/26 13:10	08/19/26 14:56	1
2-Fluorophenol (Surr)	56		12 - 120	08/15/26 13:10	08/19/26 14:56	1
Nitrobenzene-d5 (Surr)	97		36 - 120	08/15/26 13:10	08/19/26 14:56	1
Phenol-d6 (Surr)	32		10 - 120	08/15/26 13:10	08/19/26 14:56	1
p-Terphenyl-d14 (Surr)	99		47 - 131	08/15/26 13:10	08/19/26 14:56	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			08/20/26 13:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		38 - 134		08/20/26 13:34	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		08/14/26 06:12	08/23/26 02:59	1
Motor Oil Range Organics [C24-C36]	<26		26	ug/L		08/14/26 06:12	08/23/26 02:59	1
C8-C18	<26		26	ug/L		08/14/26 06:12	08/23/26 02:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	103		60 - 130	08/14/26 06:12	08/23/26 02:59	1

Client Sample ID: TB: HALAWA WELLS P1 (331-023-WL065)

Lab Sample ID: 380-230428-2

Date Collected: 08/10/26 10:32

Matrix: Water

Date Received: 08/12/26 09:50

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			08/20/26 21:57	1

Eurofins Pomona

Client Sample Results

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

Job ID: 380-230428-1
SDG: Weekly: Halawa Wells P1 (MS/MSD)

Client Sample ID: TB: HALAWA WELLS P1 (331-023-WL065)
Date Collected: 08/10/26 10:32
Date Received: 08/12/26 09:50

Lab Sample ID: 380-230428-2
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		38 - 134		08/20/26 21:57	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

Action Limit Summary

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

Job ID: 380-230428-1
SDG: Weekly: Halawa Wells P1 (MS/MSD)

Client Sample ID: HALAWA WELLS P1 (331-023-WL065)

Lab Sample ID: 380-230428-1

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	<0.048		ug/L	2	0.048	525.2	Total/NA
Atrazine	<0.048		ug/L	3	0.048	525.2	Total/NA
Benzo[a]pyrene	<0.019		ug/L	0.2	0.019	525.2	Total/NA
Bis(2-ethylhexyl) phthalate	<0.58		ug/L	6	0.58	525.2	Total/NA
Di(2-ethylhexyl)adipate	<0.58		ug/L	400	0.58	525.2	Total/NA
Endrin	<0.0097		ug/L	2	0.0097	525.2	Total/NA
Heptachlor	<0.0097		ug/L	0.4	0.0097	525.2	Total/NA
Heptachlor epoxide (isomer B)	0.015		ug/L	0.2	0.0097	525.2	Total/NA
Hexachlorobenzene	<0.048		ug/L	1	0.048	525.2	Total/NA
Hexachlorocyclopentadiene	<0.048		ug/L	50	0.048	525.2	Total/NA
Lindane	<0.0097		ug/L	0.2	0.0097	525.2	Total/NA
Methoxychlor	<0.048		ug/L	40	0.048	525.2	Total/NA
Simazine	<0.048		ug/L	4	0.048	525.2	Total/NA
Benzo[a]pyrene	<0.20		ug/L	0.2	0.20	625.1 SIM	Total/NA

Surrogate Summary

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

Job ID: 380-230428-1
SDG: Weekly: Halawa Wells P1 (MS/MSD)

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)				
380-230428-1	HALAWA WELLS P1 (331-023-WL0	95	98	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)				
380-229564-D-1-B MS	Matrix Spike	101	97	116				
380-229564-D-1-C MSD	Matrix Spike Duplicate	101	97	121				
LCS 380-246523/23-A	Lab Control Sample	97	98	104				
MB 380-246523/21-A	Method Blank	95	92	106				
MRL 380-246523/22-A	Lab Control Sample	97	92	108				
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)		
380-230428-1	HALAWA WELLS P1 (331-023-WL0	76	95	56	97	32	99		
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 570-784853/1-A	Method Blank	77	91	57	100	33	90		
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: 380-230428-1

SDG: Weekly: Halawa Wells P1 (MS/MSD)

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)
380-230428-1	HALAWA WELLS P1 (331-023-WL0	92	86	53	89	33	78
380-230428-1 MS	HALAWA WELLS P1 (331-023-WL065)	110	101	74	70	48	101
380-230428-1 MSD	HALAWA WELLS P1 (331-023-WL065)	95	93	64	68	40	88

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)
LCS 570-784853/2-A	Lab Control Sample	89	89	71	68	46	95
LCSD 570-784853/3-A	Lab Control Sample Dup	86	84	66	66	44	94
MB 570-784853/1-A	Method Blank	88	79	55	90	33	74

Surrogate Legend

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

FBP = 2-Fluorobiphenyl (Surr)

2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

PHL6 = Phenol-d6 (Surr)

TPHD14 = p-Terphenyl-d14 (Surr)

Method: 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)					
380-230428-1	HALAWA WELLS P1 (331-023-WL0	104					
380-230428-1 MS	HALAWA WELLS P1 (331-023-WL065)	91					
380-230428-1 MSD	HALAWA WELLS P1 (331-023-WL065)	103					

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

Surrogate Summary

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

Job ID: 380-230428-1
SDG: Weekly: Halawa Wells P1 (MS/MSD)

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)					
380-230428-2	TB: HALAWA WELLS P1 (331-023-1	91					
LCS 570-787520/3	Lab Control Sample	98					
LCSD 570-787520/4	Lab Control Sample Dup	97					
MB 570-787520/5	Method Blank	85					
MRL 570-787520/6	Lab Control Sample	99					
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)					
380-230428-1	HALAWA WELLS P1 (331-023-WL0	103					
380-230428-1 MS	HALAWA WELLS P1 (331-023-WL065)	88					
380-230428-1 MSD	HALAWA WELLS P1 (331-023-WL065)	92					
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)					
LCS 570-783767/2-A	Lab Control Sample	101					
LCSD 570-783767/3-A	Lab Control Sample Dup	108					
MB 570-783767/1-A	Method Blank	104					
MRL 570-783767/4-A	Lab Control Sample	105					
Surrogate Legend							
OTCSN = n-Octacosane (Surr)							

QC Sample Results

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

Job ID: 380-230428-1
SDG: Weekly: Halawa Wells P1 (MS/MSD)

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

Lab Sample ID: MB 380-246523/21-A
Matrix: Water
Analysis Batch: 247665

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 246523

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.10		0.10	ug/L		08/14/26 10:52	08/20/26 08:58	1
2,4'-DDD	<0.10		0.10	ug/L		08/14/26 10:52	08/20/26 08:58	1
2,4'-DDE	<0.10		0.10	ug/L		08/14/26 10:52	08/20/26 08:58	1
2,4'-DDT	<0.10		0.10	ug/L		08/14/26 10:52	08/20/26 08:58	1
2,4-Dinitrotoluene	<0.10		0.10	ug/L		08/14/26 10:52	08/20/26 08:58	1
2,6-Dinitrotoluene	<0.10		0.10	ug/L		08/14/26 10:52	08/20/26 08:58	1
2-Methylnaphthalene	<0.10		0.10	ug/L		08/14/26 10:52	08/20/26 08:58	1
4,4'-DDD	<0.10		0.10	ug/L		08/14/26 10:52	08/20/26 08:58	1
4,4'-DDE	<0.10		0.10	ug/L		08/14/26 10:52	08/20/26 08:58	1
4,4'-DDT	<0.10		0.10	ug/L		08/14/26 10:52	08/20/26 08:58	1
Acenaphthene	<0.10		0.10	ug/L		08/14/26 10:52	08/20/26 08:58	1
Acenaphthylene	<0.10		0.10	ug/L		08/14/26 10:52	08/20/26 08:58	1
Acetochlor	<0.10		0.10	ug/L		08/14/26 10:52	08/20/26 08:58	1
Alachlor	<0.050		0.050	ug/L		08/14/26 10:52	08/20/26 08:58	1
alpha-BHC	<0.10		0.10	ug/L		08/14/26 10:52	08/20/26 08:58	1
alpha-Chlordane	<0.050		0.050	ug/L		08/14/26 10:52	08/20/26 08:58	1
Anthracene	<0.020		0.020	ug/L		08/14/26 10:52	08/20/26 08:58	1
Atrazine	<0.050		0.050	ug/L		08/14/26 10:52	08/20/26 08:58	1
Benz(a)anthracene	<0.050		0.050	ug/L		08/14/26 10:52	08/20/26 08:58	1
Benzo[a]pyrene	<0.020		0.020	ug/L		08/14/26 10:52	08/20/26 08:58	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		08/14/26 10:52	08/20/26 08:58	1
Benzo[g,h,i]perylene	<0.050		0.050	ug/L		08/14/26 10:52	08/20/26 08:58	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		08/14/26 10:52	08/20/26 08:58	1
beta-BHC	<0.10		0.10	ug/L		08/14/26 10:52	08/20/26 08:58	1
Bis(2-ethylhexyl) phthalate	<0.60		0.60	ug/L		08/14/26 10:52	08/20/26 08:58	1
Bromacil	<0.10		0.10	ug/L		08/14/26 10:52	08/20/26 08:58	1
Butachlor	<0.050		0.050	ug/L		08/14/26 10:52	08/20/26 08:58	1
Butylbenzylphthalate	<0.50		0.50	ug/L		08/14/26 10:52	08/20/26 08:58	1
Chlorobenzilate	<0.10		0.10	ug/L		08/14/26 10:52	08/20/26 08:58	1
Chloroneb	<0.10		0.10	ug/L		08/14/26 10:52	08/20/26 08:58	1
Chlorothalonil (Draconil, Bravo)	<0.10		0.10	ug/L		08/14/26 10:52	08/20/26 08:58	1
Chlorpyrifos	<0.050		0.050	ug/L		08/14/26 10:52	08/20/26 08:58	1
Chrysene	<0.020		0.020	ug/L		08/14/26 10:52	08/20/26 08:58	1
delta-BHC	<0.10		0.10	ug/L		08/14/26 10:52	08/20/26 08:58	1
Di(2-ethylhexyl)adipate	<0.60		0.60	ug/L		08/14/26 10:52	08/20/26 08:58	1
Dibenz(a,h)anthracene	<0.050		0.050	ug/L		08/14/26 10:52	08/20/26 08:58	1
Diclorvos (DDVP)	<0.050		0.050	ug/L		08/14/26 10:52	08/20/26 08:58	1
Dieldrin	<0.010		0.010	ug/L		08/14/26 10:52	08/20/26 08:58	1
Diethylphthalate	<0.50		0.50	ug/L		08/14/26 10:52	08/20/26 08:58	1
Dimethylphthalate	<0.50		0.50	ug/L		08/14/26 10:52	08/20/26 08:58	1
Di-n-butyl phthalate	<1.0		1.0	ug/L		08/14/26 10:52	08/20/26 08:58	1
Di-n-octyl phthalate	<0.10		0.10	ug/L		08/14/26 10:52	08/20/26 08:58	1
Endosulfan I (Alpha)	<0.10		0.10	ug/L		08/14/26 10:52	08/20/26 08:58	1
Endosulfan II (Beta)	<0.10		0.10	ug/L		08/14/26 10:52	08/20/26 08:58	1
Endosulfan sulfate	<0.10		0.10	ug/L		08/14/26 10:52	08/20/26 08:58	1
Endrin	<0.010		0.010	ug/L		08/14/26 10:52	08/20/26 08:58	1
Endrin aldehyde	<0.10		0.10	ug/L		08/14/26 10:52	08/20/26 08:58	1
EPTC	<0.10		0.10	ug/L		08/14/26 10:52	08/20/26 08:58	1

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QC Sample Results

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

Job ID: 380-230428-1
SDG: Weekly: Halawa Wells P1 (MS/MSD)

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

Lab Sample ID: MB 380-246523/21-A

Matrix: Water

Analysis Batch: 247665

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 246523

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.10		0.10	ug/L		08/14/26 10:52	08/20/26 08:58	1
Fluorene	<0.050		0.050	ug/L		08/14/26 10:52	08/20/26 08:58	1
gamma-Chlordane	<0.050		0.050	ug/L		08/14/26 10:52	08/20/26 08:58	1
Heptachlor	<0.010		0.010	ug/L		08/14/26 10:52	08/20/26 08:58	1
Heptachlor epoxide (isomer B)	<0.010		0.010	ug/L		08/14/26 10:52	08/20/26 08:58	1
Hexachlorobenzene	<0.050		0.050	ug/L		08/14/26 10:52	08/20/26 08:58	1
Hexachlorocyclopentadiene	<0.050		0.050	ug/L		08/14/26 10:52	08/20/26 08:58	1
Indeno[1,2,3-cd]pyrene	<0.050		0.050	ug/L		08/14/26 10:52	08/20/26 08:58	1
Isophorone	<0.10		0.10	ug/L		08/14/26 10:52	08/20/26 08:58	1
Lindane	<0.010		0.010	ug/L		08/14/26 10:52	08/20/26 08:58	1
Malathion	<0.10		0.10	ug/L		08/14/26 10:52	08/20/26 08:58	1
Methoxychlor	<0.050		0.050	ug/L		08/14/26 10:52	08/20/26 08:58	1
Metolachlor	<0.050		0.050	ug/L		08/14/26 10:52	08/20/26 08:58	1
Molinate	<0.10		0.10	ug/L		08/14/26 10:52	08/20/26 08:58	1
Naphthalene	<0.10		0.10	ug/L		08/14/26 10:52	08/20/26 08:58	1
Parathion	<0.10		0.10	ug/L		08/14/26 10:52	08/20/26 08:58	1
Pendimethalin (Penoxaline)	<0.10		0.10	ug/L		08/14/26 10:52	08/20/26 08:58	1
Phenanthrene	<0.040		0.040	ug/L		08/14/26 10:52	08/20/26 08:58	1
Propachlor	<0.050		0.050	ug/L		08/14/26 10:52	08/20/26 08:58	1
Pyrene	<0.050		0.050	ug/L		08/14/26 10:52	08/20/26 08:58	1
Simazine	<0.050		0.050	ug/L		08/14/26 10:52	08/20/26 08:58	1
Terbacil	<0.10		0.10	ug/L		08/14/26 10:52	08/20/26 08:58	1
Terbutylazine	<0.10		0.10	ug/L		08/14/26 10:52	08/20/26 08:58	1
Thiobencarb	<0.10		0.10	ug/L		08/14/26 10:52	08/20/26 08:58	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		08/14/26 10:52	08/20/26 08:58	1
trans-Nonachlor	<0.050		0.050	ug/L		08/14/26 10:52	08/20/26 08:58	1
Trifluralin	<0.10		0.10	ug/L		08/14/26 10:52	08/20/26 08:58	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Undecane	6.27	T J N	ug/L		3.19	1120-21-4	08/14/26 10:52	08/20/26 08:58	1
Cyclohexasiloxane, dodecamethyl-	0.652	T J N	ug/L		3.94	540-97-6	08/14/26 10:52	08/20/26 08:58	1
Hexadecanamide	0.532	T J N	ug/L		7.10	629-54-9	08/14/26 10:52	08/20/26 08:58	1
9-Octadecenamide, (Z)-	4.88	T J N	ug/L		7.98	301-02-0	08/14/26 10:52	08/20/26 08:58	1
Octadecanamide	0.657	T J N	ug/L		8.08	124-26-5	08/14/26 10:52	08/20/26 08:58	1
9-Octadecenamide, (Z)-	2.53	T J N	ug/L		10.51	301-02-0	08/14/26 10:52	08/20/26 08:58	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	95		70 - 130	08/14/26 10:52	08/20/26 08:58	1
Perylene-d12	92		70 - 130	08/14/26 10:52	08/20/26 08:58	1
Triphenylphosphate	106		70 - 130	08/14/26 10:52	08/20/26 08:58	1

Lab Sample ID: LCS 380-246523/23-A

Matrix: Water

Analysis Batch: 247665

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 246523

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	1.99	2.03		ug/L		102	70 - 130
2,4'-DDD	1.99	2.07		ug/L		104	70 - 130

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QC Sample Results

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

Job ID: 380-230428-1
SDG: Weekly: Halawa Wells P1 (MS/MSD)

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

Lab Sample ID: LCS 380-246523/23-A

Matrix: Water

Analysis Batch: 247665

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 246523

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4'-DDE	1.99	2.02		ug/L		102	70 - 130
2,4'-DDT	1.99	2.03		ug/L		102	70 - 130
2,4-Dinitrotoluene	1.99	2.10		ug/L		105	70 - 130
2,6-Dinitrotoluene	1.99	2.06		ug/L		103	70 - 130
2-Methylnaphthalene	1.99	2.03		ug/L		102	70 - 130
4,4'-DDD	1.99	2.04		ug/L		102	70 - 130
4,4'-DDE	1.99	2.01		ug/L		101	70 - 130
4,4'-DDT	1.99	2.10		ug/L		106	70 - 130
Acenaphthene	1.99	2.10		ug/L		106	70 - 130
Acenaphthylene	1.99	1.96		ug/L		98	70 - 130
Acetochlor	1.99	2.10		ug/L		105	70 - 130
Alachlor	1.99	2.11		ug/L		106	70 - 130
alpha-BHC	1.99	2.12		ug/L		107	70 - 130
alpha-Chlordane	1.99	2.06		ug/L		103	70 - 130
Anthracene	1.99	1.98		ug/L		99	70 - 130
Atrazine	1.99	2.15		ug/L		108	70 - 130
Benz(a)anthracene	1.99	2.07		ug/L		104	70 - 130
Benzo[a]pyrene	1.99	2.10		ug/L		106	70 - 130
Benzo[b]fluoranthene	1.99	2.21		ug/L		111	70 - 130
Benzo[g,h,i]perylene	1.99	2.12		ug/L		106	70 - 130
Benzo[k]fluoranthene	1.99	2.05		ug/L		103	70 - 130
beta-BHC	1.99	2.15		ug/L		108	70 - 130
Bis(2-ethylhexyl) phthalate	1.99	2.21		ug/L		111	70 - 130
Bromacil	1.99	1.98		ug/L		99	70 - 130
Butachlor	1.99	2.26		ug/L		114	70 - 130
Butylbenzylphthalate	1.99	2.22		ug/L		111	70 - 130
Chlorobenzilate	1.99	2.08		ug/L		104	70 - 130
Chloroneb	1.99	2.13		ug/L		107	70 - 130
Chlorothalonil (Draconil, Bravo)	1.99	2.04		ug/L		103	70 - 130
Chlorpyrifos	1.99	2.00		ug/L		100	70 - 130
Chrysene	1.99	2.07		ug/L		104	70 - 130
delta-BHC	1.99	2.05		ug/L		103	70 - 130
Di(2-ethylhexyl)adipate	1.99	2.28		ug/L		114	70 - 130
Dibenz(a,h)anthracene	1.99	2.10		ug/L		105	70 - 130
Diclorvos (DDVP)	1.99	1.97		ug/L		99	70 - 130
Dieldrin	1.99	2.06		ug/L		104	70 - 130
Diethylphthalate	1.99	2.19		ug/L		110	70 - 130
Dimethylphthalate	1.99	2.11		ug/L		106	70 - 130
Di-n-butyl phthalate	3.98	4.35		ug/L		109	70 - 130
Di-n-octyl phthalate	1.99	2.11		ug/L		106	70 - 130
Endosulfan I (Alpha)	1.99	2.07		ug/L		104	70 - 130
Endosulfan II (Beta)	1.99	2.12		ug/L		107	70 - 130
Endosulfan sulfate	1.99	2.10		ug/L		105	70 - 130
Endrin	1.99	2.08		ug/L		104	70 - 130
Endrin aldehyde	1.99	2.04		ug/L		102	60 - 130
EPTC	1.99	2.10		ug/L		106	70 - 130
Fluoranthene	1.99	2.08		ug/L		104	70 - 130
Fluorene	1.99	2.06		ug/L		104	70 - 130
gamma-Chlordane	1.99	2.02		ug/L		102	70 - 130

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QC Sample Results

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

Job ID: 380-230428-1
SDG: Weekly: Halawa Wells P1 (MS/MSD)

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

Lab Sample ID: LCS 380-246523/23-A

Matrix: Water

Analysis Batch: 247665

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 246523

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Heptachlor	1.99	2.02		ug/L		102	70 - 130
Heptachlor epoxide (isomer B)	1.99	2.02		ug/L		101	70 - 130
Hexachlorobenzene	1.99	1.94		ug/L		97	70 - 130
Hexachlorocyclopentadiene	1.99	1.88		ug/L		94	70 - 130
Indeno[1,2,3-cd]pyrene	1.99	2.17		ug/L		109	70 - 130
Isophorone	1.99	2.05		ug/L		103	70 - 130
Lindane	1.99	2.15		ug/L		108	70 - 130
Malathion	1.99	2.07		ug/L		104	70 - 130
Methoxychlor	1.99	2.17		ug/L		109	70 - 130
Metolachlor	1.99	2.15		ug/L		108	70 - 130
Molinate	1.99	2.12		ug/L		106	70 - 130
Naphthalene	1.99	2.01		ug/L		101	70 - 130
Parathion	1.99	2.10		ug/L		105	70 - 130
Pendimethalin (Penoxaline)	1.99	2.05		ug/L		103	70 - 130
Phenanthrene	1.99	1.98		ug/L		99	70 - 130
Propachlor	1.99	2.19		ug/L		110	70 - 130
Pyrene	1.99	2.06		ug/L		103	70 - 130
Simazine	1.99	2.09		ug/L		105	70 - 130
Terbacil	1.99	2.02		ug/L		102	70 - 130
Terbuthylazine	1.99	2.18		ug/L		110	70 - 130
Thiobencarb	1.99	2.11		ug/L		106	70 - 130
trans-Nonachlor	1.99	2.04		ug/L		102	70 - 130
Trifluralin	1.99	2.02		ug/L		101	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Nitro-m-xylene	97		70 - 130
Perylene-d12	98		70 - 130
Triphenylphosphate	104		70 - 130

Lab Sample ID: MRL 380-246523/22-A

Matrix: Water

Analysis Batch: 247665

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 246523

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	0.0993	0.0760	J	ug/L		77	50 - 150
2,4'-DDD	0.0993	0.0943	J	ug/L		95	50 - 150
2,4'-DDE	0.0993	0.101		ug/L		102	50 - 150
2,4'-DDT	0.0993	0.107		ug/L		108	50 - 150
2,4-Dinitrotoluene	0.0993	0.132		ug/L		133	50 - 150
2,6-Dinitrotoluene	0.0993	0.112		ug/L		113	50 - 150
2-Methylnaphthalene	0.0993	0.0789	J	ug/L		79	50 - 150
4,4'-DDD	0.0993	0.108		ug/L		109	50 - 150
4,4'-DDE	0.0993	0.102		ug/L		103	50 - 150
4,4'-DDT	0.0993	0.112		ug/L		113	50 - 150
Acenaphthene	0.0993	0.0838	J	ug/L		84	50 - 150
Acenaphthylene	0.0993	0.0750	J	ug/L		76	50 - 150
Acetochlor	0.0993	0.103		ug/L		103	50 - 150
Alachlor	0.0496	0.0634		ug/L		128	50 - 150

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QC Sample Results

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

Job ID: 380-230428-1
SDG: Weekly: Halawa Wells P1 (MS/MSD)

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

Lab Sample ID: MRL 380-246523/22-A

Matrix: Water

Analysis Batch: 247665

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 246523

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
alpha-BHC	0.0993	0.0977	J	ug/L		98	50 - 150
alpha-Chlordane	0.0248	<0.029		ug/L		108	50 - 150
Anthracene	0.0199	0.0273		ug/L		137	50 - 150
Atrazine	0.0496	0.0552		ug/L		111	50 - 150
Benz(a)anthracene	0.0496	0.0552		ug/L		111	50 - 150
Benzo[a]pyrene	0.0199	0.0230		ug/L		116	50 - 150
Benzo[b]fluoranthene	0.0199	0.0240		ug/L		121	50 - 150
Benzo[g,h,i]perylene	0.0496	0.0496	J	ug/L		100	50 - 150
Benzo[k]fluoranthene	0.0199	0.0234		ug/L		118	50 - 150
beta-BHC	0.0993	0.105		ug/L		106	50 - 150
Bis(2-ethylhexyl) phthalate	0.596	0.708		ug/L		119	50 - 150
Bromacil	0.0993	0.115		ug/L		116	50 - 150
Butachlor	0.0496	0.0608		ug/L		123	50 - 150
Butylbenzylphthalate	0.496	0.632		ug/L		127	50 - 150
Chlorobenzilate	0.0993	0.109		ug/L		110	50 - 150
Chloroneb	0.0993	0.103		ug/L		103	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0993	0.106		ug/L		107	50 - 150
Chlorpyrifos	0.0496	0.0564		ug/L		114	50 - 150
Chrysene	0.0199	0.0207		ug/L		104	50 - 150
delta-BHC	0.0993	0.107		ug/L		107	50 - 150
Di(2-ethylhexyl)adipate	0.596	0.752		ug/L		126	50 - 150
Dibenz(a,h)anthracene	0.0496	0.0555		ug/L		112	50 - 150
Diclorvos (DDVP)	0.0496	0.0578		ug/L		116	50 - 150
Dieldrin	0.00993	0.0102		ug/L		103	50 - 150
Diethylphthalate	0.496	0.575		ug/L		116	50 - 150
Dimethylphthalate	0.496	0.521		ug/L		105	50 - 150
Di-n-butyl phthalate	0.496	0.706	J	ug/L		142	49 - 243
Di-n-octyl phthalate	0.0993	0.110		ug/L		111	50 - 150
Endosulfan I (Alpha)	0.0993	0.106		ug/L		107	50 - 150
Endosulfan II (Beta)	0.0993	0.113		ug/L		114	50 - 150
Endosulfan sulfate	0.0993	0.113		ug/L		114	50 - 150
Endrin	0.00993	0.00879	J	ug/L		89	50 - 150
Endrin aldehyde	0.0993	0.113		ug/L		114	50 - 150
EPTC	0.0993	0.0877	J	ug/L		88	50 - 150
Fluoranthene	0.0993	0.100		ug/L		101	50 - 150
Fluorene	0.0496	<0.050		ug/L		91	50 - 150
gamma-Chlordane	0.0248	0.0263	J	ug/L		106	50 - 150
Heptachlor	0.00993	0.0113		ug/L		113	50 - 150
Heptachlor epoxide (isomer B)	0.00993	0.0102		ug/L		103	50 - 150
Hexachlorobenzene	0.0496	<0.041		ug/L		81	50 - 150
Hexachlorocyclopentadiene	0.0496	<0.038		ug/L		70	50 - 150
Indeno[1,2,3-cd]pyrene	0.0496	0.0498	J	ug/L		100	50 - 150
Isophorone	0.0993	0.0836	J	ug/L		84	50 - 150
Lindane	0.00993	0.00847	J	ug/L		85	50 - 150
Malathion	0.0993	0.103		ug/L		104	50 - 150
Methoxychlor	0.0496	0.0571		ug/L		115	50 - 150
Metolachlor	0.0496	0.0547		ug/L		110	50 - 150
Molinate	0.0993	0.106		ug/L		106	50 - 150
Naphthalene	0.0993	0.0813	J	ug/L		82	50 - 150

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QC Sample Results

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

Job ID: 380-230428-1
SDG: Weekly: Halawa Wells P1 (MS/MSD)

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

Lab Sample ID: MRL 380-246523/22-A

Matrix: Water

Analysis Batch: 247665

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 246523

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Parathion	0.0993	0.100		ug/L		101	50 - 150
Pendimethalin (Penoxaline)	0.0993	0.107		ug/L		107	50 - 150
Phenanthrene	0.0397	0.0394	J	ug/L		99	50 - 150
Propachlor	0.0496	0.0518		ug/L		104	50 - 150
Pyrene	0.0496	0.0511		ug/L		103	50 - 150
Simazine	0.0496	0.0532		ug/L		107	50 - 150
Terbacil	0.0993	0.113		ug/L		114	50 - 150
Terbutylazine	0.0993	0.108		ug/L		108	50 - 150
Thiobencarb	0.0993	0.109		ug/L		110	50 - 150
trans-Nonachlor	0.0248	0.0285	J	ug/L		115	50 - 150
Trifluralin	0.0993	0.0991		ug/L		100	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
2-Nitro-m-xylene	97		70 - 130
Perylene-d12	92		70 - 130
Triphenylphosphate	108		70 - 130

Lab Sample ID: 380-229564-D-1-B MS

Matrix: Water

Analysis Batch: 247665

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 246523

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.096		1.92	1.96		ug/L		102	70 - 130
2,4'-DDD	<0.096		1.92	1.82		ug/L		95	70 - 130
2,4'-DDE	<0.096		1.92	1.57		ug/L		82	70 - 130
2,4'-DDT	<0.096		1.92	1.59		ug/L		83	70 - 130
2,4-Dinitrotoluene	<0.096		1.92	2.40		ug/L		125	70 - 130
2,6-Dinitrotoluene	<0.096	F1	1.92	2.43		ug/L		127	70 - 130
2-Methylnaphthalene	<0.096		1.92	1.97		ug/L		103	70 - 130
4,4'-DDD	<0.096		1.92	1.81		ug/L		94	70 - 130
4,4'-DDE	<0.096		1.92	1.54		ug/L		80	70 - 130
4,4'-DDT	<0.096		1.92	1.61		ug/L		84	70 - 130
Acenaphthene	<0.096		1.92	2.04		ug/L		107	70 - 130
Acenaphthylene	<0.096		1.92	2.00		ug/L		104	70 - 130
Acetochlor	<0.096		1.92	2.32		ug/L		121	70 - 130
Alachlor	<0.048		1.92	2.29		ug/L		119	70 - 130
alpha-BHC	<0.096		1.92	2.13		ug/L		111	70 - 130
alpha-Chlordane	<0.048		1.92	1.81		ug/L		94	70 - 130
Anthracene	<0.019		1.92	2.04		ug/L		106	70 - 130
Atrazine	<0.048		1.92	2.05		ug/L		107	70 - 130
Benz(a)anthracene	<0.048		1.92	2.10		ug/L		110	70 - 130
Benzo[a]pyrene	<0.019		1.92	2.01		ug/L		105	70 - 130
Benzo[b]fluoranthene	<0.019		1.92	2.02		ug/L		106	70 - 130
Benzo[g,h,i]perylene	<0.048		1.92	1.69		ug/L		88	70 - 130
Benzo[k]fluoranthene	<0.019		1.92	1.79		ug/L		93	70 - 130
beta-BHC	<0.096		1.92	2.26		ug/L		118	70 - 130
Bis(2-ethylhexyl) phthalate	<0.57		1.92	1.71		ug/L		79	70 - 130
Bromacil	<0.096	F1	1.92	2.59	F1	ug/L		135	70 - 130

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QC Sample Results

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

Job ID: 380-230428-1
SDG: Weekly: Halawa Wells P1 (MS/MSD)

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

Lab Sample ID: 380-229564-D-1-B MS

Matrix: Water

Analysis Batch: 247665

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 246523

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Butachlor	<0.048	F1	1.92	2.47		ug/L		129	70 - 130
Butylbenzylphthalate	<0.48	F1	1.92	2.46		ug/L		128	70 - 130
Chlorobenzilate	<0.096		1.92	2.36		ug/L		123	70 - 130
Chloroneb	<0.096		1.92	2.04		ug/L		106	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.096		1.92	2.15		ug/L		112	70 - 130
Chlorpyrifos	<0.048		1.92	2.10		ug/L		110	70 - 130
Chrysene	<0.019		1.92	1.98		ug/L		103	70 - 130
delta-BHC	<0.096		1.92	2.32		ug/L		121	70 - 130
Di(2-ethylhexyl)adipate	<0.57		1.92	1.65		ug/L		86	70 - 130
Dibenz(a,h)anthracene	<0.048		1.92	1.72		ug/L		90	70 - 130
Diclorvos (DDVP)	<0.048		1.92	2.18		ug/L		114	70 - 130
Dieldrin	<0.0096		1.92	1.97		ug/L		103	70 - 130
Diethylphthalate	<0.48		1.92	2.30		ug/L		115	70 - 130
Dimethylphthalate	<0.48		1.92	2.21		ug/L		115	70 - 130
Di-n-butyl phthalate	<0.96	F1	3.84	NQ	E	ug/L			70 - 130
Di-n-octyl phthalate	<0.096		1.92	1.44		ug/L		75	70 - 130
Endosulfan I (Alpha)	<0.096		1.92	2.00		ug/L		104	70 - 130
Endosulfan II (Beta)	<0.096		1.92	2.16		ug/L		113	70 - 130
Endosulfan sulfate	<0.096		1.92	2.00		ug/L		104	70 - 130
Endrin	<0.0096		1.92	2.17		ug/L		113	70 - 130
Endrin aldehyde	<0.096	F1 F2	1.92	0.750	F1	ug/L		39	60 - 130
EPTC	<0.096		1.92	2.07		ug/L		108	70 - 130
Fluoranthene	<0.096		1.92	2.20		ug/L		115	70 - 130
Fluorene	<0.048		1.92	2.05		ug/L		107	70 - 130
gamma-Chlordane	<0.048		1.92	1.77		ug/L		92	70 - 130
Heptachlor	<0.0096		1.92	1.90		ug/L		99	70 - 130
Heptachlor epoxide (isomer B)	<0.0096		1.92	2.11		ug/L		110	70 - 130
Hexachlorobenzene	<0.048		1.92	1.85		ug/L		96	70 - 130
Hexachlorocyclopentadiene	<0.048		1.92	2.04		ug/L		107	70 - 130
Indeno[1,2,3-cd]pyrene	<0.048		1.92	1.83		ug/L		96	70 - 130
Isophorone	<0.096		1.92	2.07		ug/L		107	70 - 130
Lindane	<0.0096		1.92	1.82		ug/L		95	70 - 130
Malathion	<0.096		1.92	2.38		ug/L		124	70 - 130
Methoxychlor	<0.048		1.92	2.30		ug/L		120	70 - 130
Metolachlor	<0.048		1.92	2.21		ug/L		115	70 - 130
Molinate	<0.096		1.92	2.11		ug/L		110	70 - 130
Naphthalene	<0.096		1.92	1.94		ug/L		101	70 - 130
Parathion	<0.096	F1	1.92	2.60	F1	ug/L		135	70 - 130
Pendimethalin (Penoxaline)	<0.096		1.92	2.41		ug/L		125	70 - 130
Phenanthrene	<0.038		1.92	2.07		ug/L		108	70 - 130
Propachlor	<0.048		1.92	2.28		ug/L		119	70 - 130
Pyrene	<0.048		1.92	2.17		ug/L		113	70 - 130
Simazine	<0.048		1.92	2.15		ug/L		112	70 - 130
Terbacil	<0.096		1.92	2.45		ug/L		128	70 - 130
Terbuthylazine	<0.096		1.92	2.28		ug/L		119	70 - 130
Thiobencarb	<0.096		1.92	2.22		ug/L		116	70 - 130
trans-Nonachlor	<0.048		1.92	1.63		ug/L		85	70 - 130
Trifluralin	<0.096		1.92	2.17		ug/L		113	70 - 130

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QC Sample Results

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

Job ID: 380-230428-1
SDG: Weekly: Halawa Wells P1 (MS/MSD)

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

Lab Sample ID: 380-229564-D-1-B MS

Matrix: Water

Analysis Batch: 247665

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 246523

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Nitro-m-xylene	101		70 - 130
Perylene-d12	97		70 - 130
Triphenylphosphate	116		70 - 130

Lab Sample ID: 380-229564-D-1-C MSD

Matrix: Water

Analysis Batch: 247665

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 246523

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	<0.096		1.91	1.94		ug/L		102	70 - 130	1	20
2,4'-DDD	<0.096		1.91	1.83		ug/L		96	70 - 130	1	20
2,4'-DDE	<0.096		1.91	1.58		ug/L		83	70 - 130	1	20
2,4'-DDT	<0.096		1.91	1.59		ug/L		83	70 - 130	0	20
2,4-Dinitrotoluene	<0.096		1.91	2.47		ug/L		129	70 - 130	3	20
2,6-Dinitrotoluene	<0.096	F1	1.91	2.53	F1	ug/L		132	70 - 130	4	20
2-Methylnaphthalene	<0.096		1.91	1.94		ug/L		102	70 - 130	2	20
4,4'-DDD	<0.096		1.91	1.83		ug/L		96	70 - 130	1	20
4,4'-DDE	<0.096		1.91	1.56		ug/L		81	70 - 130	1	20
4,4'-DDT	<0.096		1.91	1.62		ug/L		85	70 - 130	1	20
Acenaphthene	<0.096		1.91	2.04		ug/L		107	70 - 130	0	20
Acenaphthylene	<0.096		1.91	2.00		ug/L		105	70 - 130	0	20
Acetochlor	<0.096		1.91	2.28		ug/L		119	70 - 130	2	20
Alachlor	<0.048		1.91	2.32		ug/L		121	70 - 130	1	20
alpha-BHC	<0.096		1.91	2.12		ug/L		111	70 - 130	1	20
alpha-Chlordane	<0.048		1.91	1.85		ug/L		97	70 - 130	2	20
Anthracene	<0.019		1.91	2.06		ug/L		108	70 - 130	1	20
Atrazine	<0.048		1.91	2.01		ug/L		105	70 - 130	2	20
Benz(a)anthracene	<0.048		1.91	2.16		ug/L		113	70 - 130	3	20
Benzo[a]pyrene	<0.019		1.91	2.01		ug/L		105	70 - 130	0	20
Benzo[b]fluoranthene	<0.019		1.91	2.00		ug/L		105	70 - 130	1	20
Benzo[g,h,i]perylene	<0.048		1.91	1.74		ug/L		91	70 - 130	3	20
Benzo[k]fluoranthene	<0.019		1.91	1.81		ug/L		95	70 - 130	1	20
beta-BHC	<0.096		1.91	2.17		ug/L		114	70 - 130	4	20
Bis(2-ethylhexyl) phthalate	<0.57		1.91	1.71		ug/L		79	70 - 130	0	20
Bromacil	<0.096	F1	1.91	2.63	F1	ug/L		138	70 - 130	2	20
Butachlor	<0.048	F1	1.91	2.51	F1	ug/L		131	70 - 130	2	20
Butylbenzylphthalate	<0.48	F1	1.91	2.54	F1	ug/L		133	70 - 130	3	20
Chlorobenzilate	<0.096		1.91	2.44		ug/L		128	70 - 130	3	20
Chloroneb	<0.096		1.91	2.00		ug/L		105	70 - 130	2	20
Chlorothalonil (Draconil, Bravo)	<0.096		1.91	2.15		ug/L		112	70 - 130	0	20
Chlorpyrifos	<0.048		1.91	2.17		ug/L		114	70 - 130	3	20
Chrysene	<0.019		1.91	2.02		ug/L		105	70 - 130	2	20
delta-BHC	<0.096		1.91	2.32		ug/L		121	70 - 130	0	20
Di(2-ethylhexyl)adipate	<0.57		1.91	1.67		ug/L		87	70 - 130	1	20
Dibenz(a,h)anthracene	<0.048		1.91	1.73		ug/L		90	70 - 130	0	20
Diclorvos (DDVP)	<0.048		1.91	2.18		ug/L		114	70 - 130	0	20
Dieldrin	<0.0096		1.91	2.00		ug/L		105	70 - 130	1	20
Diethylphthalate	<0.48		1.91	2.28		ug/L		114	70 - 130	1	20

Eurofins Pomona

QC Sample Results

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

Job ID: 380-230428-1
SDG: Weekly: Halawa Wells P1 (MS/MSD)

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

Lab Sample ID: 380-229564-D-1-C MSD

Matrix: Water

Analysis Batch: 247665

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 246523

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Dimethylphthalate	<0.48		1.91	2.18		ug/L		114	70 - 130	1	20
Di-n-butyl phthalate	<0.96	F1	3.82	NQ	E F1	ug/L		0	70 - 130	NC	20
Di-n-octyl phthalate	<0.096		1.91	1.44		ug/L		75	70 - 130	0	20
Endosulfan I (Alpha)	<0.096		1.91	2.00		ug/L		104	70 - 130	0	20
Endosulfan II (Beta)	<0.096		1.91	2.16		ug/L		113	70 - 130	0	20
Endosulfan sulfate	<0.096		1.91	2.04		ug/L		107	70 - 130	2	20
Endrin	<0.0096		1.91	2.16		ug/L		113	70 - 130	1	20
Endrin aldehyde	<0.096	F1 F2	1.91	0.534	F1 F2	ug/L		28	60 - 130	34	20
EPTC	<0.096		1.91	2.12		ug/L		111	70 - 130	2	20
Fluoranthene	<0.096		1.91	2.21		ug/L		116	70 - 130	1	20
Fluorene	<0.048		1.91	2.04		ug/L		107	70 - 130	0	20
gamma-Chlordane	<0.048		1.91	1.79		ug/L		94	70 - 130	1	20
Heptachlor	<0.0096		1.91	1.95		ug/L		102	70 - 130	2	20
Heptachlor epoxide (isomer B)	<0.0096		1.91	2.20		ug/L		115	70 - 130	4	20
Hexachlorobenzene	<0.048		1.91	1.82		ug/L		95	70 - 130	2	20
Hexachlorocyclopentadiene	<0.048		1.91	1.96		ug/L		102	70 - 130	4	20
Indeno[1,2,3-cd]pyrene	<0.048		1.91	1.88		ug/L		98	70 - 130	2	20
Isophorone	<0.096		1.91	2.10		ug/L		109	70 - 130	1	20
Lindane	<0.0096		1.91	1.83		ug/L		96	70 - 130	0	20
Malathion	<0.096		1.91	2.39		ug/L		125	70 - 130	1	20
Methoxychlor	<0.048		1.91	2.31		ug/L		121	70 - 130	0	20
Metolachlor	<0.048		1.91	2.30		ug/L		120	70 - 130	4	20
Molinate	<0.096		1.91	2.12		ug/L		111	70 - 130	0	20
Naphthalene	<0.096		1.91	1.93		ug/L		101	70 - 130	1	20
Parathion	<0.096	F1	1.91	2.67	F1	ug/L		140	70 - 130	3	20
Pendimethalin (Penoxaline)	<0.096		1.91	2.48		ug/L		130	70 - 130	3	20
Phenanthrene	<0.038		1.91	2.08		ug/L		109	70 - 130	1	20
Propachlor	<0.048		1.91	2.27		ug/L		119	70 - 130	0	20
Pyrene	<0.048		1.91	2.19		ug/L		114	70 - 130	1	20
Simazine	<0.048		1.91	2.08		ug/L		109	70 - 130	3	20
Terbacil	<0.096		1.91	2.39		ug/L		125	70 - 130	3	20
Terbutylazine	<0.096		1.91	2.18		ug/L		114	70 - 130	5	20
Thiobencarb	<0.096		1.91	2.22		ug/L		116	70 - 130	0	20
trans-Nonachlor	<0.048		1.91	1.69		ug/L		88	70 - 130	4	20
Trifluralin	<0.096		1.91	2.22		ug/L		116	70 - 130	2	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
2-Nitro-m-xylene	101		70 - 130								
Perylene-d12	97		70 - 130								
Triphenylphosphate	121		70 - 130								

QC Sample Results

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

Job ID: 380-230428-1
SDG: Weekly: Halawa Wells P1 (MS/MSD)

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

Lab Sample ID: MB 570-784853/1-A
Matrix: Water
Analysis Batch: 786745

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 784853

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	08/15/26 08:02	08/19/26 08:29	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	77		33 - 139				08/15/26 08:02	08/19/26 08:29	1
2-Fluorobiphenyl (Surr)	91		33 - 126				08/15/26 08:02	08/19/26 08:29	1
2-Fluorophenol (Surr)	57		12 - 120				08/15/26 08:02	08/19/26 08:29	1
Nitrobenzene-d5 (Surr)	100		36 - 120				08/15/26 08:02	08/19/26 08:29	1
Phenol-d6 (Surr)	33		10 - 120				08/15/26 08:02	08/19/26 08:29	1
p-Terphenyl-d14 (Surr)	90		47 - 131				08/15/26 08:02	08/19/26 08:29	1

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

Lab Sample ID: MB 570-784853/1-A
Matrix: Water
Analysis Batch: 786738

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 784853

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.20		0.20	ug/L		08/15/26 08:02	08/19/26 07:27	1
2-Methylnaphthalene	<0.20		0.20	ug/L		08/15/26 08:02	08/19/26 07:27	1
Acenaphthene	<0.20		0.20	ug/L		08/15/26 08:02	08/19/26 07:27	1
Acenaphthylene	<0.20		0.20	ug/L		08/15/26 08:02	08/19/26 07:27	1
Anthracene	<0.20		0.20	ug/L		08/15/26 08:02	08/19/26 07:27	1
Benzo[a]anthracene	<0.20		0.20	ug/L		08/15/26 08:02	08/19/26 07:27	1
Benzo[a]pyrene	<0.20		0.20	ug/L		08/15/26 08:02	08/19/26 07:27	1
Benzo[b]fluoranthene	<0.20		0.20	ug/L		08/15/26 08:02	08/19/26 07:27	1
Benzo[g,h,i]perylene	<0.20		0.20	ug/L		08/15/26 08:02	08/19/26 07:27	1
Benzo[k]fluoranthene	<0.20		0.20	ug/L		08/15/26 08:02	08/19/26 07:27	1
Chrysene	<0.20		0.20	ug/L		08/15/26 08:02	08/19/26 07:27	1
Dibenz(a,h)anthracene	<0.20		0.20	ug/L		08/15/26 08:02	08/19/26 07:27	1
Fluoranthene	<0.20		0.20	ug/L		08/15/26 08:02	08/19/26 07:27	1
Fluorene	<0.20		0.20	ug/L		08/15/26 08:02	08/19/26 07:27	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20	ug/L		08/15/26 08:02	08/19/26 07:27	1
Naphthalene	<0.20		0.20	ug/L		08/15/26 08:02	08/19/26 07:27	1
Phenanthrene	<0.20		0.20	ug/L		08/15/26 08:02	08/19/26 07:27	1
Pyrene	<0.20		0.20	ug/L		08/15/26 08:02	08/19/26 07:27	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	88		28 - 127			08/15/26 08:02	08/19/26 07:27	1
2-Fluorobiphenyl (Surr)	79		31 - 120			08/15/26 08:02	08/19/26 07:27	1
2-Fluorophenol (Surr)	55		17 - 120			08/15/26 08:02	08/19/26 07:27	1
Nitrobenzene-d5 (Surr)	90		27 - 120			08/15/26 08:02	08/19/26 07:27	1
Phenol-d6 (Surr)	33		10 - 120			08/15/26 08:02	08/19/26 07:27	1
p-Terphenyl-d14 (Surr)	74		45 - 120			08/15/26 08:02	08/19/26 07:27	1

QC Sample Results

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

Job ID: 380-230428-1
SDG: Weekly: Halawa Wells P1 (MS/MSD)

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

Lab Sample ID: LCS 570-784853/2-A

Matrix: Water

Analysis Batch: 786738

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 784853

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	20.0	12.4		ug/L		62	47 - 120
2-Methylnaphthalene	20.0	12.2		ug/L		61	43 - 120
Acenaphthene	20.0	17.2		ug/L		86	60 - 132
Acenaphthylene	20.0	17.5		ug/L		87	54 - 126
Anthracene	20.0	17.3		ug/L		86	43 - 120
Benzo[a]anthracene	20.0	19.4		ug/L		97	42 - 133
Benzo[a]pyrene	20.0	22.5		ug/L		113	32 - 148
Benzo[b]fluoranthene	20.0	20.0		ug/L		100	42 - 140
Benzo[g,h,i]perylene	20.0	19.2		ug/L		96	1 - 195
Benzo[k]fluoranthene	20.0	19.3		ug/L		97	25 - 146
Chrysene	20.0	18.1		ug/L		90	44 - 140
Dibenz(a,h)anthracene	20.0	19.7		ug/L		99	1 - 200
Fluoranthene	20.0	18.1		ug/L		90	43 - 121
Fluorene	20.0	17.5		ug/L		87	70 - 120
Indeno[1,2,3-cd]pyrene	20.0	18.6		ug/L		93	1 - 151
Naphthalene	20.0	11.6		ug/L		58	36 - 120
Phenanthrene	20.0	17.4		ug/L		87	65 - 120
Pyrene	20.0	19.9		ug/L		100	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	89		28 - 127
2-Fluorobiphenyl (Surr)	89		31 - 120
2-Fluorophenol (Surr)	71		17 - 120
Nitrobenzene-d5 (Surr)	68		27 - 120
Phenol-d6 (Surr)	46		10 - 120
p-Terphenyl-d14 (Surr)	95		45 - 120

Lab Sample ID: LCSD 570-784853/3-A

Matrix: Water

Analysis Batch: 786738

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 784853

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	20.0	12.1		ug/L		60	47 - 120	3	20
2-Methylnaphthalene	20.0	12.0		ug/L		60	43 - 120	1	20
Acenaphthene	20.0	16.8		ug/L		84	60 - 132	3	29
Acenaphthylene	20.0	16.8		ug/L		84	54 - 126	4	45
Anthracene	20.0	16.7		ug/L		84	43 - 120	3	40
Benzo[a]anthracene	20.0	19.2		ug/L		96	42 - 133	1	32
Benzo[a]pyrene	20.0	22.5		ug/L		113	32 - 148	0	43
Benzo[b]fluoranthene	20.0	20.2		ug/L		101	42 - 140	1	43
Benzo[g,h,i]perylene	20.0	19.1		ug/L		95	1 - 195	1	61
Benzo[k]fluoranthene	20.0	19.2		ug/L		96	25 - 146	1	38
Chrysene	20.0	17.9		ug/L		89	44 - 140	1	53
Dibenz(a,h)anthracene	20.0	19.9		ug/L		100	1 - 200	1	75
Fluoranthene	20.0	18.0		ug/L		90	43 - 121	1	40
Fluorene	20.0	17.2		ug/L		86	70 - 120	1	23
Indeno[1,2,3-cd]pyrene	20.0	18.5		ug/L		93	1 - 151	1	60
Naphthalene	20.0	11.4		ug/L		57	36 - 120	2	39

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QC Sample Results

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

Job ID: 380-230428-1
SDG: Weekly: Halawa Wells P1 (MS/MSD)

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

Lab Sample ID: LCSD 570-784853/3-A

Matrix: Water

Analysis Batch: 786738

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 784853

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenanthrene	20.0	17.2		ug/L		86	65 - 120	2	24
Pyrene	20.0	19.6		ug/L		98	70 - 120	2	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	86		28 - 127
2-Fluorobiphenyl (Surr)	84		31 - 120
2-Fluorophenol (Surr)	66		17 - 120
Nitrobenzene-d5 (Surr)	66		27 - 120
Phenol-d6 (Surr)	44		10 - 120
p-Terphenyl-d14 (Surr)	94		45 - 120

Lab Sample ID: 380-230428-1 MS

Matrix: Drinking Water

Analysis Batch: 788948

Client Sample ID: HALAWA WELLS P1 (331-023-WL065)

Prep Type: Total/NA

Prep Batch: 784853

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.20		19.6	14.6		ug/L		75	36 - 120
2-Methylnaphthalene	<0.20		19.6	14.4		ug/L		73	32 - 124
Acenaphthene	<0.20		19.6	19.6		ug/L		100	47 - 145
Acenaphthylene	<0.20		19.6	19.8		ug/L		101	33 - 145
Anthracene	<0.20		19.6	20.2		ug/L		103	27 - 133
Benzo[a]anthracene	<0.20		19.6	22.4		ug/L		114	33 - 143
Benzo[a]pyrene	<0.20		19.6	24.5		ug/L		125	17 - 163
Benzo[b]fluoranthene	<0.20		19.6	24.3		ug/L		124	24 - 159
Benzo[g,h,i]perylene	<0.20		19.6	22.6		ug/L		115	1 - 219
Benzo[k]fluoranthene	<0.20		19.6	22.5		ug/L		115	11 - 162
Chrysene	<0.20		19.6	22.2		ug/L		113	17 - 168
Dibenz(a,h)anthracene	<0.20		19.6	24.1		ug/L		123	1 - 227
Fluoranthene	<0.20		19.6	22.8		ug/L		116	26 - 137
Fluorene	<0.20		19.6	19.7		ug/L		100	59 - 121
Indeno[1,2,3-cd]pyrene	<0.20		19.6	23.7		ug/L		121	1 - 171
Naphthalene	<0.20		19.6	13.7		ug/L		70	21 - 133
Phenanthrene	<0.20		19.6	20.7		ug/L		106	54 - 120
Pyrene	<0.20		19.6	21.9		ug/L		112	52 - 120

Surrogate	MS %Recovery	MS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	110		28 - 127
2-Fluorobiphenyl (Surr)	101		31 - 120
2-Fluorophenol (Surr)	74		17 - 120
Nitrobenzene-d5 (Surr)	70		27 - 120
Phenol-d6 (Surr)	48		10 - 120
p-Terphenyl-d14 (Surr)	101		45 - 120

QC Sample Results

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

Job ID: 380-230428-1
SDG: Weekly: Halawa Wells P1 (MS/MSD)

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

Lab Sample ID: 380-230428-1 MSD

Matrix: Drinking Water

Analysis Batch: 788948

Client Sample ID: HALAWA WELLS P1 (331-023-WL065)

Prep Type: Total/NA

Prep Batch: 784853

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	<0.20		19.6	13.1		ug/L		67	36 - 120	11	30
2-Methylnaphthalene	<0.20		19.6	12.8		ug/L		66	32 - 124	11	30
Acenaphthene	<0.20		19.6	17.9		ug/L		91	47 - 145	9	48
Acenaphthylene	<0.20		19.6	18.1		ug/L		92	33 - 145	9	74
Anthracene	<0.20		19.6	18.2		ug/L		93	27 - 133	10	66
Benzo[a]anthracene	<0.20		19.6	20.2		ug/L		103	33 - 143	10	53
Benzo[a]pyrene	<0.20		19.6	22.6		ug/L		116	17 - 163	8	72
Benzo[b]fluoranthene	<0.20		19.6	21.9		ug/L		112	24 - 159	10	71
Benzo[g,h,i]perylene	<0.20		19.6	20.5		ug/L		105	1 - 219	10	97
Benzo[k]fluoranthene	<0.20		19.6	20.8		ug/L		106	11 - 162	8	63
Chrysene	<0.20		19.6	20.2		ug/L		103	17 - 168	9	87
Dibenz(a,h)anthracene	<0.20		19.6	21.7		ug/L		111	1 - 227	11	126
Fluoranthene	<0.20		19.6	21.6		ug/L		111	26 - 137	5	66
Fluorene	<0.20		19.6	18.0		ug/L		92	59 - 121	9	38
Indeno[1,2,3-cd]pyrene	<0.20		19.6	21.4		ug/L		110	1 - 171	10	99
Naphthalene	<0.20		19.6	12.5		ug/L		64	21 - 133	9	65
Phenanthrene	<0.20		19.6	18.6		ug/L		95	54 - 120	10	39
Pyrene	<0.20		19.6	19.2		ug/L		98	52 - 120	13	49

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	95		28 - 127
2-Fluorobiphenyl (Surr)	93		31 - 120
2-Fluorophenol (Surr)	64		17 - 120
Nitrobenzene-d5 (Surr)	68		27 - 120
Phenol-d6 (Surr)	40		10 - 120
p-Terphenyl-d14 (Surr)	88		45 - 120

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

Lab Sample ID: MB 570-787520/5

Matrix: Water

Analysis Batch: 787520

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			08/20/26 10:52	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		38 - 134		08/20/26 10:52	1

Lab Sample ID: LCS 570-787520/3

Matrix: Water

Analysis Batch: 787520

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	329		ug/L		82	78 - 120

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QC Sample Results

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

Job ID: 380-230428-1
SDG: Weekly: Halawa Wells P1 (MS/MSD)

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

Lab Sample ID: LCS 570-787520/3

Matrix: Water

Analysis Batch: 787520

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		38 - 134

Lab Sample ID: LCSD 570-787520/4

Matrix: Water

Analysis Batch: 787520

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

			Spike	LCSD	LCSD				%Rec		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (C4-C13)			400	326		ug/L		82	78 - 120	1	10

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

Lab Sample ID: MRL 570-787520/6

Matrix: Water

Analysis Batch: 787520

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

			Spike	MRL	MRL				%Rec		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (C4-C13)			10.0	11.8		ug/L		118	50 - 150		

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

Lab Sample ID: 380-230428-1 MS

Matrix: Drinking Water

Analysis Batch: 787520

Client Sample ID: HALAWA WELLS P1 (331-023-WL065)

Prep Type: Total/NA

	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (C4-C13)	<10		400	371		ug/L		93	68 - 122		

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

Lab Sample ID: 380-230428-1 MSD

Matrix: Drinking Water

Analysis Batch: 787520

Client Sample ID: HALAWA WELLS P1 (331-023-WL065)

Prep Type: Total/NA

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (C4-C13)	<10		400	374		ug/L		93	68 - 122	1	18

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		38 - 134

QC Sample Results

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

Job ID: 380-230428-1
SDG: Weekly: Halawa Wells P1 (MS/MSD)

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

Lab Sample ID: MB 570-783767/1-A

Matrix: Water

Analysis Batch: 788809

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 783767

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<25		25	ug/L		08/13/26 10:21	08/23/26 01:11	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		08/13/26 10:21	08/23/26 01:11	1
C8-C18	<25		25	ug/L		08/13/26 10:21	08/23/26 01:11	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	104		60 - 130			08/13/26 10:21	08/23/26 01:11	1

Lab Sample ID: LCS 570-783767/2-A

Matrix: Water

Analysis Batch: 788809

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 783767

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
C10-C28	1600	1550		ug/L		97	56 - 127	
Surrogate	LCS %Recovery	LCS Qualifier	Limits					
n-Octacosane (Surr)	101		60 - 130					

Lab Sample ID: LCSD 570-783767/3-A

Matrix: Water

Analysis Batch: 788809

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 783767

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28	1600	1570		ug/L		98	56 - 127	1	23
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
n-Octacosane (Surr)	108		60 - 130						

Lab Sample ID: MRL 570-783767/4-A

Matrix: Water

Analysis Batch: 788809

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 783767

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits	
C10-C28	0.0200	0.0286		mg/L		143	50 - 150	
Surrogate	MRL %Recovery	MRL Qualifier	Limits					
n-Octacosane (Surr)	105		60 - 130					

Lab Sample ID: 380-230428-1 MS

Matrix: Drinking Water

Analysis Batch: 788809

Client Sample ID: HALAWA WELLS P1 (331-023-WL065)

Prep Type: Total/NA

Prep Batch: 783767

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
C10-C28	<26		1650	1320		ug/L		80	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
n-Octacosane (Surr)	88		60 - 130						

Eurofins Pomona

QC Sample Results

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

Job ID: 380-230428-1
SDG: Weekly: Halawa Wells P1 (MS/MSD)

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

Lab Sample ID: 380-230428-1 MSD

Matrix: Drinking Water

Analysis Batch: 788809

Client Sample ID: HALAWA WELLS P1 (331-023-WL065)

Prep Type: Total/NA

Prep Batch: 783767

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28	<26		1660	1530		ug/L		92	70 - 130	15	20
Surrogate	%Recovery	MSD Qualifier	Limits								
n-Octacosane (Surr)	92		60 - 130								

QC Association Summary

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

Job ID: 380-230428-1
SDG: Weekly: Halawa Wells P1 (MS/MSD)

GC/MS Semi VOA

Prep Batch: 246523

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-230428-1	HALAWA WELLS P1 (331-023-WL065)	Total/NA	Drinking Water	525.2	
MB 380-246523/21-A	Method Blank	Total/NA	Water	525.2	
LCS 380-246523/23-A	Lab Control Sample	Total/NA	Water	525.2	
MRL 380-246523/22-A	Lab Control Sample	Total/NA	Water	525.2	
380-229564-D-1-B MS	Matrix Spike	Total/NA	Water	525.2	
380-229564-D-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	525.2	

Analysis Batch: 247665

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-230428-1	HALAWA WELLS P1 (331-023-WL065)	Total/NA	Drinking Water	525.2	246523
MB 380-246523/21-A	Method Blank	Total/NA	Water	525.2	246523
LCS 380-246523/23-A	Lab Control Sample	Total/NA	Water	525.2	246523
MRL 380-246523/22-A	Lab Control Sample	Total/NA	Water	525.2	246523
380-229564-D-1-B MS	Matrix Spike	Total/NA	Water	525.2	246523
380-229564-D-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	525.2	246523

Prep Batch: 784853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-230428-1	HALAWA WELLS P1 (331-023-WL065)	Total/NA	Drinking Water	625.1	
MB 570-784853/1-A	Method Blank	Total/NA	Water	625.1	
LCS 570-784853/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 570-784853/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	
380-230428-1 MS	HALAWA WELLS P1 (331-023-WL065)	Total/NA	Drinking Water	625.1	
380-230428-1 MSD	HALAWA WELLS P1 (331-023-WL065)	Total/NA	Drinking Water	625.1	

Analysis Batch: 786738

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-230428-1	HALAWA WELLS P1 (331-023-WL065)	Total/NA	Drinking Water	625.1 SIM	784853
MB 570-784853/1-A	Method Blank	Total/NA	Water	625.1 SIM	784853
LCS 570-784853/2-A	Lab Control Sample	Total/NA	Water	625.1 SIM	784853
LCSD 570-784853/3-A	Lab Control Sample Dup	Total/NA	Water	625.1 SIM	784853

Analysis Batch: 786745

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-230428-1	HALAWA WELLS P1 (331-023-WL065)	Total/NA	Drinking Water	625.1	784853
MB 570-784853/1-A	Method Blank	Total/NA	Water	625.1	784853

Analysis Batch: 788948

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-230428-1 MS	HALAWA WELLS P1 (331-023-WL065)	Total/NA	Drinking Water	625.1 SIM	784853
380-230428-1 MSD	HALAWA WELLS P1 (331-023-WL065)	Total/NA	Drinking Water	625.1 SIM	784853

GC VOA

Analysis Batch: 787520

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-230428-1	HALAWA WELLS P1 (331-023-WL065)	Total/NA	Drinking Water	8015B GRO LL	
380-230428-2	TB: HALAWA WELLS P1 (331-023-WL065)	Total/NA	Water	8015B GRO LL	
MB 570-787520/5	Method Blank	Total/NA	Water	8015B GRO LL	
LCS 570-787520/3	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-787520/4	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	

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QC Association Summary

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

Job ID: 380-230428-1
SDG: Weekly: Halawa Wells P1 (MS/MSD)

GC VOA (Continued)

Analysis Batch: 787520 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MRL 570-787520/6	Lab Control Sample	Total/NA	Water	8015B GRO LL	
380-230428-1 MS	HALAWA WELLS P1 (331-023-WL065)	Total/NA	Drinking Water	8015B GRO LL	
380-230428-1 MSD	HALAWA WELLS P1 (331-023-WL065)	Total/NA	Drinking Water	8015B GRO LL	

GC Semi VOA

Prep Batch: 783767

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-230428-1	HALAWA WELLS P1 (331-023-WL065)	Total/NA	Drinking Water	3510C	
MB 570-783767/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-783767/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-783767/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-783767/4-A	Lab Control Sample	Total/NA	Water	3510C	
380-230428-1 MS	HALAWA WELLS P1 (331-023-WL065)	Total/NA	Drinking Water	3510C	
380-230428-1 MSD	HALAWA WELLS P1 (331-023-WL065)	Total/NA	Drinking Water	3510C	

Analysis Batch: 788809

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-230428-1	HALAWA WELLS P1 (331-023-WL065)	Total/NA	Drinking Water	8015B	783767
MB 570-783767/1-A	Method Blank	Total/NA	Water	8015B	783767
LCS 570-783767/2-A	Lab Control Sample	Total/NA	Water	8015B	783767
LCSD 570-783767/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	783767
MRL 570-783767/4-A	Lab Control Sample	Total/NA	Water	8015B	783767
380-230428-1 MS	HALAWA WELLS P1 (331-023-WL065)	Total/NA	Drinking Water	8015B	783767
380-230428-1 MSD	HALAWA WELLS P1 (331-023-WL065)	Total/NA	Drinking Water	8015B	783767

Lab Chronicle

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

Job ID: 380-230428-1
SDG: Weekly: Halawa Wells P1 (MS/MSD)

Client Sample ID: HALAWA WELLS P1 (331-023-WL065)

Lab Sample ID: 380-230428-1

Date Collected: 08/10/26 10:32

Matrix: Drinking Water

Date Received: 08/12/26 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			246523	L9UA	EA POM	08/14/26 10:52
Total/NA	Analysis	525.2		1	247665	Q8LA	EA POM	08/20/26 10:20
Total/NA	Prep	625.1			784853	KLZQ	EET CAL 4	08/15/26 13:10
Total/NA	Analysis	625.1		1	786745	PQS1	EET CAL 4	08/19/26 14:56
Total/NA	Prep	625.1			784853	KLZQ	EET CAL 4	08/15/26 13:10
Total/NA	Analysis	625.1 SIM		1	786738	PQS1	EET CAL 4	08/19/26 11:54
Total/NA	Analysis	8015B GRO LL		1	787520	W4LC	EET CAL 4	08/20/26 13:34
Total/NA	Prep	3510C			783767	EP2G	EET CAL 4	08/14/26 06:12
Total/NA	Analysis	8015B		1	788809	H6FE	EET CAL 4	08/23/26 02:59

Client Sample ID: TB: HALAWA WELLS P1 (331-023-WL065)

Lab Sample ID: 380-230428-2

Date Collected: 08/10/26 10:32

Matrix: Water

Date Received: 08/12/26 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	787520	W4LC	EET CAL 4	08/20/26 21:57

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: 380-230428-1
SDG: Weekly: Halawa Wells P1 (MS/MSD)

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: 380-230428-1
SDG: Weekly: Halawa Wells P1 (MS/MSD)

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: 380-230428-1
SDG: Weekly: Halawa Wells P1 (MS/MSD)

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: 380-230428-1
SDG: Weekly: Halawa Wells P1 (MS/MSD)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	PWSID Number
380-230428-1	HALAWA WELLS P1 (331-023-WL065)	Drinking Water	08/10/26 10:32	08/12/26 09:50	HI0000331
380-230428-2	TB: HALAWA WELLS P1 (331-023-WL065)	Water	08/10/26 10:32	08/12/26 09:50	

- 1
- 2
- 3
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- 14
- 15
- 16

[illegible]

ORIGIN ID HIK
BWS CHEMLAB
HONOLULU BOARD OF WATER SUPPLY
630 S BERETANIA ST
CHEMICAL LABORATORY
HONOLULU HI 96843
UNITED STATES US

SHIP DATE: 11AUG26
ACTWGT 57.00 LB
CAD 258050552/INET4535
BILL RECIPIENT

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

POMONA CA 91768

(626) 385-1100 REF

PO: DEPT



WED - 12 AUG 10:30A

PRIORITY OVERNIGHT

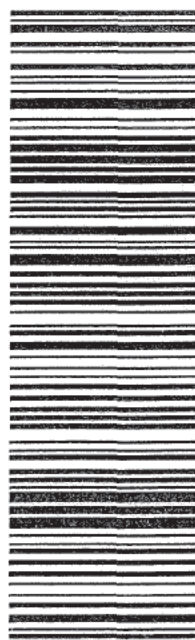
MPS# 8756 4353 0988

Mstr# 8756 4353 0966

WM ONTA

91768

CA-US ONT



(631A) 2-240.2-30 96(-JN) 26A
Marty Perkovets
8/12/26 950

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

[illegible]

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-230428-1

SDG Number: Weekly: Halawa Wells P1 (MS/MSD)

Login Number: 230428

List Number: 1

Creator: Ngo, Theodore

List Source: Eurofins Pomona

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

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-230428-1

SDG Number: Weekly: Halawa Wells P1 (MS/MSD)

Login Number: 230428

List Source: Eurofins Calscience

List Number: 2

List Creation: 08/13/26 03:50 PM

Creator: Khana, Piyush

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	fgf5
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	