

ANALYTICAL REPORT

PREPARED FOR

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JOB DESCRIPTION

RED-HILL
Weekly: Halawa Well P1
RUSH Weekly Red Hill

JOB NUMBER

380-192677-1

Eurofins Pomona

Job Notes

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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: 380-192677-1
SDG: Weekly: Halawa Well P1

Qualifiers

GC/MS Semi VOA

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

GC/MS Semi VOA TICs

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

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.

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: 380-192677-1

Job ID: 380-192677-1

Eurofins Pomona

Job Narrative 380-192677-1

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 1/15/2026 9:38 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 3.8°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: Surrogate recovery was outside acceptance limits for the following matrix spike/matrix spike duplicate (MS/MSD) sample: (380-192922-A-1-B MSD). The parent sample's surrogate recovery was within limits. The MS/MSD sample has been qualified and reported.

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: 380-192677-1
SDG: Weekly: Halawa Well P1

Client Sample ID: HALAWA WELL P1

Lab Sample ID: 380-192677-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Dieldrin	0.036		0.0097	ug/L	1		525.2	Total/NA
Heptachlor epoxide (isomer B)	0.011		0.0097	ug/L	1		525.2	Total/NA

Client Sample ID: TB: HALAWA WELL P1

Lab Sample ID: 380-192677-2

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: 380-192677-1
SDG: Weekly: Halawa Well P1

Client Sample ID: HALAWA WELL P1

Lab Sample ID: 380-192677-1

Date Collected: 01/13/26 11:50

Matrix: Water

Date Received: 01/15/26 09:38

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		01/19/26 14:33	01/20/26 16:39	1
2,4'-DDD	<0.097		0.097	ug/L		01/19/26 14:33	01/20/26 16:39	1
2,4'-DDE	<0.097		0.097	ug/L		01/19/26 14:33	01/20/26 16:39	1
2,4'-DDT	<0.097		0.097	ug/L		01/19/26 14:33	01/20/26 16:39	1
2,4-Dinitrotoluene	<0.097		0.097	ug/L		01/19/26 14:33	01/20/26 16:39	1
2,6-Dinitrotoluene	<0.097		0.097	ug/L		01/19/26 14:33	01/20/26 16:39	1
2-Methylnaphthalene	<0.097		0.097	ug/L		01/19/26 14:33	01/20/26 16:39	1
4,4'-DDD	<0.097		0.097	ug/L		01/19/26 14:33	01/20/26 16:39	1
4,4'-DDE	<0.097		0.097	ug/L		01/19/26 14:33	01/20/26 16:39	1
4,4'-DDT	<0.097		0.097	ug/L		01/19/26 14:33	01/20/26 16:39	1
Acenaphthene	<0.097		0.097	ug/L		01/19/26 14:33	01/20/26 16:39	1
Acenaphthylene	<0.097		0.097	ug/L		01/19/26 14:33	01/20/26 16:39	1
Acetochlor	<0.097		0.097	ug/L		01/19/26 14:33	01/20/26 16:39	1
Alachlor	<0.049		0.049	ug/L		01/19/26 14:33	01/20/26 16:39	1
alpha-BHC	<0.097		0.097	ug/L		01/19/26 14:33	01/20/26 16:39	1
alpha-Chlordane	<0.049		0.049	ug/L		01/19/26 14:33	01/20/26 16:39	1
Anthracene	<0.019		0.019	ug/L		01/19/26 14:33	01/20/26 16:39	1
Atrazine	<0.049		0.049	ug/L		01/19/26 14:33	01/20/26 16:39	1
Benz(a)anthracene	<0.049		0.049	ug/L		01/19/26 14:33	01/20/26 16:39	1
Benzo[a]pyrene	<0.019		0.019	ug/L		01/19/26 14:33	01/20/26 16:39	1
Benzo[b]fluoranthene	<0.019		0.019	ug/L		01/19/26 14:33	01/20/26 16:39	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		01/19/26 14:33	01/20/26 16:39	1
Benzo[k]fluoranthene	<0.019		0.019	ug/L		01/19/26 14:33	01/20/26 16:39	1
beta-BHC	<0.097		0.097	ug/L		01/19/26 14:33	01/20/26 16:39	1
Bis(2-ethylhexyl) phthalate	<0.58		0.58	ug/L		01/19/26 14:33	01/20/26 16:39	1
Bromacil	<0.097		0.097	ug/L		01/19/26 14:33	01/20/26 16:39	1
Butachlor	<0.049		0.049	ug/L		01/19/26 14:33	01/20/26 16:39	1
Butylbenzylphthalate	<0.49		0.49	ug/L		01/19/26 14:33	01/20/26 16:39	1
Chlorobenzilate	<0.097		0.097	ug/L		01/19/26 14:33	01/20/26 16:39	1
Chloroneb	<0.097		0.097	ug/L		01/19/26 14:33	01/20/26 16:39	1
Chlorothalonil (Draconil, Bravo)	<0.097		0.097	ug/L		01/19/26 14:33	01/20/26 16:39	1
Chlorpyrifos	<0.049		0.049	ug/L		01/19/26 14:33	01/20/26 16:39	1
Chrysene	<0.019		0.019	ug/L		01/19/26 14:33	01/20/26 16:39	1
delta-BHC	<0.097		0.097	ug/L		01/19/26 14:33	01/20/26 16:39	1
Di(2-ethylhexyl)adipate	<0.58		0.58	ug/L		01/19/26 14:33	01/20/26 16:39	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		01/19/26 14:33	01/20/26 16:39	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		01/19/26 14:33	01/20/26 16:39	1
Dieldrin	0.036		0.0097	ug/L		01/19/26 14:33	01/20/26 16:39	1
Diethylphthalate	<0.49		0.49	ug/L		01/19/26 14:33	01/20/26 16:39	1
Dimethylphthalate	<0.49		0.49	ug/L		01/19/26 14:33	01/20/26 16:39	1
Di-n-butyl phthalate	<0.97		0.97	ug/L		01/19/26 14:33	01/20/26 16:39	1
Di-n-octyl phthalate	<0.097		0.097	ug/L		01/19/26 14:33	01/20/26 16:39	1
Endosulfan I (Alpha)	<0.097		0.097	ug/L		01/19/26 14:33	01/20/26 16:39	1
Endosulfan II (Beta)	<0.097		0.097	ug/L		01/19/26 14:33	01/20/26 16:39	1
Endosulfan sulfate	<0.097		0.097	ug/L		01/19/26 14:33	01/20/26 16:39	1
Endrin	<0.0097		0.0097	ug/L		01/19/26 14:33	01/20/26 16:39	1
Endrin aldehyde	<0.097		0.097	ug/L		01/19/26 14:33	01/20/26 16:39	1
EPTC	<0.097		0.097	ug/L		01/19/26 14:33	01/20/26 16:39	1
Fluoranthene	<0.097		0.097	ug/L		01/19/26 14:33	01/20/26 16:39	1

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Client Sample Results

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

Job ID: 380-192677-1
SDG: Weekly: Halawa Well P1

Client Sample ID: HALAWA WELL P1

Lab Sample ID: 380-192677-1

Date Collected: 01/13/26 11:50

Matrix: Water

Date Received: 01/15/26 09:38

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	<0.049		0.049	ug/L		01/19/26 14:33	01/20/26 16:39	1
gamma-Chlordane	<0.049		0.049	ug/L		01/19/26 14:33	01/20/26 16:39	1
Heptachlor	<0.0097		0.0097	ug/L		01/19/26 14:33	01/20/26 16:39	1
Heptachlor epoxide (isomer B)	0.011		0.0097	ug/L		01/19/26 14:33	01/20/26 16:39	1
Hexachlorobenzene	<0.049		0.049	ug/L		01/19/26 14:33	01/20/26 16:39	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		01/19/26 14:33	01/20/26 16:39	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		01/19/26 14:33	01/20/26 16:39	1
Isophorone	<0.097		0.097	ug/L		01/19/26 14:33	01/20/26 16:39	1
Lindane	<0.0097		0.0097	ug/L		01/19/26 14:33	01/20/26 16:39	1
Malathion	<0.097		0.097	ug/L		01/19/26 14:33	01/20/26 16:39	1
Methoxychlor	<0.049		0.049	ug/L		01/19/26 14:33	01/20/26 16:39	1
Metolachlor	<0.049		0.049	ug/L		01/19/26 14:33	01/20/26 16:39	1
Molinate	<0.097		0.097	ug/L		01/19/26 14:33	01/20/26 16:39	1
Naphthalene	<0.097		0.097	ug/L		01/19/26 14:33	01/20/26 16:39	1
Parathion	<0.097		0.097	ug/L		01/19/26 14:33	01/20/26 16:39	1
Pendimethalin (Penoxaline)	<0.097		0.097	ug/L		01/19/26 14:33	01/20/26 16:39	1
Phenanthrene	<0.039		0.039	ug/L		01/19/26 14:33	01/20/26 16:39	1
Propachlor	<0.049		0.049	ug/L		01/19/26 14:33	01/20/26 16:39	1
Pyrene	<0.049		0.049	ug/L		01/19/26 14:33	01/20/26 16:39	1
Simazine	<0.049		0.049	ug/L		01/19/26 14:33	01/20/26 16:39	1
Terbacil	<0.097		0.097	ug/L		01/19/26 14:33	01/20/26 16:39	1
Terbutylazine	<0.097		0.097	ug/L		01/19/26 14:33	01/20/26 16:39	1
Thiobencarb	<0.097		0.097	ug/L		01/19/26 14:33	01/20/26 16:39	1
Total Permethrin (mixed isomers)	<0.19		0.19	ug/L		01/19/26 14:33	01/20/26 16:39	1
trans-Nonachlor	<0.049		0.049	ug/L		01/19/26 14:33	01/20/26 16:39	1
Trifluralin	<0.097		0.097	ug/L		01/19/26 14:33	01/20/26 16:39	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	01/19/26 14:33	01/20/26 16:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	101		70 - 130	01/19/26 14:33	01/20/26 16:39	1
Perylene-d12	96		70 - 130	01/19/26 14:33	01/20/26 16:39	1
Triphenylphosphate	97		70 - 130	01/19/26 14:33	01/20/26 16:39	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		01/20/26 06:00	01/28/26 14:29	1
2-Methylnaphthalene	<0.19		0.19	ug/L		01/20/26 06:00	01/28/26 14:29	1
Acenaphthene	<0.19		0.19	ug/L		01/20/26 06:00	01/28/26 14:29	1
Acenaphthylene	<0.19		0.19	ug/L		01/20/26 06:00	01/28/26 14:29	1
Anthracene	<0.19		0.19	ug/L		01/20/26 06:00	01/28/26 14:29	1
Benzo[a]anthracene	<0.19		0.19	ug/L		01/20/26 06:00	01/28/26 14:29	1
Benzo[a]pyrene	<0.19		0.19	ug/L		01/20/26 06:00	01/28/26 14:29	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		01/20/26 06:00	01/28/26 14:29	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		01/20/26 06:00	01/28/26 14:29	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		01/20/26 06:00	01/28/26 14:29	1
Chrysene	<0.19		0.19	ug/L		01/20/26 06:00	01/28/26 14:29	1
Dibenz(a,h)anthracene	<0.19		0.19	ug/L		01/20/26 06:00	01/28/26 14:29	1
Fluoranthene	<0.19		0.19	ug/L		01/20/26 06:00	01/28/26 14:29	1

Eurofins Pomona

Client Sample Results

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

Job ID: 380-192677-1
SDG: Weekly: Halawa Well P1

Client Sample ID: HALAWA WELL P1

Lab Sample ID: 380-192677-1

Date Collected: 01/13/26 11:50

Matrix: Water

Date Received: 01/15/26 09:38

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	<0.19		0.19	ug/L		01/20/26 06:00	01/28/26 14:29	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		01/20/26 06:00	01/28/26 14:29	1
Naphthalene	<0.19		0.19	ug/L		01/20/26 06:00	01/28/26 14:29	1
Phenanthrene	<0.19		0.19	ug/L		01/20/26 06:00	01/28/26 14:29	1
Pyrene	<0.19		0.19	ug/L		01/20/26 06:00	01/28/26 14:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	87		28 - 127	01/20/26 06:00	01/28/26 14:29	1
2-Fluorobiphenyl (Surr)	79		31 - 120	01/20/26 06:00	01/28/26 14:29	1
2-Fluorophenol (Surr)	48		17 - 120	01/20/26 06:00	01/28/26 14:29	1
Nitrobenzene-d5 (Surr)	80		27 - 120	01/20/26 06:00	01/28/26 14:29	1
Phenol-d6 (Surr)	30		10 - 120	01/20/26 06:00	01/28/26 14:29	1
p-Terphenyl-d14 (Surr)	73		45 - 120	01/20/26 06:00	01/28/26 14:29	1

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

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Cyclic octaatomic sulfur	5.2	T J N	ug/L		9.88	10544-50-0	01/20/26 06:00	01/29/26 20:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	63		33 - 139	01/20/26 06:00	01/29/26 20:11	1
2-Fluorobiphenyl (Surr)	89		33 - 126	01/20/26 06:00	01/29/26 20:11	1
2-Fluorophenol (Surr)	56		12 - 120	01/20/26 06:00	01/29/26 20:11	1
Nitrobenzene-d5 (Surr)	99		36 - 120	01/20/26 06:00	01/29/26 20:11	1
Phenol-d6 (Surr)	34		10 - 120	01/20/26 06:00	01/29/26 20:11	1
p-Terphenyl-d14 (Surr)	89		47 - 131	01/20/26 06:00	01/29/26 20:11	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			01/17/26 14:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		38 - 134		01/17/26 14:52	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<26		26	ug/L		01/19/26 10:30	01/25/26 16:29	1
Motor Oil Range Organics [C24-C36]	<26		26	ug/L		01/19/26 10:30	01/25/26 16:29	1
C8-C18	<26		26	ug/L		01/19/26 10:30	01/25/26 16:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	126		60 - 130	01/19/26 10:30	01/25/26 16:29	1

Client Sample ID: TB: HALAWA WELL P1

Lab Sample ID: 380-192677-2

Date Collected: 01/13/26 11:50

Matrix: Water

Date Received: 01/15/26 09:38

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			01/17/26 17:58	1

Eurofins Pomona

Client Sample Results

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

Job ID: 380-192677-1
SDG: Weekly: Halawa Well P1

Client Sample ID: TB: HALAWA WELL P1

Lab Sample ID: 380-192677-2

Date Collected: 01/13/26 11:50

Matrix: Water

Date Received: 01/15/26 09:38

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		38 - 134		01/17/26 17:58	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: 380-192677-1
SDG: Weekly: Halawa Well P1

Client Sample ID: HALAWA WELL P1

Lab Sample ID: 380-192677-1

Compliance Check

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

Analyte	Result	Qualifier	Unit	EPAMCL	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	<0.019		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)	0.011		ug/L	0.2	0.0097	525.2	Total/NA
Hexachlorobenzene	<0.049		ug/L	1	0.049	525.2	Total/NA
Hexachlorocyclopentadiene	<0.049		ug/L	50	0.049	525.2	Total/NA
Lindane	<0.0097		ug/L	0.2	0.0097	525.2	Total/NA
Methoxychlor	<0.049		ug/L	40	0.049	525.2	Total/NA
Simazine	<0.049		ug/L	4	0.049	525.2	Total/NA
Benzo[a]pyrene	<0.19		ug/L	0.2	0.19	625.1 SIM	Total/NA

Surrogate Summary

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

Job ID: 380-192677-1
SDG: Weekly: Halawa Well P1

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)
380-192677-1	HALAWA WELL P1	101	96	97
380-192710-U-1-A MS	Matrix Spike	101	98	101
380-192710-V-1-A MSD	Matrix Spike Duplicate	101	97	103
LCS 380-199062/23-A	Lab Control Sample	98	99	100
MB 380-199062/21-A	Method Blank	100	93	97
MRL 380-199062/22-A	Lab Control Sample	101	94	97

Surrogate Legend

2NMX = 2-Nitro-m-xylene

PRY = Perylene-d12

TPP = Triphenylphosphate

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)
380-192677-1	HALAWA WELL P1	63	89	56	99	34	89
MB 570-684318/1-A	Method Blank	67	87	61	101	37	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)
380-192677-1	HALAWA WELL P1	87	79	48	80	30	73
380-192972-A-1-A MS	Matrix Spike	80	75	51	74	34	76
380-192972-A-1-B MSD	Matrix Spike Duplicate	86	80	54	80	36	82
LCS 570-684318/2-A	Lab Control Sample	91	85	59	87	40	92
LCSD 570-684318/3-A	Lab Control Sample Dup	93	89	63	90	43	92
MB 570-684318/1-A	Method Blank	102	87	57	89	37	84

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)

Surrogate Summary

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

Job ID: 380-192677-1
SDG: Weekly: Halawa Well P1

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)
380-192677-1	HALAWA WELL P1	97
380-192677-2	TB: HALAWA WELL P1	98
380-192922-C-1 MS	Matrix Spike	92
380-192922-C-1 MSD	Matrix Spike Duplicate	96
LCS 570-683659/3	Lab Control Sample	87
LCSD 570-683659/4	Lab Control Sample Dup	98
MB 570-683659/5	Method Blank	93
MRL 570-683659/6	Lab Control Sample	87

Surrogate Legend

BFB = 4-Bromofluorobenzene (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)
380-192677-1 - RA	HALAWA WELL P1	126
380-192922-A-1-A MS	Matrix Spike	120
380-192922-A-1-B MSD	Matrix Spike Duplicate	133 S1+
LCS 570-684016/2-A	Lab Control Sample	124
LCSD 570-684016/3-A	Lab Control Sample Dup	130
MB 570-684016/1-A	Method Blank	123
MRL 570-684016/4-A	Lab Control Sample	120

Surrogate Legend

OTCSN = n-Octacosane (Surr)

QC Sample Results

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

Job ID: 380-192677-1
SDG: Weekly: Halawa Well P1

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

Lab Sample ID: MB 380-199062/21-A

Matrix: Water

Analysis Batch: 199342

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 199062

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.098		0.098	ug/L		01/19/26 14:33	01/20/26 13:47	1
2,4'-DDD	<0.098		0.098	ug/L		01/19/26 14:33	01/20/26 13:47	1
2,4'-DDE	<0.098		0.098	ug/L		01/19/26 14:33	01/20/26 13:47	1
2,4'-DDT	<0.098		0.098	ug/L		01/19/26 14:33	01/20/26 13:47	1
2,4-Dinitrotoluene	<0.098		0.098	ug/L		01/19/26 14:33	01/20/26 13:47	1
2,6-Dinitrotoluene	<0.098		0.098	ug/L		01/19/26 14:33	01/20/26 13:47	1
2-Methylnaphthalene	<0.098		0.098	ug/L		01/19/26 14:33	01/20/26 13:47	1
4,4'-DDD	<0.098		0.098	ug/L		01/19/26 14:33	01/20/26 13:47	1
4,4'-DDE	<0.098		0.098	ug/L		01/19/26 14:33	01/20/26 13:47	1
4,4'-DDT	<0.098		0.098	ug/L		01/19/26 14:33	01/20/26 13:47	1
Acenaphthene	<0.098		0.098	ug/L		01/19/26 14:33	01/20/26 13:47	1
Acenaphthylene	<0.098		0.098	ug/L		01/19/26 14:33	01/20/26 13:47	1
Acetochlor	<0.098		0.098	ug/L		01/19/26 14:33	01/20/26 13:47	1
Alachlor	<0.049		0.049	ug/L		01/19/26 14:33	01/20/26 13:47	1
alpha-BHC	<0.098		0.098	ug/L		01/19/26 14:33	01/20/26 13:47	1
alpha-Chlordane	<0.049		0.049	ug/L		01/19/26 14:33	01/20/26 13:47	1
Anthracene	<0.020		0.020	ug/L		01/19/26 14:33	01/20/26 13:47	1
Atrazine	<0.049		0.049	ug/L		01/19/26 14:33	01/20/26 13:47	1
Benz(a)anthracene	<0.049		0.049	ug/L		01/19/26 14:33	01/20/26 13:47	1
Benzo[a]pyrene	<0.020		0.020	ug/L		01/19/26 14:33	01/20/26 13:47	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		01/19/26 14:33	01/20/26 13:47	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		01/19/26 14:33	01/20/26 13:47	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		01/19/26 14:33	01/20/26 13:47	1
beta-BHC	<0.098		0.098	ug/L		01/19/26 14:33	01/20/26 13:47	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		01/19/26 14:33	01/20/26 13:47	1
Bromacil	<0.098		0.098	ug/L		01/19/26 14:33	01/20/26 13:47	1
Butachlor	<0.049		0.049	ug/L		01/19/26 14:33	01/20/26 13:47	1
Butylbenzylphthalate	<0.49		0.49	ug/L		01/19/26 14:33	01/20/26 13:47	1
Chlorobenzilate	<0.098		0.098	ug/L		01/19/26 14:33	01/20/26 13:47	1
Chloroneb	<0.098		0.098	ug/L		01/19/26 14:33	01/20/26 13:47	1
Chlorothalonil (Draconil, Bravo)	<0.098		0.098	ug/L		01/19/26 14:33	01/20/26 13:47	1
Chlorpyrifos	<0.049		0.049	ug/L		01/19/26 14:33	01/20/26 13:47	1
Chrysene	<0.020		0.020	ug/L		01/19/26 14:33	01/20/26 13:47	1
delta-BHC	<0.098		0.098	ug/L		01/19/26 14:33	01/20/26 13:47	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		01/19/26 14:33	01/20/26 13:47	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		01/19/26 14:33	01/20/26 13:47	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		01/19/26 14:33	01/20/26 13:47	1
Dieldrin	<0.0098		0.0098	ug/L		01/19/26 14:33	01/20/26 13:47	1
Diethylphthalate	<0.49		0.49	ug/L		01/19/26 14:33	01/20/26 13:47	1
Dimethylphthalate	<0.49		0.49	ug/L		01/19/26 14:33	01/20/26 13:47	1
Di-n-butyl phthalate	<0.98		0.98	ug/L		01/19/26 14:33	01/20/26 13:47	1
Di-n-octyl phthalate	<0.098		0.098	ug/L		01/19/26 14:33	01/20/26 13:47	1
Endosulfan I (Alpha)	<0.098		0.098	ug/L		01/19/26 14:33	01/20/26 13:47	1
Endosulfan II (Beta)	<0.098		0.098	ug/L		01/19/26 14:33	01/20/26 13:47	1
Endosulfan sulfate	<0.098		0.098	ug/L		01/19/26 14:33	01/20/26 13:47	1
Endrin	<0.0098		0.0098	ug/L		01/19/26 14:33	01/20/26 13:47	1
Endrin aldehyde	<0.098		0.098	ug/L		01/19/26 14:33	01/20/26 13:47	1
EPTC	<0.098		0.098	ug/L		01/19/26 14:33	01/20/26 13:47	1

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QC Sample Results

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

Job ID: 380-192677-1
SDG: Weekly: Halawa Well P1

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

Lab Sample ID: MB 380-199062/21-A

Matrix: Water

Analysis Batch: 199342

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 199062

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.098		0.098	ug/L		01/19/26 14:33	01/20/26 13:47	1
Fluorene	<0.049		0.049	ug/L		01/19/26 14:33	01/20/26 13:47	1
gamma-Chlordane	<0.049		0.049	ug/L		01/19/26 14:33	01/20/26 13:47	1
Heptachlor	<0.0098		0.0098	ug/L		01/19/26 14:33	01/20/26 13:47	1
Heptachlor epoxide (isomer B)	<0.0098		0.0098	ug/L		01/19/26 14:33	01/20/26 13:47	1
Hexachlorobenzene	<0.049		0.049	ug/L		01/19/26 14:33	01/20/26 13:47	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		01/19/26 14:33	01/20/26 13:47	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		01/19/26 14:33	01/20/26 13:47	1
Isophorone	<0.098		0.098	ug/L		01/19/26 14:33	01/20/26 13:47	1
Lindane	<0.0098		0.0098	ug/L		01/19/26 14:33	01/20/26 13:47	1
Malathion	<0.098		0.098	ug/L		01/19/26 14:33	01/20/26 13:47	1
Methoxychlor	<0.049		0.049	ug/L		01/19/26 14:33	01/20/26 13:47	1
Metolachlor	<0.049		0.049	ug/L		01/19/26 14:33	01/20/26 13:47	1
Molinate	<0.098		0.098	ug/L		01/19/26 14:33	01/20/26 13:47	1
Naphthalene	<0.098		0.098	ug/L		01/19/26 14:33	01/20/26 13:47	1
Parathion	<0.098		0.098	ug/L		01/19/26 14:33	01/20/26 13:47	1
Pendimethalin (Penoxaline)	<0.098		0.098	ug/L		01/19/26 14:33	01/20/26 13:47	1
Phenanthrene	<0.039		0.039	ug/L		01/19/26 14:33	01/20/26 13:47	1
Propachlor	<0.049		0.049	ug/L		01/19/26 14:33	01/20/26 13:47	1
Pyrene	<0.049		0.049	ug/L		01/19/26 14:33	01/20/26 13:47	1
Simazine	<0.049		0.049	ug/L		01/19/26 14:33	01/20/26 13:47	1
Terbacil	<0.098		0.098	ug/L		01/19/26 14:33	01/20/26 13:47	1
Terbutylazine	<0.098		0.098	ug/L		01/19/26 14:33	01/20/26 13:47	1
Thiobencarb	<0.098		0.098	ug/L		01/19/26 14:33	01/20/26 13:47	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		01/19/26 14:33	01/20/26 13:47	1
trans-Nonachlor	<0.049		0.049	ug/L		01/19/26 14:33	01/20/26 13:47	1
Trifluralin	<0.098		0.098	ug/L		01/19/26 14:33	01/20/26 13:47	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Cyclopentene, 1,2,3,4,5-pentamethyl-	0.881	T J N	ug/L		2.64	1000154-28-6	01/19/26 14:33	01/20/26 13:47	1
Heptadecane, 7-methyl-	0.730	T J N	ug/L		3.10	20959-33-5	01/19/26 14:33	01/20/26 13:47	1
Undecane	3.02	T J N	ug/L		3.23	1120-21-4	01/19/26 14:33	01/20/26 13:47	1
Unknown	0.718	T J	ug/L		3.99	N/A	01/19/26 14:33	01/20/26 13:47	1
9-Octadecenamide, (Z)-	1.11	T J N	ug/L		8.09	301-02-0	01/19/26 14:33	01/20/26 13:47	1
13-Docosenamide, (Z)-	0.732	T J N	ug/L		10.69	112-84-5	01/19/26 14:33	01/20/26 13:47	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	100		70 - 130	01/19/26 14:33	01/20/26 13:47	1
Perylene-d12	93		70 - 130	01/19/26 14:33	01/20/26 13:47	1
Triphenylphosphate	97		70 - 130	01/19/26 14:33	01/20/26 13:47	1

Lab Sample ID: LCS 380-199062/23-A

Matrix: Water

Analysis Batch: 199342

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 199062

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	1.97	1.98		ug/L		101	70 - 130

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QC Sample Results

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

Job ID: 380-192677-1
SDG: Weekly: Halawa Well P1

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

Lab Sample ID: LCS 380-199062/23-A

Matrix: Water

Analysis Batch: 199342

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 199062

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4'-DDD	1.97	2.04		ug/L		104	70 - 130
2,4'-DDE	1.97	2.01		ug/L		102	70 - 130
2,4'-DDT	1.97	2.12		ug/L		108	70 - 130
2,4-Dinitrotoluene	1.97	1.83		ug/L		93	70 - 130
2,6-Dinitrotoluene	1.97	1.74		ug/L		88	70 - 130
2-Methylnaphthalene	1.97	2.01		ug/L		102	70 - 130
4,4'-DDD	1.97	2.15		ug/L		109	70 - 130
4,4'-DDE	1.97	1.84		ug/L		94	70 - 130
4,4'-DDT	1.97	2.09		ug/L		106	70 - 130
Acenaphthene	1.97	1.99		ug/L		101	70 - 130
Acenaphthylene	1.97	1.82		ug/L		93	70 - 130
Acetochlor	1.97	1.98		ug/L		101	70 - 130
Alachlor	1.97	1.97		ug/L		100	70 - 130
alpha-BHC	1.97	1.93		ug/L		98	70 - 130
alpha-Chlordane	1.97	1.98		ug/L		101	70 - 130
Anthracene	1.97	2.21		ug/L		113	70 - 130
Atrazine	1.97	2.16		ug/L		110	70 - 130
Benz(a)anthracene	1.97	2.04		ug/L		104	70 - 130
Benzo[a]pyrene	1.97	2.24		ug/L		114	70 - 130
Benzo[b]fluoranthene	1.97	2.07		ug/L		105	70 - 130
Benzo[g,h,i]perylene	1.97	2.10		ug/L		107	70 - 130
Benzo[k]fluoranthene	1.97	2.01		ug/L		102	70 - 130
beta-BHC	1.97	2.05		ug/L		104	70 - 130
Bis(2-ethylhexyl) phthalate	1.97	2.04		ug/L		104	70 - 130
Bromacil	1.97	1.76		ug/L		90	70 - 130
Butachlor	1.97	2.11		ug/L		107	70 - 130
Butylbenzylphthalate	1.97	2.17		ug/L		110	70 - 130
Chlorobenzilate	1.97	2.27		ug/L		115	70 - 130
Chloroneb	1.97	1.96		ug/L		100	70 - 130
Chlorothalonil (Draconil, Bravo)	1.97	2.12		ug/L		108	70 - 130
Chlorpyrifos	1.97	2.04		ug/L		104	70 - 130
Chrysene	1.97	1.94		ug/L		98	70 - 130
delta-BHC	1.97	1.96		ug/L		100	70 - 130
Di(2-ethylhexyl)adipate	1.97	2.47		ug/L		126	70 - 130
Dibenz(a,h)anthracene	1.97	2.25		ug/L		115	70 - 130
Diclorvos (DDVP)	1.97	2.06		ug/L		105	70 - 130
Dieldrin	1.97	2.05		ug/L		104	70 - 130
Diethylphthalate	1.97	1.99		ug/L		101	70 - 130
Dimethylphthalate	1.97	1.85		ug/L		94	70 - 130
Di-n-butyl phthalate	3.93	4.03		ug/L		102	70 - 130
Di-n-octyl phthalate	1.97	2.11		ug/L		108	70 - 130
Endosulfan I (Alpha)	1.97	2.05		ug/L		104	70 - 130
Endosulfan II (Beta)	1.97	2.03		ug/L		103	70 - 130
Endosulfan sulfate	1.97	2.17		ug/L		110	70 - 130
Endrin	1.97	2.23		ug/L		114	70 - 130
Endrin aldehyde	1.97	1.77		ug/L		90	60 - 130
EPTC	1.97	1.96		ug/L		100	70 - 130
Fluoranthene	1.97	2.24		ug/L		114	70 - 130
Fluorene	1.97	1.87		ug/L		95	70 - 130

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QC Sample Results

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

Job ID: 380-192677-1
SDG: Weekly: Halawa Well P1

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

Lab Sample ID: LCS 380-199062/23-A

Matrix: Water

Analysis Batch: 199342

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 199062

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
gamma-Chlordane	1.97	1.93		ug/L		98	70 - 130
Heptachlor	1.97	1.87		ug/L		95	70 - 130
Heptachlor epoxide (isomer B)	1.97	1.65		ug/L		84	70 - 130
Hexachlorobenzene	1.97	1.79		ug/L		91	70 - 130
Hexachlorocyclopentadiene	1.97	1.96		ug/L		100	70 - 130
Indeno[1,2,3-cd]pyrene	1.97	2.28		ug/L		116	70 - 130
Isophorone	1.97	1.98		ug/L		101	70 - 130
Lindane	1.97	2.02		ug/L		103	70 - 130
Malathion	1.97	2.17		ug/L		111	70 - 130
Methoxychlor	1.97	2.04		ug/L		104	70 - 130
Metolachlor	1.97	1.98		ug/L		101	70 - 130
Molinate	1.97	2.08		ug/L		106	70 - 130
Naphthalene	1.97	1.78		ug/L		90	70 - 130
Parathion	1.97	2.34		ug/L		119	70 - 130
Pendimethalin (Penoxaline)	1.97	2.06		ug/L		105	70 - 130
Phenanthrene	1.97	1.93		ug/L		98	70 - 130
Propachlor	1.97	2.17		ug/L		110	70 - 130
Pyrene	1.97	2.35		ug/L		120	70 - 130
Simazine	1.97	2.16		ug/L		110	70 - 130
Terbacil	1.97	1.79		ug/L		91	70 - 130
Terbutylazine	1.97	2.21		ug/L		112	70 - 130
Thiobencarb	1.97	2.22		ug/L		113	70 - 130
trans-Nonachlor	1.97	1.98		ug/L		101	70 - 130
Trifluralin	1.97	1.93		ug/L		98	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Nitro-m-xylene	98		70 - 130
Perylene-d12	99		70 - 130
Triphenylphosphate	100		70 - 130

Lab Sample ID: MRL 380-199062/22-A

Matrix: Water

Analysis Batch: 199342

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 199062

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	0.0981	0.113		ug/L		116	50 - 150
2,4'-DDD	0.0981	0.0859	J	ug/L		88	50 - 150
2,4'-DDE	0.0981	0.103		ug/L		105	50 - 150
2,4'-DDT	0.0981	0.0975	J	ug/L		99	50 - 150
2,4-Dinitrotoluene	0.0981	0.0986		ug/L		100	50 - 150
2,6-Dinitrotoluene	0.0981	0.118		ug/L		121	50 - 150
2-Methylnaphthalene	0.0981	0.108		ug/L		110	50 - 150
4,4'-DDD	0.0981	0.101		ug/L		103	50 - 150
4,4'-DDE	0.0981	0.0953	J	ug/L		97	50 - 150
4,4'-DDT	0.0981	0.117		ug/L		119	50 - 150
Acenaphthene	0.0981	0.0908	J	ug/L		93	50 - 150
Acenaphthylene	0.0981	0.0917	J	ug/L		93	50 - 150
Acetochlor	0.0981	0.126		ug/L		128	50 - 150

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QC Sample Results

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

Job ID: 380-192677-1
SDG: Weekly: Halawa Well P1

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

Lab Sample ID: MRL 380-199062/22-A

Matrix: Water

Analysis Batch: 199342

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 199062

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Alachlor	0.0491	0.0620		ug/L		126	50 - 150
alpha-BHC	0.0981	0.0991		ug/L		101	50 - 150
alpha-Chlordane	0.0245	<0.028		ug/L		92	50 - 150
Anthracene	0.0196	0.0233		ug/L		119	50 - 150
Atrazine	0.0491	0.0558		ug/L		114	50 - 150
Benz(a)anthracene	0.0491	0.0659		ug/L		134	50 - 150
Benzo[a]pyrene	0.0196	0.0262		ug/L		133	50 - 150
Benzo[b]fluoranthene	0.0196	0.0241		ug/L		123	50 - 150
Benzo[g,h,i]perylene	0.0491	0.0528		ug/L		108	50 - 150
Benzo[k]fluoranthene	0.0196	0.0244		ug/L		124	50 - 150
beta-BHC	0.0981	0.101		ug/L		103	50 - 150
Bis(2-ethylhexyl) phthalate	0.589	0.715		ug/L		121	50 - 150
Bromacil	0.0981	0.102		ug/L		104	50 - 150
Butachlor	0.0491	0.0665		ug/L		136	50 - 150
Butylbenzylphthalate	0.491	0.611		ug/L		124	50 - 150
Chlorobenzilate	0.0981	0.107		ug/L		109	50 - 150
Chloroneb	0.0981	0.0987		ug/L		101	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0981	0.0898	J	ug/L		91	50 - 150
Chlorpyrifos	0.0491	0.0530		ug/L		108	50 - 150
Chrysene	0.0196	0.0227		ug/L		116	50 - 150
delta-BHC	0.0981	0.112		ug/L		114	50 - 150
Di(2-ethylhexyl)adipate	0.589	0.807		ug/L		137	50 - 150
Dibenz(a,h)anthracene	0.0491	0.0488	J	ug/L		99	50 - 150
Diclorvos (DDVP)	0.0491	0.0618		ug/L		126	50 - 150
Dieldrin	0.00981	0.0109		ug/L		111	50 - 150
Diethylphthalate	0.491	0.558		ug/L		114	50 - 150
Dimethylphthalate	0.491	0.489	J	ug/L		100	50 - 150
Di-n-butyl phthalate	0.491	0.559	J	ug/L		114	49 - 243
Di-n-octyl phthalate	0.0981	0.108		ug/L		110	50 - 150
Endosulfan I (Alpha)	0.0981	0.0933	J	ug/L		95	50 - 150
Endosulfan II (Beta)	0.0981	0.100		ug/L		102	50 - 150
Endosulfan sulfate	0.0981	0.0872	J	ug/L		89	50 - 150
Endrin	0.00981	0.0121		ug/L		123	50 - 150
Endrin aldehyde	0.0981	0.101		ug/L		103	50 - 150
EPTC	0.0981	0.103		ug/L		104	50 - 150
Fluoranthene	0.0981	0.0990		ug/L		101	50 - 150
Fluorene	0.0491	0.0574		ug/L		117	50 - 150
gamma-Chlordane	0.0245	0.0244	J	ug/L		99	50 - 150
Heptachlor	0.00981	0.0139		ug/L		141	50 - 150
Heptachlor epoxide (isomer B)	0.00981	0.0101		ug/L		103	50 - 150
Hexachlorobenzene	0.0491	0.0477	J	ug/L		97	50 - 150
Hexachlorocyclopentadiene	0.0491	0.0477	J	ug/L		97	50 - 150
Indeno[1,2,3-cd]pyrene	0.0491	0.0519		ug/L		106	50 - 150
Isophorone	0.0981	0.123		ug/L		125	50 - 150
Lindane	0.00981	0.00930	J	ug/L		95	50 - 150
Malathion	0.0981	0.101		ug/L		103	50 - 150
Methoxychlor	0.0491	0.0584		ug/L		119	50 - 150
Metolachlor	0.0491	0.0599		ug/L		122	50 - 150
Molinate	0.0981	0.102		ug/L		104	50 - 150

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QC Sample Results

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

Job ID: 380-192677-1
SDG: Weekly: Halawa Well P1

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

Lab Sample ID: MRL 380-199062/22-A

Matrix: Water

Analysis Batch: 199342

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 199062

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Naphthalene	0.0981	0.111		ug/L		113	50 - 150
Parathion	0.0981	0.0979	J	ug/L		100	50 - 150
Pendimethalin (Penoxaline)	0.0981	0.0946	J	ug/L		96	50 - 150
Phenanthrene	0.0393	0.0424		ug/L		108	50 - 150
Propachlor	0.0491	0.0572		ug/L		117	50 - 150
Pyrene	0.0491	0.0494		ug/L		101	50 - 150
Simazine	0.0491	0.0457	J	ug/L		93	50 - 150
Terbacil	0.0981	0.124		ug/L		127	50 - 150
Terbutylazine	0.0981	0.107		ug/L		109	50 - 150
Thiobencarb	0.0981	0.112		ug/L		114	50 - 150
trans-Nonachlor	0.0245	<0.026		ug/L		84	50 - 150
Trifluralin	0.0981	0.0886	J	ug/L		90	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
2-Nitro-m-xylene	101		70 - 130
Perylene-d12	94		70 - 130
Triphenylphosphate	97		70 - 130

Lab Sample ID: 380-192710-U-1-A MS

Matrix: Water

Analysis Batch: 199342

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 199062

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.098		1.97	2.01		ug/L		102	70 - 130
2,4'-DDD	<0.098		1.97	2.01		ug/L		102	70 - 130
2,4'-DDE	<0.098		1.97	1.94		ug/L		99	70 - 130
2,4'-DDT	<0.098		1.97	2.03		ug/L		103	70 - 130
2,4-Dinitrotoluene	<0.098		1.97	2.07		ug/L		105	70 - 130
2,6-Dinitrotoluene	<0.098		1.97	1.93		ug/L		98	70 - 130
2-Methylnaphthalene	<0.098		1.97	2.05		ug/L		104	70 - 130
4,4'-DDD	<0.098		1.97	2.10		ug/L		106	70 - 130
4,4'-DDE	<0.098		1.97	1.74		ug/L		88	70 - 130
4,4'-DDT	<0.098		1.97	2.01		ug/L		102	70 - 130
Acenaphthene	<0.098		1.97	1.99		ug/L		101	70 - 130
Acenaphthylene	<0.098		1.97	1.81		ug/L		92	70 - 130
Acetochlor	<0.098		1.97	1.98		ug/L		101	70 - 130
Alachlor	<0.049		1.97	1.95		ug/L		99	70 - 130
alpha-BHC	<0.098		1.97	1.94		ug/L		99	70 - 130
alpha-Chlordane	<0.049		1.97	1.94		ug/L		98	70 - 130
Anthracene	<0.020		1.97	1.45		ug/L		74	70 - 130
Atrazine	<0.049		1.97	2.20		ug/L		112	70 - 130
Benz(a)anthracene	<0.049		1.97	1.91		ug/L		97	70 - 130
Benzo[a]pyrene	<0.020		1.97	2.03		ug/L		103	70 - 130
Benzo[b]fluoranthene	<0.020		1.97	2.04		ug/L		104	70 - 130
Benzo[g,h,i]perylene	<0.049		1.97	2.03		ug/L		103	70 - 130
Benzo[k]fluoranthene	<0.020		1.97	1.99		ug/L		101	70 - 130
beta-BHC	<0.098		1.97	2.04		ug/L		103	70 - 130
Bis(2-ethylhexyl) phthalate	<0.59		1.97	1.83		ug/L		93	70 - 130

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QC Sample Results

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

Job ID: 380-192677-1
SDG: Weekly: Halawa Well P1

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

Lab Sample ID: 380-192710-U-1-A MS

Matrix: Water

Analysis Batch: 199342

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 199062

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Bromacil	<0.098		1.97	2.01		ug/L		102	70 - 130
Butachlor	<0.049		1.97	2.15		ug/L		109	70 - 130
Butylbenzylphthalate	<0.49		1.97	2.15		ug/L		109	70 - 130
Chlorobenzilate	<0.098		1.97	2.26		ug/L		115	70 - 130
Chloroneb	<0.098		1.97	1.96		ug/L		100	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.098		1.97	2.10		ug/L		107	70 - 130
Chlorpyrifos	<0.049		1.97	2.04		ug/L		103	70 - 130
Chrysene	<0.020		1.97	1.90		ug/L		96	70 - 130
delta-BHC	<0.098		1.97	1.96		ug/L		99	70 - 130
Di(2-ethylhexyl)adipate	<0.59		1.97	2.23		ug/L		113	70 - 130
Dibenz(a,h)anthracene	<0.049		1.97	2.15		ug/L		109	70 - 130
Diclorvos (DDVP)	<0.049		1.97	2.17		ug/L		110	70 - 130
Dieldrin	0.016		1.97	2.02		ug/L		102	70 - 130
Diethylphthalate	<0.49		1.97	1.99		ug/L		101	70 - 130
Dimethylphthalate	<0.49		1.97	1.92		ug/L		98	70 - 130
Di-n-butyl phthalate	<0.98		3.94	3.95		ug/L		100	70 - 130
Di-n-octyl phthalate	<0.098		1.97	1.85		ug/L		94	70 - 130
Endosulfan I (Alpha)	<0.098		1.97	2.05		ug/L		104	70 - 130
Endosulfan II (Beta)	<0.098		1.97	1.99		ug/L		101	70 - 130
Endosulfan sulfate	<0.098		1.97	2.17		ug/L		110	70 - 130
Endrin	<0.0098		1.97	2.20		ug/L		112	70 - 130
Endrin aldehyde	<0.098		1.97	1.56		ug/L		79	60 - 130
EPTC	<0.098		1.97	2.02		ug/L		102	70 - 130
Fluoranthene	<0.098		1.97	2.19		ug/L		111	70 - 130
Fluorene	<0.049		1.97	1.88		ug/L		96	70 - 130
gamma-Chlordane	<0.049		1.97	1.89		ug/L		96	70 - 130
Heptachlor	<0.0098		1.97	1.89		ug/L		96	70 - 130
Heptachlor epoxide (isomer B)	<0.0098		1.97	1.63		ug/L		83	70 - 130
Hexachlorobenzene	<0.049		1.97	1.79		ug/L		91	70 - 130
Hexachlorocyclopentadiene	<0.049		1.97	2.01		ug/L		102	70 - 130
Indeno[1,2,3-cd]pyrene	<0.049		1.97	2.24		ug/L		114	70 - 130
Isophorone	<0.098		1.97	2.04		ug/L		104	70 - 130
Lindane	<0.0098		1.97	2.04		ug/L		103	70 - 130
Malathion	<0.098		1.97	2.19		ug/L		111	70 - 130
Methoxychlor	<0.049		1.97	2.08		ug/L		106	70 - 130
Metolachlor	<0.049		1.97	1.98		ug/L		101	70 - 130
Molinate	<0.098		1.97	2.11		ug/L		107	70 - 130
Naphthalene	<0.098		1.97	1.84		ug/L		93	70 - 130
Parathion	<0.098		1.97	2.39		ug/L		121	70 - 130
Pendimethalin (Penoxaline)	<0.098		1.97	2.11		ug/L		107	70 - 130
Phenanthrene	<0.039		1.97	1.91		ug/L		97	70 - 130
Propachlor	<0.049		1.97	2.21		ug/L		112	70 - 130
Pyrene	<0.049		1.97	2.28		ug/L		116	70 - 130
Simazine	<0.049		1.97	2.28		ug/L		116	70 - 130
Terbacil	<0.098		1.97	2.00		ug/L		102	70 - 130
Terbutylazine	<0.098		1.97	2.23		ug/L		113	70 - 130
Thiobencarb	<0.098		1.97	2.21		ug/L		112	70 - 130
trans-Nonachlor	<0.049		1.97	1.95		ug/L		99	70 - 130
Trifluralin	<0.098		1.97	1.99		ug/L		101	70 - 130

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QC Sample Results

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

Job ID: 380-192677-1
SDG: Weekly: Halawa Well P1

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

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Nitro-m-xylene	101		70 - 130
Perylene-d12	98		70 - 130
Triphenylphosphate	101		70 - 130

Lab Sample ID: 380-192710-V-1-A MSD
Matrix: Water
Analysis Batch: 199342

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 199062

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	<0.098		1.99	2.00		ug/L		101	70 - 130	0	20
2,4'-DDD	<0.098		1.99	2.02		ug/L		102	70 - 130	0	20
2,4'-DDE	<0.098		1.99	1.95		ug/L		98	70 - 130	0	20
2,4'-DDT	<0.098		1.99	2.05		ug/L		103	70 - 130	1	20
2,4-Dinitrotoluene	<0.098		1.99	2.07		ug/L		104	70 - 130	0	20
2,6-Dinitrotoluene	<0.098		1.99	1.95		ug/L		98	70 - 130	1	20
2-Methylnaphthalene	<0.098		1.99	2.03		ug/L		102	70 - 130	1	20
4,4'-DDD	<0.098		1.99	2.12		ug/L		107	70 - 130	1	20
4,4'-DDE	<0.098		1.99	1.74		ug/L		87	70 - 130	0	20
4,4'-DDT	<0.098		1.99	2.02		ug/L		102	70 - 130	1	20
Acenaphthene	<0.098		1.99	1.98		ug/L		100	70 - 130	0	20
Acenaphthylene	<0.098		1.99	1.84		ug/L		92	70 - 130	2	20
Acetochlor	<0.098		1.99	2.00		ug/L		101	70 - 130	1	20
Alachlor	<0.049		1.99	1.99		ug/L		100	70 - 130	2	20
alpha-BHC	<0.098		1.99	1.96		ug/L		99	70 - 130	1	20
alpha-Chlordane	<0.049		1.99	1.96		ug/L		98	70 - 130	1	20
Anthracene	<0.020		1.99	1.41		ug/L		71	70 - 130	3	20
Atrazine	<0.049		1.99	2.22		ug/L		112	70 - 130	1	20
Benz(a)anthracene	<0.049		1.99	1.94		ug/L		98	70 - 130	2	20
Benzo[a]pyrene	<0.020		1.99	2.04		ug/L		103	70 - 130	0	20
Benzo[b]fluoranthene	<0.020		1.99	2.07		ug/L		104	70 - 130	1	20
Benzo[g,h,i]perylene	<0.049		1.99	2.05		ug/L		103	70 - 130	1	20
Benzo[k]fluoranthene	<0.020		1.99	2.01		ug/L		101	70 - 130	1	20
beta-BHC	<0.098		1.99	2.09		ug/L		105	70 - 130	2	20
Bis(2-ethylhexyl) phthalate	<0.59		1.99	1.81		ug/L		91	70 - 130	1	20
Bromacil	<0.098		1.99	2.00		ug/L		101	70 - 130	1	20
Butachlor	<0.049		1.99	2.16		ug/L		109	70 - 130	0	20
Butylbenzylphthalate	<0.49		1.99	2.22		ug/L		112	70 - 130	4	20
Chlorobenzilate	<0.098		1.99	2.29		ug/L		115	70 - 130	1	20
Chloroneb	<0.098		1.99	2.01		ug/L		101	70 - 130	2	20
Chlorothalonil (Draconil, Bravo)	<0.098		1.99	2.13		ug/L		108	70 - 130	2	20
Chlorpyrifos	<0.049		1.99	2.06		ug/L		104	70 - 130	1	20
Chrysene	<0.020		1.99	1.94		ug/L		97	70 - 130	2	20
delta-BHC	<0.098		1.99	1.97		ug/L		99	70 - 130	1	20
Di(2-ethylhexyl)adipate	<0.59		1.99	2.27		ug/L		114	70 - 130	1	20
Dibenz(a,h)anthracene	<0.049		1.99	2.15		ug/L		108	70 - 130	0	20
Diclorvos (DDVP)	<0.049		1.99	2.18		ug/L		110	70 - 130	1	20
Dieldrin	0.016		1.99	2.08		ug/L		104	70 - 130	3	20
Diethylphthalate	<0.49		1.99	2.03		ug/L		102	70 - 130	2	20
Dimethylphthalate	<0.49		1.99	1.91		ug/L		96	70 - 130	0	20
Di-n-butyl phthalate	<0.98		3.97	4.03		ug/L		102	70 - 130	2	20
Di-n-octyl phthalate	<0.098		1.99	1.81		ug/L		91	70 - 130	2	20

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QC Sample Results

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

Job ID: 380-192677-1
SDG: Weekly: Halawa Well P1

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

Lab Sample ID: 380-192710-V-1-A MSD

Matrix: Water

Analysis Batch: 199342

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 199062

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Endosulfan I (Alpha)	<0.098		1.99	2.05		ug/L		103	70 - 130	0	20
Endosulfan II (Beta)	<0.098		1.99	2.00		ug/L		101	70 - 130	1	20
Endosulfan sulfate	<0.098		1.99	2.18		ug/L		110	70 - 130	0	20
Endrin	<0.0098		1.99	2.23		ug/L		112	70 - 130	1	20
Endrin aldehyde	<0.098		1.99	1.58		ug/L		80	60 - 130	1	20
EPTC	<0.098		1.99	2.01		ug/L		101	70 - 130	0	20
Fluoranthene	<0.098		1.99	2.25		ug/L		113	70 - 130	2	20
Fluorene	<0.049		1.99	1.89		ug/L		95	70 - 130	0	20
gamma-Chlordane	<0.049		1.99	1.91		ug/L		96	70 - 130	1	20
Heptachlor	<0.0098		1.99	1.87		ug/L		94	70 - 130	1	20
Heptachlor epoxide (isomer B)	<0.0098		1.99	1.63		ug/L		82	70 - 130	0	20
Hexachlorobenzene	<0.049		1.99	1.78		ug/L		90	70 - 130	0	20
Hexachlorocyclopentadiene	<0.049		1.99	2.02		ug/L		102	70 - 130	0	20
Indeno[1,2,3-cd]pyrene	<0.049		1.99	2.26		ug/L		114	70 - 130	1	20
Isophorone	<0.098		1.99	2.00		ug/L		101	70 - 130	2	20
Lindane	<0.0098		1.99	2.06		ug/L		104	70 - 130	1	20
Malathion	<0.098		1.99	2.21		ug/L		111	70 - 130	1	20
Methoxychlor	<0.049		1.99	2.14		ug/L		108	70 - 130	3	20
Metolachlor	<0.049		1.99	1.99		ug/L		100	70 - 130	1	20
Molinate	<0.098		1.99	2.10		ug/L		106	70 - 130	1	20
Naphthalene	<0.098		1.99	1.82		ug/L		92	70 - 130	1	20
Parathion	<0.098		1.99	2.41		ug/L		121	70 - 130	1	20
Pendimethalin (Penoxaline)	<0.098		1.99	2.16		ug/L		109	70 - 130	2	20
Phenanthrene	<0.039		1.99	1.91		ug/L		96	70 - 130	0	20
Propachlor	<0.049		1.99	2.26		ug/L		114	70 - 130	3	20
Pyrene	<0.049		1.99	2.34		ug/L		118	70 - 130	3	20
Simazine	<0.049		1.99	2.26		ug/L		114	70 - 130	1	20
Terbacil	<0.098		1.99	1.98		ug/L		100	70 - 130	1	20
Terbutylazine	<0.098		1.99	2.31		ug/L		116	70 - 130	3	20
Thiobencarb	<0.098		1.99	2.24		ug/L		113	70 - 130	1	20
trans-Nonachlor	<0.049		1.99	1.94		ug/L		98	70 - 130	1	20
Trifluralin	<0.098		1.99	2.02		ug/L		102	70 - 130	1	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Nitro-m-xylene	101		70 - 130
Perylene-d12	97		70 - 130
Triphenylphosphate	103		70 - 130

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

Lab Sample ID: MB 570-684318/1-A

Matrix: Water

Analysis Batch: 688721

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 684318

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	01/20/26 06:00	01/29/26 19:23	1

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QC Sample Results

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

Job ID: 380-192677-1
SDG: Weekly: Halawa Well P1

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

Lab Sample ID: MB 570-684318/1-A

Matrix: Water

Analysis Batch: 688721

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 684318

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	67		33 - 139	01/20/26 06:00	01/29/26 19:23	1
2-Fluorobiphenyl (Surr)	87		33 - 126	01/20/26 06:00	01/29/26 19:23	1
2-Fluorophenol (Surr)	61		12 - 120	01/20/26 06:00	01/29/26 19:23	1
Nitrobenzene-d5 (Surr)	101		36 - 120	01/20/26 06:00	01/29/26 19:23	1
Phenol-d6 (Surr)	37		10 - 120	01/20/26 06:00	01/29/26 19:23	1
p-Terphenyl-d14 (Surr)	88		47 - 131	01/20/26 06:00	01/29/26 19:23	1

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

Lab Sample ID: MB 570-684318/1-A

Matrix: Water

Analysis Batch: 687438

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 684318

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.20		0.20	ug/L		01/20/26 06:00	01/27/26 07:13	1
2-Methylnaphthalene	<0.20		0.20	ug/L		01/20/26 06:00	01/27/26 07:13	1
Acenaphthene	<0.20		0.20	ug/L		01/20/26 06:00	01/27/26 07:13	1
Acenaphthylene	<0.20		0.20	ug/L		01/20/26 06:00	01/27/26 07:13	1
Anthracene	<0.20		0.20	ug/L		01/20/26 06:00	01/27/26 07:13	1
Benzo[a]anthracene	<0.20		0.20	ug/L		01/20/26 06:00	01/27/26 07:13	1
Benzo[a]pyrene	<0.20		0.20	ug/L		01/20/26 06:00	01/27/26 07:13	1
Benzo[b]fluoranthene	<0.20		0.20	ug/L		01/20/26 06:00	01/27/26 07:13	1
Benzo[g,h,i]perylene	<0.20		0.20	ug/L		01/20/26 06:00	01/27/26 07:13	1
Benzo[k]fluoranthene	<0.20		0.20	ug/L		01/20/26 06:00	01/27/26 07:13	1
Chrysene	<0.20		0.20	ug/L		01/20/26 06:00	01/27/26 07:13	1
Dibenz(a,h)anthracene	<0.20		0.20	ug/L		01/20/26 06:00	01/27/26 07:13	1
Fluoranthene	<0.20		0.20	ug/L		01/20/26 06:00	01/27/26 07:13	1
Fluorene	<0.20		0.20	ug/L		01/20/26 06:00	01/27/26 07:13	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20	ug/L		01/20/26 06:00	01/27/26 07:13	1
Naphthalene	<0.20		0.20	ug/L		01/20/26 06:00	01/27/26 07:13	1
Phenanthrene	<0.20		0.20	ug/L		01/20/26 06:00	01/27/26 07:13	1
Pyrene	<0.20		0.20	ug/L		01/20/26 06:00	01/27/26 07:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	102		28 - 127	01/20/26 06:00	01/27/26 07:13	1
2-Fluorobiphenyl (Surr)	87		31 - 120	01/20/26 06:00	01/27/26 07:13	1
2-Fluorophenol (Surr)	57		17 - 120	01/20/26 06:00	01/27/26 07:13	1
Nitrobenzene-d5 (Surr)	89		27 - 120	01/20/26 06:00	01/27/26 07:13	1
Phenol-d6 (Surr)	37		10 - 120	01/20/26 06:00	01/27/26 07:13	1
p-Terphenyl-d14 (Surr)	84		45 - 120	01/20/26 06:00	01/27/26 07:13	1

Lab Sample ID: LCS 570-684318/2-A

Matrix: Water

Analysis Batch: 687438

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 684318

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	20.0	18.0		ug/L		90	47 - 120
2-Methylnaphthalene	20.0	18.0		ug/L		90	43 - 120

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QC Sample Results

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

Job ID: 380-192677-1
SDG: Weekly: Halawa Well P1

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

Lab Sample ID: LCS 570-684318/2-A

Matrix: Water

Analysis Batch: 687438

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 684318

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	20.0	18.4		ug/L		92	60 - 132
Acenaphthylene	20.0	18.5		ug/L		92	54 - 126
Anthracene	20.0	18.1		ug/L		90	43 - 120
Benzo[a]anthracene	20.0	19.0		ug/L		95	42 - 133
Benzo[a]pyrene	20.0	19.2		ug/L		96	32 - 148
Benzo[b]fluoranthene	20.0	19.1		ug/L		96	42 - 140
Benzo[g,h,i]perylene	20.0	17.2		ug/L		86	1 - 195
Benzo[k]fluoranthene	20.0	18.2		ug/L		91	25 - 146
Chrysene	20.0	18.4		ug/L		92	44 - 140
Dibenz(a,h)anthracene	20.0	18.0		ug/L		90	1 - 200
Fluoranthene	20.0	18.7		ug/L		93	43 - 121
Fluorene	20.0	18.5		ug/L		92	70 - 120
Indeno[1,2,3-cd]pyrene	20.0	18.1		ug/L		91	1 - 151
Naphthalene	20.0	17.8		ug/L		89	36 - 120
Phenanthrene	20.0	18.2		ug/L		91	65 - 120
Pyrene	20.0	19.4		ug/L		97	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	91		28 - 127
2-Fluorobiphenyl (Surr)	85		31 - 120
2-Fluorophenol (Surr)	59		17 - 120
Nitrobenzene-d5 (Surr)	87		27 - 120
Phenol-d6 (Surr)	40		10 - 120
p-Terphenyl-d14 (Surr)	92		45 - 120

Lab Sample ID: LCSD 570-684318/3-A

Matrix: Water

Analysis Batch: 687438

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 684318

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	20.0	19.0		ug/L		95	47 - 120	6	20
2-Methylnaphthalene	20.0	19.0		ug/L		95	43 - 120	5	20
Acenaphthene	20.0	19.0		ug/L		95	60 - 132	3	29
Acenaphthylene	20.0	19.2		ug/L		96	54 - 126	4	45
Anthracene	20.0	19.2		ug/L		96	43 - 120	6	40
Benzo[a]anthracene	20.0	20.0		ug/L		100	42 - 133	5	32
Benzo[a]pyrene	20.0	20.5		ug/L		103	32 - 148	7	43
Benzo[b]fluoranthene	20.0	19.8		ug/L		99	42 - 140	4	43
Benzo[g,h,i]perylene	20.0	18.7		ug/L		93	1 - 195	9	61
Benzo[k]fluoranthene	20.0	19.7		ug/L		98	25 - 146	8	38
Chrysene	20.0	19.3		ug/L		97	44 - 140	5	53
Dibenz(a,h)anthracene	20.0	19.6		ug/L		98	1 - 200	8	75
Fluoranthene	20.0	19.3		ug/L		97	43 - 121	3	40
Fluorene	20.0	19.2		ug/L		96	70 - 120	4	23
Indeno[1,2,3-cd]pyrene	20.0	19.6		ug/L		98	1 - 151	8	60
Naphthalene	20.0	18.6		ug/L		93	36 - 120	4	39
Phenanthrene	20.0	18.8		ug/L		94	65 - 120	4	24
Pyrene	20.0	20.3		ug/L		101	70 - 120	4	30

Eurofins Pomona

QC Sample Results

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

Job ID: 380-192677-1
SDG: Weekly: Halawa Well P1

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

Lab Sample ID: LCSD 570-684318/3-A

Matrix: Water

Analysis Batch: 687438

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 684318

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	93		28 - 127
2-Fluorobiphenyl (Surr)	89		31 - 120
2-Fluorophenol (Surr)	63		17 - 120
Nitrobenzene-d5 (Surr)	90		27 - 120
Phenol d6 (Surr)	43		10 - 120
p-Terphenyl-d14 (Surr)	92		45 - 120

Lab Sample ID: 380-192972-A-1-A MS

Matrix: Water

Analysis Batch: 687438

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 684318

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.19		19.2	14.8		ug/L		77	36 - 120
2-Methylnaphthalene	<0.19		19.2	14.4		ug/L		75	32 - 124
Acenaphthene	<0.19		19.2	15.0		ug/L		78	47 - 145
Acenaphthylene	<0.19		19.2	15.2		ug/L		79	33 - 145
Anthracene	<0.19		19.2	15.3		ug/L		79	27 - 133
Benzo[a]anthracene	<0.19		19.2	15.6		ug/L		81	33 - 143
Benzo[a]pyrene	<0.19		19.2	14.5		ug/L		76	17 - 163
Benzo[b]fluoranthene	<0.19		19.2	14.6		ug/L		76	24 - 159
Benzo[g,h,i]perylene	<0.19		19.2	12.7		ug/L		66	1 - 219
Benzo[k]fluoranthene	<0.19		19.2	13.9		ug/L		73	11 - 162
Chrysene	<0.19		19.2	14.9		ug/L		77	17 - 168
Dibenz(a,h)anthracene	<0.19		19.2	13.0		ug/L		67	1 - 227
Fluoranthene	<0.19		19.2	15.8		ug/L		82	26 - 137
Fluorene	<0.19		19.2	15.2		ug/L		79	59 - 121
Indeno[1,2,3-cd]pyrene	<0.19		19.2	13.4		ug/L		69	1 - 171
Naphthalene	<0.19		19.2	14.6		ug/L		76	21 - 133
Phenanthrene	<0.19		19.2	15.4		ug/L		80	54 - 120
Pyrene	<0.19		19.2	16.9		ug/L		88	52 - 120

Surrogate	MS %Recovery	MS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	80		28 - 127
2-Fluorobiphenyl (Surr)	75		31 - 120
2-Fluorophenol (Surr)	51		17 - 120
Nitrobenzene-d5 (Surr)	74		27 - 120
Phenol-d6 (Surr)	34		10 - 120
p-Terphenyl-d14 (Surr)	76		45 - 120

Lab Sample ID: 380-192972-A-1-B MSD

Matrix: Water

Analysis Batch: 687438

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 684318

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	<0.19		19.2	16.1		ug/L		84	36 - 120	9	30
2-Methylnaphthalene	<0.19		19.2	16.0		ug/L		83	32 - 124	10	30
Acenaphthene	<0.19		19.2	15.9		ug/L		83	47 - 145	6	48
Acenaphthylene	<0.19		19.2	16.0		ug/L		83	33 - 145	5	74

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QC Sample Results

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

Job ID: 380-192677-1
SDG: Weekly: Halawa Well P1

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

Lab Sample ID: 380-192972-A-1-B MSD

Matrix: Water

Analysis Batch: 687438

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 684318

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Anthracene	<0.19		19.2	16.4		ug/L		85	27 - 133	7	66
Benzo[a]anthracene	<0.19		19.2	16.8		ug/L		87	33 - 143	7	53
Benzo[a]pyrene	<0.19		19.2	15.6		ug/L		81	17 - 163	7	72
Benzo[b]fluoranthene	<0.19		19.2	15.5		ug/L		81	24 - 159	6	71
Benzo[g,h,i]perylene	<0.19		19.2	14.2		ug/L		74	1 - 219	11	97
Benzo[k]fluoranthene	<0.19		19.2	15.0		ug/L		78	11 - 162	7	63
Chrysene	<0.19		19.2	16.1		ug/L		84	17 - 168	8	87
Dibenz(a,h)anthracene	<0.19		19.2	14.7		ug/L		76	1 - 227	12	126
Fluoranthene	<0.19		19.2	17.1		ug/L		89	26 - 137	8	66
Fluorene	<0.19		19.2	16.1		ug/L		84	59 - 121	6	38
Indeno[1,2,3-cd]pyrene	<0.19		19.2	14.8		ug/L		77	1 - 171	10	99
Naphthalene	<0.19		19.2	15.9		ug/L		82	21 - 133	8	65
Phenanthrene	<0.19		19.2	16.3		ug/L		85	54 - 120	6	39
Pyrene	<0.19		19.2	18.0		ug/L		94	52 - 120	7	49

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	86		28 - 127
2-Fluorobiphenyl (Surr)	80		31 - 120
2-Fluorophenol (Surr)	54		17 - 120
Nitrobenzene-d5 (Surr)	80		27 - 120
Phenol-d6 (Surr)	36		10 - 120
p-Terphenyl-d14 (Surr)	82		45 - 120

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

Lab Sample ID: MB 570-683659/5

Matrix: Water

Analysis Batch: 683659

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			01/17/26 12:11	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		38 - 134		01/17/26 12:11	1

Lab Sample ID: LCS 570-683659/3

Matrix: Water

Analysis Batch: 683659

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	392		ug/L		98	78 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	87		38 - 134

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QC Sample Results

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

Job ID: 380-192677-1
SDG: Weekly: Halawa Well P1

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

Lab Sample ID: LCSD 570-683659/4

Matrix: Water

Analysis Batch: 683659

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (C4-C13)			400	392		ug/L		98	78 - 120	0	10
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	98		38 - 134								

Lab Sample ID: MRL 570-683659/6

Matrix: Water

Analysis Batch: 683659

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (C4-C13)			10.0	7.96	J	ug/L		80	50 - 150		
Surrogate	MRL %Recovery	MRL Qualifier	Limits								
4-Bromofluorobenzene (Surr)	87		38 - 134								

Lab Sample ID: 380-192922-C-1 MS

Matrix: Water

Analysis Batch: 683659

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (C4-C13)	<10		400	367		ug/L		92	68 - 122		
Surrogate	MS %Recovery	MS Qualifier	Limits								
4-Bromofluorobenzene (Surr)	92		38 - 134								

Lab Sample ID: 380-192922-C-1 MSD

Matrix: Water

Analysis Batch: 683659

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	393		ug/L		98	68 - 122	7	18
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	96		38 - 134								

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

Lab Sample ID: MB 570-684016/1-A

Matrix: Water

Analysis Batch: 686665

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 684016

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<25		25	ug/L		01/19/26 10:29	01/24/26 20:24	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		01/19/26 10:29	01/24/26 20:24	1
C8-C18	<25		25	ug/L		01/19/26 10:29	01/24/26 20:24	1

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QC Sample Results

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

Job ID: 380-192677-1
SDG: Weekly: Halawa Well P1

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	123		60 - 130	01/19/26 10:29	01/24/26 20:24	1

Lab Sample ID: LCS 570-684016/2-A
Matrix: Water
Analysis Batch: 686665

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 684016

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
C10-C28	1600	1560		ug/L		97	56 - 127

Surrogate	LCS %Recovery	LCS Qualifier	Limits
n-Octacosane (Surr)	124		60 - 130

Lab Sample ID: LCSD 570-684016/3-A
Matrix: Water
Analysis Batch: 686665

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 684016

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28	1600	1670		ug/L		104	56 - 127	7	23

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

Lab Sample ID: MRL 570-684016/4-A
Matrix: Water
Analysis Batch: 686785

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 684016

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
C10-C28	0.0200	0.0232	J	mg/L		116	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
n-Octacosane (Surr)	120		60 - 130

Lab Sample ID: 380-192922-A-1-A MS
Matrix: Water
Analysis Batch: 686665

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 684016

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
C10-C28	<26		1650	1600		ug/L		97	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
n-Octacosane (Surr)	120		60 - 130

Lab Sample ID: 380-192922-A-1-B MSD
Matrix: Water
Analysis Batch: 686665

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 684016

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28	<26		1640	1720		ug/L		105	70 - 130	7	20

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QC Sample Results

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

Job ID: 380-192677-1
SDG: Weekly: Halawa Well P1

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

Lab Sample ID: 380-192922-A-1-B MSD
Matrix: Water
Analysis Batch: 686665

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 684016

Surrogate	MSD		Limits
	%Recovery	Qualifier	
<i>n</i> -Octacosane (Surr)	133	S1+	60 - 130

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QC Association Summary

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

Job ID: 380-192677-1
SDG: Weekly: Halawa Well P1

GC/MS Semi VOA

Prep Batch: 199062

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-192677-1	HALAWA WELL P1	Total/NA	Water	525.2	
MB 380-199062/21-A	Method Blank	Total/NA	Water	525.2	
LCS 380-199062/23-A	Lab Control Sample	Total/NA	Water	525.2	
MRL 380-199062/22-A	Lab Control Sample	Total/NA	Water	525.2	
380-192710-U-1-A MS	Matrix Spike	Total/NA	Water	525.2	
380-192710-V-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	525.2	

Analysis Batch: 199342

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-192677-1	HALAWA WELL P1	Total/NA	Water	525.2	199062
MB 380-199062/21-A	Method Blank	Total/NA	Water	525.2	199062
LCS 380-199062/23-A	Lab Control Sample	Total/NA	Water	525.2	199062
MRL 380-199062/22-A	Lab Control Sample	Total/NA	Water	525.2	199062
380-192710-U-1-A MS	Matrix Spike	Total/NA	Water	525.2	199062
380-192710-V-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	525.2	199062

Prep Batch: 684318

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-192677-1	HALAWA WELL P1	Total/NA	Water	625.1	
MB 570-684318/1-A	Method Blank	Total/NA	Water	625.1	
LCS 570-684318/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 570-684318/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	
380-192972-A-1-A MS	Matrix Spike	Total/NA	Water	625.1	
380-192972-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	625.1	

Analysis Batch: 687438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-684318/1-A	Method Blank	Total/NA	Water	625.1 SIM	684318
LCS 570-684318/2-A	Lab Control Sample	Total/NA	Water	625.1 SIM	684318
LCSD 570-684318/3-A	Lab Control Sample Dup	Total/NA	Water	625.1 SIM	684318
380-192972-A-1-A MS	Matrix Spike	Total/NA	Water	625.1 SIM	684318
380-192972-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	625.1 SIM	684318

Analysis Batch: 688099

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-192677-1	HALAWA WELL P1	Total/NA	Water	625.1 SIM	684318

Analysis Batch: 688721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-192677-1	HALAWA WELL P1	Total/NA	Water	625.1	684318
MB 570-684318/1-A	Method Blank	Total/NA	Water	625.1	684318

GC VOA

Analysis Batch: 683659

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-192677-1	HALAWA WELL P1	Total/NA	Water	8015B GRO LL	
380-192677-2	TB: HALAWA WELL P1	Total/NA	Water	8015B GRO LL	
MB 570-683659/5	Method Blank	Total/NA	Water	8015B GRO LL	
LCS 570-683659/3	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-683659/4	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: 380-192677-1
SDG: Weekly: Halawa Well P1

GC VOA (Continued)

Analysis Batch: 683659 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MRL 570-683659/6	Lab Control Sample	Total/NA	Water	8015B GRO LL	
380-192922-C-1 MS	Matrix Spike	Total/NA	Water	8015B GRO LL	
380-192922-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8015B GRO LL	

GC Semi VOA

Prep Batch: 684016

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-192677-1 - RA	HALAWA WELL P1	Total/NA	Water	3510C	
MB 570-684016/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-684016/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-684016/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-684016/4-A	Lab Control Sample	Total/NA	Water	3510C	
380-192922-A-1-A MS	Matrix Spike	Total/NA	Water	3510C	
380-192922-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

Analysis Batch: 686665

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-684016/1-A	Method Blank	Total/NA	Water	8015B	684016
LCS 570-684016/2-A	Lab Control Sample	Total/NA	Water	8015B	684016
LCSD 570-684016/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	684016
380-192922-A-1-A MS	Matrix Spike	Total/NA	Water	8015B	684016
380-192922-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	8015B	684016

Analysis Batch: 686785

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-192677-1 - RA	HALAWA WELL P1	Total/NA	Water	8015B	684016
MRL 570-684016/4-A	Lab Control Sample	Total/NA	Water	8015B	684016

Lab Chronicle

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

Job ID: 380-192677-1
SDG: Weekly: Halawa Well P1

Client Sample ID: HALAWA WELL P1

Lab Sample ID: 380-192677-1

Date Collected: 01/13/26 11:50

Matrix: Water

Date Received: 01/15/26 09:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			199062	IQ42	EA POM	01/19/26 14:33
Total/NA	Analysis	525.2		1	199342	Q8LA	EA POM	01/20/26 16:39
Total/NA	Prep	625.1			684318	H1SH	EET CAL 4	01/20/26 06:00
Total/NA	Analysis	625.1		1	688721	J7WE	EET CAL 4	01/29/26 20:11
Total/NA	Prep	625.1			684318	H1SH	EET CAL 4	01/20/26 06:00
Total/NA	Analysis	625.1 SIM		1	688099	CG	EET CAL 4	01/28/26 14:29
Total/NA	Analysis	8015B GRO LL		1	683659	YD9V	EET CAL 4	01/17/26 14:52
Total/NA	Prep	3510C	RA		684016	TVD6	EET CAL 4	01/19/26 10:30
Total/NA	Analysis	8015B	RA	1	686785	H6FE	EET CAL 4	01/25/26 16:29

Client Sample ID: TB: HALAWA WELL P1

Lab Sample ID: 380-192677-2

Date Collected: 01/13/26 11:50

Matrix: Water

Date Received: 01/15/26 09:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	683659	YD9V	EET CAL 4	01/17/26 17:58

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: 380-192677-1
SDG: Weekly: Halawa Well P1

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 the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
525.2	525.2	Water	1-Methylnaphthalene
525.2	525.2	Water	2,4'-DDD
525.2	525.2	Water	2,4'-DDE
525.2	525.2	Water	2,4'-DDT
525.2	525.2	Water	2,4-Dinitrotoluene
525.2	525.2	Water	2,6-Dinitrotoluene
525.2	525.2	Water	2-Methylnaphthalene
525.2	525.2	Water	4,4'-DDD
525.2	525.2	Water	4,4'-DDE
525.2	525.2	Water	4,4' DDT
525.2	525.2	Water	Acetochlor
525.2	525.2	Water	alpha-BHC
525.2	525.2	Water	alpha-Chlordane
525.2	525.2	Water	beta-BHC
525.2	525.2	Water	Chlorobenzilate
525.2	525.2	Water	Chloroneb
525.2	525.2	Water	Chlorothalonil (Draconil, Bravo)
525.2	525.2	Water	Chlorpyrifos
525.2	525.2	Water	delta-BHC
525.2	525.2	Water	Diclorvos (DDVP)
525.2	525.2	Water	Endosulfan I (Alpha)
525.2	525.2	Water	Endosulfan II (Beta)
525.2	525.2	Water	Endosulfan sulfate
525.2	525.2	Water	Endrin aldehyde
525.2	525.2	Water	EPTC
525.2	525.2	Water	gamma-Chlordane
525.2	525.2	Water	Isophorone
525.2	525.2	Water	Malathion
525.2	525.2	Water	Parathion
525.2	525.2	Water	Pendimethalin (Penoxaline)
525.2	525.2	Water	Terbacil
525.2	525.2	Water	Terbutylazine
525.2	525.2	Water	Total Permethrin (mixed isomers)
525.2	525.2	Water	trans-Nonachlor

Laboratory: Eurofins Calscience

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

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

Eurofins Pomona

Accreditation/Certification Summary

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

Job ID: 380-192677-1
SDG: Weekly: Halawa Well P1

Laboratory: Eurofins Calscience (Continued)

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

Authority	Program	Identification Number	Expiration Date
California	State	3082	07-31-26
Kansas	NELAP	E-10420	07-31-26
Nevada	State	CA00111	07-31-26
Oregon	NELAP	4175	02-02-26
USDA	US Federal Programs	525-23-159-97150	06-08-26
Utah	NELAP	CA00111	02-28-26
Washington	State	C916	10-11-26

Method Summary

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

Job ID: 380-192677-1
SDG: Weekly: Halawa Well P1

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: 380-192677-1
SDG: Weekly: Halawa Well P1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
380-192677-1	HALAWA WELL P1	Water	01/13/26 11:50	01/15/26 09:38	Hawaii
380-192677-2	TB: HALAWA WELL P1	Water	01/13/26 11:50	01/15/26 09:38	Hawaii

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Eurofins Eaton Analytical Pomona

941 Corporate Center Drive
Pomona, CA 91768-2642
Phone (926) 386-1100

Chain of Custody Record



Client Information		Sampler: Jason Rakitsky		Lab File: Arada, Rachelle		Center Tracking Note:		COC No: 380-28005-2757.1					
Client Contact: Mr. Kirk Iwanob		Phone: +1 808 748 5940		E-Mail: Rachelle.Arada@eurofins.com		State of Origin:		Page: 1 of 2					
City & County of Honolulu		Due Date Requested:		Analysis Requested		Job #		Preservation Codes:					
Address: 630 South Beretania Street Chemistry Lab		TAT Requested (days):		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		R - NaTheSO4					
City: Honolulu		Compliance Project: A Yes A No		625.1, 625.1_SIM		6016B_GRO_LL - (MOD) GRO		RA - NaTheSO4					
State Zip: HI, 96843		Project #: C20625101 exp 05312023		6016B_DRO_LL_C8 - HNL Range: C10-C14/C24-C38/C8-C18		625.2_PREC - (MOD) 625plus Plus TICs		D - Na2SO3					
Phone: 808-748-5940 (Tel)		Project #: 3800111		637.1_DW_PREC - 637.1 Full List		633 - All Analytes		QA - Na2CO3/NaCl					
Email: kiwanob@hbs.org		SSOWK		Total Number of containers		Special Instructions/Note:		V - Triana					
Project Name: RED-HILL/HBWS Sites Event Desc: RUSH Weekly Red Hill		Sample Identification		Sample Date		Sample Time		Matrix (Swack, Overhaul, etc.)					
Sample ID: Halawa Well P1		13-Jan-2026		150		G		Water					
Sample ID: TB: Halawa Well P1		13-Jan-2026		1		G		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		Received by:		Date/Time:	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:		Cooler Temperature(s) °C and Other Remarks:	
Custody Seal Intact: A Yes A No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		Ver: 04/02/2024		380-192677 COC		QR Code		380-192677 COC	

[illegible]

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-192677-1
SDG Number: Weekly: Halawa Well P1

Login Number: 192677

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.	False	Refer to Job Narrative for details.
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: 380-192677-1
SDG Number: Weekly: Halawa Well P1

Login Number: 192677
List Number: 2
Creator: Szymborski, Jessica

List Source: Eurofins Calscience
List Creation: 01/16/26 06:18 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	0.9/1.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	