

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Erwin Kawata
City & County of Honolulu
630 South Beretania Street
Public Service Bldg. Room 310
Honolulu, Hawaii 96843

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JOB DESCRIPTION

RED-HILL
Weekly: Halawa Wells P1

JOB NUMBER

380-225006-1

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



Authorized for release by
Maria Lopez, Project Manager
Maria.Lopez@et.eurofinsus.com
(626)386-1145

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Definitions/Glossary

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

Job ID: 380-225006-1
SDG: Weekly: Halawa Wells P1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
^3+	Reporting Limit Check Standard is outside acceptance limits, high biased
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA TICs

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

GC Semi VOA

Qualifier	Qualifier Description
^3+	Reporting Limit Check Standard is outside acceptance 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: 380-225006-1

Job ID: 380-225006-1

Eurofins Pomona

Job Narrative 380-225006-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The samples were received on 7/15/2026 10:10 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 3.1°C.

GC/MS Semi VOA

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

Gasoline Range Organics

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

Diesel Range Organics

Method 8015B: The method reporting limit check (MRL) for preparation batch 570-771057 and analytical batch 570-775020 recovered outside control limits for the following analytes: C10-C28. These analytes were biased high in the MRL and were not detected in the associated samples; therefore, the data have been 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: 380-225006-1
SDG: Weekly: Halawa Wells P1

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

Lab Sample ID: 380-225006-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Dieldrin	0.035		0.0098	ug/L	1		525.2	Total/NA
Heptachlor epoxide (isomer B)	0.015		0.0098	ug/L	1		525.2	Total/NA

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

Lab Sample ID: 380-225006-2

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: 380-225006-1
SDG: Weekly: Halawa Wells P1

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

Lab Sample ID: 380-225006-1

Date Collected: 07/13/26 10:23

Matrix: Drinking Water

Date Received: 07/15/26 10:10

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.098		0.098	ug/L		07/20/26 14:24	07/21/26 17:56	1
2,4'-DDD	<0.098		0.098	ug/L		07/20/26 14:24	07/21/26 17:56	1
2,4'-DDE	<0.098		0.098	ug/L		07/20/26 14:24	07/21/26 17:56	1
2,4'-DDT	<0.098		0.098	ug/L		07/20/26 14:24	07/21/26 17:56	1
2,4-Dinitrotoluene	<0.098		0.098	ug/L		07/20/26 14:24	07/21/26 17:56	1
2,6-Dinitrotoluene	<0.098		0.098	ug/L		07/20/26 14:24	07/21/26 17:56	1
2-Methylnaphthalene	<0.098		0.098	ug/L		07/20/26 14:24	07/21/26 17:56	1
4,4'-DDD	<0.098		0.098	ug/L		07/20/26 14:24	07/21/26 17:56	1
4,4'-DDE	<0.098		0.098	ug/L		07/20/26 14:24	07/21/26 17:56	1
4,4'-DDT	<0.098		0.098	ug/L		07/20/26 14:24	07/21/26 17:56	1
Acenaphthene	<0.098		0.098	ug/L		07/20/26 14:24	07/21/26 17:56	1
Acenaphthylene	<0.098		0.098	ug/L		07/20/26 14:24	07/21/26 17:56	1
Acetochlor	<0.098		0.098	ug/L		07/20/26 14:24	07/21/26 17:56	1
Alachlor	<0.049		0.049	ug/L		07/20/26 14:24	07/21/26 17:56	1
alpha-BHC	<0.098		0.098	ug/L		07/20/26 14:24	07/21/26 17:56	1
alpha-Chlordane	<0.049		0.049	ug/L		07/20/26 14:24	07/21/26 17:56	1
Anthracene	<0.020		0.020	ug/L		07/20/26 14:24	07/21/26 17:56	1
Atrazine	<0.049		0.049	ug/L		07/20/26 14:24	07/21/26 17:56	1
Benz(a)anthracene	<0.049		0.049	ug/L		07/20/26 14:24	07/21/26 17:56	1
Benzo[a]pyrene	<0.020		0.020	ug/L		07/20/26 14:24	07/21/26 17:56	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		07/20/26 14:24	07/21/26 17:56	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		07/20/26 14:24	07/21/26 17:56	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		07/20/26 14:24	07/21/26 17:56	1
beta-BHC	<0.098		0.098	ug/L		07/20/26 14:24	07/21/26 17:56	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		07/20/26 14:24	07/21/26 17:56	1
Bromacil	<0.098		0.098	ug/L		07/20/26 14:24	07/21/26 17:56	1
Butachlor	<0.049		0.049	ug/L		07/20/26 14:24	07/21/26 17:56	1
Butylbenzylphthalate	<0.49		0.49	ug/L		07/20/26 14:24	07/21/26 17:56	1
Chlorobenzilate	<0.098		0.098	ug/L		07/20/26 14:24	07/21/26 17:56	1
Chloroneb	<0.098		0.098	ug/L		07/20/26 14:24	07/21/26 17:56	1
Chlorothalonil (Draconil, Bravo)	<0.098		0.098	ug/L		07/20/26 14:24	07/21/26 17:56	1
Chlorpyrifos	<0.049		0.049	ug/L		07/20/26 14:24	07/21/26 17:56	1
Chrysene	<0.020		0.020	ug/L		07/20/26 14:24	07/21/26 17:56	1
delta-BHC	<0.098		0.098	ug/L		07/20/26 14:24	07/21/26 17:56	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		07/20/26 14:24	07/21/26 17:56	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		07/20/26 14:24	07/21/26 17:56	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		07/20/26 14:24	07/21/26 17:56	1
Dieldrin	0.035		0.0098	ug/L		07/20/26 14:24	07/21/26 17:56	1
Diethylphthalate	<0.49		0.49	ug/L		07/20/26 14:24	07/21/26 17:56	1
Dimethylphthalate	<0.49		0.49	ug/L		07/20/26 14:24	07/21/26 17:56	1
Di-n-butyl phthalate	<0.98		0.98	ug/L		07/20/26 14:24	07/21/26 17:56	1
Di-n-octyl phthalate	<0.098		0.098	ug/L		07/20/26 14:24	07/21/26 17:56	1
Endosulfan I (Alpha)	<0.098		0.098	ug/L		07/20/26 14:24	07/21/26 17:56	1
Endosulfan II (Beta)	<0.098		0.098	ug/L		07/20/26 14:24	07/21/26 17:56	1
Endosulfan sulfate	<0.098		0.098	ug/L		07/20/26 14:24	07/21/26 17:56	1
Endrin	<0.0098	^3+	0.0098	ug/L		07/20/26 14:24	07/21/26 17:56	1
Endrin aldehyde	<0.098		0.098	ug/L		07/20/26 14:24	07/21/26 17:56	1
EPTC	<0.098		0.098	ug/L		07/20/26 14:24	07/21/26 17:56	1
Fluoranthene	<0.098		0.098	ug/L		07/20/26 14:24	07/21/26 17:56	1

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Client Sample Results

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

Job ID: 380-225006-1
SDG: Weekly: Halawa Wells P1

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

Lab Sample ID: 380-225006-1

Date Collected: 07/13/26 10:23

Matrix: Drinking Water

Date Received: 07/15/26 10:10

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		07/20/26 14:24	07/21/26 17:56	1
gamma-Chlordane	<0.049		0.049	ug/L		07/20/26 14:24	07/21/26 17:56	1
Heptachlor	<0.0098		0.0098	ug/L		07/20/26 14:24	07/21/26 17:56	1
Heptachlor epoxide (isomer B)	0.015		0.0098	ug/L		07/20/26 14:24	07/21/26 17:56	1
Hexachlorobenzene	<0.049		0.049	ug/L		07/20/26 14:24	07/21/26 17:56	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		07/20/26 14:24	07/21/26 17:56	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		07/20/26 14:24	07/21/26 17:56	1
Isophorone	<0.098		0.098	ug/L		07/20/26 14:24	07/21/26 17:56	1
Lindane	<0.0098		0.0098	ug/L		07/20/26 14:24	07/21/26 17:56	1
Malathion	<0.098		0.098	ug/L		07/20/26 14:24	07/21/26 17:56	1
Methoxychlor	<0.049		0.049	ug/L		07/20/26 14:24	07/21/26 17:56	1
Metolachlor	<0.049		0.049	ug/L		07/20/26 14:24	07/21/26 17:56	1
Molinate	<0.098		0.098	ug/L		07/20/26 14:24	07/21/26 17:56	1
Naphthalene	<0.098		0.098	ug/L		07/20/26 14:24	07/21/26 17:56	1
Parathion	<0.098		0.098	ug/L		07/20/26 14:24	07/21/26 17:56	1
Pendimethalin (Penoxaline)	<0.098		0.098	ug/L		07/20/26 14:24	07/21/26 17:56	1
Phenanthrene	<0.039		0.039	ug/L		07/20/26 14:24	07/21/26 17:56	1
Propachlor	<0.049		0.049	ug/L		07/20/26 14:24	07/21/26 17:56	1
Pyrene	<0.049		0.049	ug/L		07/20/26 14:24	07/21/26 17:56	1
Simazine	<0.049		0.049	ug/L		07/20/26 14:24	07/21/26 17:56	1
Terbacil	<0.098		0.098	ug/L		07/20/26 14:24	07/21/26 17:56	1
Terbutylazine	<0.098		0.098	ug/L		07/20/26 14:24	07/21/26 17:56	1
Thiobencarb	<0.098		0.098	ug/L		07/20/26 14:24	07/21/26 17:56	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		07/20/26 14:24	07/21/26 17:56	1
trans-Nonachlor	<0.049		0.049	ug/L		07/20/26 14:24	07/21/26 17:56	1
Trifluralin	<0.098		0.098	ug/L		07/20/26 14:24	07/21/26 17:56	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	07/20/26 14:24	07/21/26 17:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	100		70 - 130	07/20/26 14:24	07/21/26 17:56	1
Perylene-d12	97		70 - 130	07/20/26 14:24	07/21/26 17:56	1
Triphenylphosphate	108		70 - 130	07/20/26 14:24	07/21/26 17:56	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		07/19/26 07:42	07/23/26 06:05	1
2-Methylnaphthalene	<0.19		0.19	ug/L		07/19/26 07:42	07/23/26 06:05	1
Acenaphthene	<0.19		0.19	ug/L		07/19/26 07:42	07/23/26 06:05	1
Acenaphthylene	<0.19		0.19	ug/L		07/19/26 07:42	07/23/26 06:05	1
Anthracene	<0.19		0.19	ug/L		07/19/26 07:42	07/23/26 06:05	1
Benzo[a]anthracene	<0.19		0.19	ug/L		07/19/26 07:42	07/23/26 06:05	1
Benzo[a]pyrene	<0.19		0.19	ug/L		07/19/26 07:42	07/23/26 06:05	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		07/19/26 07:42	07/23/26 06:05	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		07/19/26 07:42	07/23/26 06:05	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		07/19/26 07:42	07/23/26 06:05	1
Chrysene	<0.19		0.19	ug/L		07/19/26 07:42	07/23/26 06:05	1
Dibenz(a,h)anthracene	<0.19		0.19	ug/L		07/19/26 07:42	07/23/26 06:05	1
Fluoranthene	<0.19		0.19	ug/L		07/19/26 07:42	07/23/26 06:05	1

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Client Sample Results

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

Job ID: 380-225006-1
SDG: Weekly: Halawa Wells P1

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

Lab Sample ID: 380-225006-1

Date Collected: 07/13/26 10:23

Matrix: Drinking Water

Date Received: 07/15/26 10:10

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		07/19/26 07:42	07/23/26 06:05	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		07/19/26 07:42	07/23/26 06:05	1
Naphthalene	<0.19		0.19	ug/L		07/19/26 07:42	07/23/26 06:05	1
Phenanthrene	<0.19		0.19	ug/L		07/19/26 07:42	07/23/26 06:05	1
Pyrene	<0.19		0.19	ug/L		07/19/26 07:42	07/23/26 06:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	80		28 - 127	07/19/26 07:42	07/23/26 06:05	1
2-Fluorobiphenyl (Surr)	69		31 - 120	07/19/26 07:42	07/23/26 06:05	1
2-Fluorophenol (Surr)	47		17 - 120	07/19/26 07:42	07/23/26 06:05	1
Nitrobenzene-d5 (Surr)	73		27 - 120	07/19/26 07:42	07/23/26 06:05	1
Phenol-d6 (Surr)	29		10 - 120	07/19/26 07:42	07/23/26 06:05	1
p-Terphenyl-d14 (Surr)	71		45 - 120	07/19/26 07:42	07/23/26 06:05	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	07/19/26 07:42	07/28/26 01:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	45		33 - 139	07/19/26 07:42	07/28/26 01:15	1
2-Fluorobiphenyl (Surr)	69		33 - 126	07/19/26 07:42	07/28/26 01:15	1
2-Fluorophenol (Surr)	45		12 - 120	07/19/26 07:42	07/28/26 01:15	1
Nitrobenzene-d5 (Surr)	72		36 - 120	07/19/26 07:42	07/28/26 01:15	1
Phenol-d6 (Surr)	27		10 - 120	07/19/26 07:42	07/28/26 01:15	1
p-Terphenyl-d14 (Surr)	68		47 - 131	07/19/26 07:42	07/28/26 01:15	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			07/24/26 16:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		38 - 134		07/24/26 16:00	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)	<25		25	ug/L		07/19/26 09:04	07/27/26 21:08	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		07/19/26 09:04	07/27/26 21:08	1
C8-C18	<25		25	ug/L		07/19/26 09:04	07/27/26 21:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	109		60 - 130	07/19/26 09:04	07/27/26 21:08	1

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

Lab Sample ID: 380-225006-2

Date Collected: 07/13/26 10:23

Matrix: Water

Date Received: 07/15/26 10:10

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			07/24/26 19:38	1

Eurofins Pomona

Client Sample Results

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

Job ID: 380-225006-1
SDG: Weekly: Halawa Wells P1

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

Lab Sample ID: 380-225006-2

Date Collected: 07/13/26 10:23

Matrix: Water

Date Received: 07/15/26 10:10

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
4-Bromofluorobenzene (Surr)	103		38 - 134		07/24/26 19:38	1

Action Limit Summary

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

Job ID: 380-225006-1
SDG: Weekly: Halawa Wells P1

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

Lab Sample ID: 380-225006-1

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	<0.020		ug/L	0.2	0.020	525.2	Total/NA
Bis(2-ethylhexyl) phthalate	<0.59		ug/L	6	0.59	525.2	Total/NA
Di(2-ethylhexyl)adipate	<0.59		ug/L	400	0.59	525.2	Total/NA
Endrin	<0.0098	^3+	ug/L	2	0.0098	525.2	Total/NA
Heptachlor	<0.0098		ug/L	0.4	0.0098	525.2	Total/NA
Heptachlor epoxide (isomer B)	0.015		ug/L	0.2	0.0098	525.2	Total/NA
Hexachlorobenzene	<0.049		ug/L	1	0.049	525.2	Total/NA
Hexachlorocyclopentadiene	<0.049		ug/L	50	0.049	525.2	Total/NA
Lindane	<0.0098		ug/L	0.2	0.0098	525.2	Total/NA
Methoxychlor	<0.049		ug/L	40	0.049	525.2	Total/NA
Simazine	<0.049		ug/L	4	0.049	525.2	Total/NA
Benzo[a]pyrene	<0.19		ug/L	0.2	0.19	625.1 SIM	Total/NA

Surrogate Summary

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

Job ID: 380-225006-1
SDG: Weekly: Halawa Wells P1

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)				
380-225006-1	HALAWA WELLS P1 (331-023-WL0	100	97	108				
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)				
380-224993-I-1-A MS	Matrix Spike	102	98	107				
380-225005-I-1-A DU	Duplicate	101	93	106				
LCS 380-240998/23-A	Lab Control Sample	101	100	110				
MB 380-240998/21-A	Method Blank	100	93	109				
MRL 380-240998/22-A	Lab Control Sample	101	97	107				
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)		
380-225006-1	HALAWA WELLS P1 (331-023-WL0	45	69	45	72	27	68		
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 570-771023/1-A	Method Blank	57	78	53	83	31	72		
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: 380-225006-1

SDG: Weekly: Halawa Wells P1

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)
380-225006-1	HALAWA WELLS P1 (331-023-WL0	80	69	47	73	29	71
380-225006-1 MS	HALAWA WELLS P1 (331-023-WL065)	89	80	69	70	41	87
380-225006-1 MSD	HALAWA WELLS P1 (331-023-WL065)	81	76	57	67	38	80

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 570-771023/2-A	Lab Control Sample	89	81	62	73	41	88
LCSD 570-771023/3-A	Lab Control Sample Dup	90	82	64	70	42	93
MB 570-771023/1-A	Method Blank	90	77	56	81	34	77

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)					
380-225006-1	HALAWA WELLS P1 (331-023-WL0	100					
380-225006-1 MS	HALAWA WELLS P1 (331-023-WL065)	100					
380-225006-1 MSD	HALAWA WELLS P1 (331-023-WL065)	102					

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

Surrogate Summary

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

Job ID: 380-225006-1
SDG: Weekly: Halawa Wells 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)
380-225006-2	TB: HALAWA WELLS P1 (331-023-1	103
LCS 570-773807/3	Lab Control Sample	101
LCSD 570-773807/4	Lab Control Sample Dup	99
MB 570-773807/6	Method Blank	99
MRL 570-773807/5	Lab Control Sample	83
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)
380-225006-1	HALAWA WELLS P1 (331-023-WL0	109
380-225006-1 MS	HALAWA WELLS P1 (331-023-WL065)	115
380-225006-1 MSD	HALAWA WELLS P1 (331-023-WL065)	111
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 570-771057/2-A	Lab Control Sample	108
LCSD 570-771057/3-A	Lab Control Sample Dup	110
MB 570-771057/1-A	Method Blank	110
MRL 570-771057/4-A	Lab Control Sample	115
Surrogate Legend		
OTCSN = n-Octacosane (Surr)		

QC Sample Results

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

Job ID: 380-225006-1
SDG: Weekly: Halawa Wells P1

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

Lab Sample ID: MB 380-240998/21-A
Matrix: Water
Analysis Batch: 241306

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 240998

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.098		0.098	ug/L		07/20/26 14:24	07/21/26 13:52	1
2,4'-DDD	<0.098		0.098	ug/L		07/20/26 14:24	07/21/26 13:52	1
2,4'-DDE	<0.098		0.098	ug/L		07/20/26 14:24	07/21/26 13:52	1
2,4'-DDT	<0.098		0.098	ug/L		07/20/26 14:24	07/21/26 13:52	1
2,4-Dinitrotoluene	<0.098		0.098	ug/L		07/20/26 14:24	07/21/26 13:52	1
2,6-Dinitrotoluene	<0.098		0.098	ug/L		07/20/26 14:24	07/21/26 13:52	1
2-Methylnaphthalene	<0.098		0.098	ug/L		07/20/26 14:24	07/21/26 13:52	1
4,4'-DDD	<0.098		0.098	ug/L		07/20/26 14:24	07/21/26 13:52	1
4,4'-DDE	<0.098		0.098	ug/L		07/20/26 14:24	07/21/26 13:52	1
4,4'-DDT	<0.098		0.098	ug/L		07/20/26 14:24	07/21/26 13:52	1
Acenaphthene	<0.098		0.098	ug/L		07/20/26 14:24	07/21/26 13:52	1
Acenaphthylene	<0.098		0.098	ug/L		07/20/26 14:24	07/21/26 13:52	1
Acetochlor	<0.098		0.098	ug/L		07/20/26 14:24	07/21/26 13:52	1
Alachlor	<0.049		0.049	ug/L		07/20/26 14:24	07/21/26 13:52	1
alpha-BHC	<0.098		0.098	ug/L		07/20/26 14:24	07/21/26 13:52	1
alpha-Chlordane	<0.049		0.049	ug/L		07/20/26 14:24	07/21/26 13:52	1
Anthracene	<0.020		0.020	ug/L		07/20/26 14:24	07/21/26 13:52	1
Atrazine	<0.049		0.049	ug/L		07/20/26 14:24	07/21/26 13:52	1
Benz(a)anthracene	<0.049		0.049	ug/L		07/20/26 14:24	07/21/26 13:52	1
Benzo[a]pyrene	<0.020		0.020	ug/L		07/20/26 14:24	07/21/26 13:52	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		07/20/26 14:24	07/21/26 13:52	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		07/20/26 14:24	07/21/26 13:52	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		07/20/26 14:24	07/21/26 13:52	1
beta-BHC	<0.098		0.098	ug/L		07/20/26 14:24	07/21/26 13:52	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		07/20/26 14:24	07/21/26 13:52	1
Bromacil	<0.098		0.098	ug/L		07/20/26 14:24	07/21/26 13:52	1
Butachlor	<0.049		0.049	ug/L		07/20/26 14:24	07/21/26 13:52	1
Butylbenzylphthalate	<0.49		0.49	ug/L		07/20/26 14:24	07/21/26 13:52	1
Chlorobenzilate	<0.098		0.098	ug/L		07/20/26 14:24	07/21/26 13:52	1
Chloroneb	<0.098		0.098	ug/L		07/20/26 14:24	07/21/26 13:52	1
Chlorothalonil (Draconil, Bravo)	<0.098		0.098	ug/L		07/20/26 14:24	07/21/26 13:52	1
Chlorpyrifos	<0.049		0.049	ug/L		07/20/26 14:24	07/21/26 13:52	1
Chrysene	<0.020		0.020	ug/L		07/20/26 14:24	07/21/26 13:52	1
delta-BHC	<0.098		0.098	ug/L		07/20/26 14:24	07/21/26 13:52	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		07/20/26 14:24	07/21/26 13:52	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		07/20/26 14:24	07/21/26 13:52	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		07/20/26 14:24	07/21/26 13:52	1
Dieldrin	<0.0098		0.0098	ug/L		07/20/26 14:24	07/21/26 13:52	1
Diethylphthalate	<0.49		0.49	ug/L		07/20/26 14:24	07/21/26 13:52	1
Dimethylphthalate	<0.49		0.49	ug/L		07/20/26 14:24	07/21/26 13:52	1
Di-n-butyl phthalate	<0.98		0.98	ug/L		07/20/26 14:24	07/21/26 13:52	1
Di-n-octyl phthalate	<0.098		0.098	ug/L		07/20/26 14:24	07/21/26 13:52	1
Endosulfan I (Alpha)	<0.098		0.098	ug/L		07/20/26 14:24	07/21/26 13:52	1
Endosulfan II (Beta)	<0.098		0.098	ug/L		07/20/26 14:24	07/21/26 13:52	1
Endosulfan sulfate	<0.098		0.098	ug/L		07/20/26 14:24	07/21/26 13:52	1
Endrin	<0.0098	^3+	0.0098	ug/L		07/20/26 14:24	07/21/26 13:52	1
Endrin aldehyde	<0.098		0.098	ug/L		07/20/26 14:24	07/21/26 13:52	1
EPTC	<0.098		0.098	ug/L		07/20/26 14:24	07/21/26 13:52	1

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QC Sample Results

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

Job ID: 380-225006-1
SDG: Weekly: Halawa Wells P1

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

Lab Sample ID: MB 380-240998/21-A

Matrix: Water

Analysis Batch: 241306

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 240998

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.098		0.098	ug/L		07/20/26 14:24	07/21/26 13:52	1
Fluorene	<0.049		0.049	ug/L		07/20/26 14:24	07/21/26 13:52	1
gamma-Chlordane	<0.049		0.049	ug/L		07/20/26 14:24	07/21/26 13:52	1
Heptachlor	<0.0098		0.0098	ug/L		07/20/26 14:24	07/21/26 13:52	1
Heptachlor epoxide (isomer B)	<0.0098		0.0098	ug/L		07/20/26 14:24	07/21/26 13:52	1
Hexachlorobenzene	<0.049		0.049	ug/L		07/20/26 14:24	07/21/26 13:52	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		07/20/26 14:24	07/21/26 13:52	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		07/20/26 14:24	07/21/26 13:52	1
Isophorone	<0.098		0.098	ug/L		07/20/26 14:24	07/21/26 13:52	1
Lindane	<0.0098		0.0098	ug/L		07/20/26 14:24	07/21/26 13:52	1
Malathion	<0.098		0.098	ug/L		07/20/26 14:24	07/21/26 13:52	1
Methoxychlor	<0.049		0.049	ug/L		07/20/26 14:24	07/21/26 13:52	1
Metolachlor	<0.049		0.049	ug/L		07/20/26 14:24	07/21/26 13:52	1
Molinate	<0.098		0.098	ug/L		07/20/26 14:24	07/21/26 13:52	1
Naphthalene	<0.098		0.098	ug/L		07/20/26 14:24	07/21/26 13:52	1
Parathion	<0.098		0.098	ug/L		07/20/26 14:24	07/21/26 13:52	1
Pendimethalin (Penoxaline)	<0.098		0.098	ug/L		07/20/26 14:24	07/21/26 13:52	1
Phenanthrene	<0.039		0.039	ug/L		07/20/26 14:24	07/21/26 13:52	1
Propachlor	<0.049		0.049	ug/L		07/20/26 14:24	07/21/26 13:52	1
Pyrene	<0.049		0.049	ug/L		07/20/26 14:24	07/21/26 13:52	1
Simazine	<0.049		0.049	ug/L		07/20/26 14:24	07/21/26 13:52	1
Terbacil	<0.098		0.098	ug/L		07/20/26 14:24	07/21/26 13:52	1
Terbutylazine	<0.098		0.098	ug/L		07/20/26 14:24	07/21/26 13:52	1
Thiobencarb	<0.098		0.098	ug/L		07/20/26 14:24	07/21/26 13:52	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		07/20/26 14:24	07/21/26 13:52	1
trans-Nonachlor	<0.049		0.049	ug/L		07/20/26 14:24	07/21/26 13:52	1
Trifluralin	<0.098		0.098	ug/L		07/20/26 14:24	07/21/26 13:52	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Undecane	4.49	T J N	ug/L		3.23	1120-21-4	07/20/26 14:24	07/21/26 13:52	1
Cyclopentasiloxane, decamethyl-	0.556	T J N	ug/L		3.36	541-02-6	07/20/26 14:24	07/21/26 13:52	1
Unknown	1.03	T J	ug/L		3.94	N/A	07/20/26 14:24	07/21/26 13:52	1
Phenol, 2,4-bis(1,1-dimethylethyl)-	1.08	T J N	ug/L		4.75	96-76-4	07/20/26 14:24	07/21/26 13:52	1
Tetradecanoic acid	0.570	T J N	ug/L		6.29	544-63-8	07/20/26 14:24	07/21/26 13:52	1
Hexadecanamide	0.567	T J N	ug/L		7.16	629-54-9	07/20/26 14:24	07/21/26 13:52	1
9-Octadecenamide, (Z)-	5.25	T J N	ug/L		8.05	301-02-0	07/20/26 14:24	07/21/26 13:52	1
9-Octadecenamide, (Z)-	0.852	T J N	ug/L		8.14	301-02-0	07/20/26 14:24	07/21/26 13:52	1
13-Docosenamide, (Z)-	1.07	T J N	ug/L		10.62	112-84-5	07/20/26 14:24	07/21/26 13:52	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	100		70 - 130	07/20/26 14:24	07/21/26 13:52	1
Perylene-d12	93		70 - 130	07/20/26 14:24	07/21/26 13:52	1
Triphenylphosphate	109		70 - 130	07/20/26 14:24	07/21/26 13:52	1

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QC Sample Results

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

Job ID: 380-225006-1
SDG: Weekly: Halawa Wells P1

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

Lab Sample ID: LCS 380-240998/23-A

Matrix: Water

Analysis Batch: 241306

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 240998

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	1.97	2.01		ug/L		102	70 - 130
2,4'-DDD	1.97	2.04		ug/L		104	70 - 130
2,4'-DDE	1.97	2.12		ug/L		108	70 - 130
2,4'-DDT	1.97	2.12		ug/L		108	70 - 130
2,4-Dinitrotoluene	1.97	2.40		ug/L		122	70 - 130
2,6-Dinitrotoluene	1.97	2.30		ug/L		117	70 - 130
2-Methylnaphthalene	1.97	1.98		ug/L		100	70 - 130
4,4'-DDD	1.97	2.07		ug/L		105	70 - 130
4,4'-DDE	1.97	2.01		ug/L		102	70 - 130
4,4'-DDT	1.97	2.24		ug/L		114	70 - 130
Acenaphthene	1.97	1.94		ug/L		99	70 - 130
Acenaphthylene	1.97	1.80		ug/L		91	70 - 130
Acetochlor	1.97	2.15		ug/L		109	70 - 130
Alachlor	1.97	2.10		ug/L		107	70 - 130
alpha-BHC	1.97	2.09		ug/L		106	70 - 130
alpha-Chlordane	1.97	2.04		ug/L		103	70 - 130
Anthracene	1.97	1.86		ug/L		94	70 - 130
Atrazine	1.97	2.21		ug/L		112	70 - 130
Benz(a)anthracene	1.97	2.04		ug/L		103	70 - 130
Benzo[a]pyrene	1.97	1.94		ug/L		98	70 - 130
Benzo[b]fluoranthene	1.97	1.95		ug/L		99	70 - 130
Benzo[g,h,i]perylene	1.97	1.97		ug/L		100	70 - 130
Benzo[k]fluoranthene	1.97	2.03		ug/L		103	70 - 130
beta-BHC	1.97	2.21		ug/L		112	70 - 130
Bis(2-ethylhexyl) phthalate	1.97	1.93		ug/L		98	70 - 130
Bromacil	1.97	2.15		ug/L		109	70 - 130
Butachlor	1.97	2.22		ug/L		113	70 - 130
Butylbenzylphthalate	1.97	2.22		ug/L		113	70 - 130
Chlorobenzilate	1.97	2.19		ug/L		111	70 - 130
Chloroneb	1.97	2.04		ug/L		104	70 - 130
Chlorothalonil (Draconil, Bravo)	1.97	2.18		ug/L		111	70 - 130
Chlorpyrifos	1.97	2.10		ug/L		107	70 - 130
Chrysene	1.97	2.02		ug/L		103	70 - 130
delta-BHC	1.97	2.11		ug/L		107	70 - 130
Di(2-ethylhexyl)adipate	1.97	2.21		ug/L		112	70 - 130
Dibenz(a,h)anthracene	1.97	1.89		ug/L		96	70 - 130
Diclorvos (DDVP)	1.97	2.01		ug/L		102	70 - 130
Dieldrin	1.97	2.03		ug/L		103	70 - 130
Diethylphthalate	1.97	2.20		ug/L		112	70 - 130
Dimethylphthalate	1.97	2.12		ug/L		107	70 - 130
Di-n-butyl phthalate	3.94	4.46		ug/L		113	70 - 130
Di-n-octyl phthalate	1.97	1.91		ug/L		97	70 - 130
Endosulfan I (Alpha)	1.97	1.99		ug/L		101	70 - 130
Endosulfan II (Beta)	1.97	2.07		ug/L		105	70 - 130
Endosulfan sulfate	1.97	2.08		ug/L		105	70 - 130
Endrin	1.97	2.31		ug/L		117	70 - 130
Endrin aldehyde	1.97	2.12		ug/L		108	60 - 130
EPTC	1.97	2.08		ug/L		106	70 - 130

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QC Sample Results

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

Job ID: 380-225006-1
SDG: Weekly: Halawa Wells P1

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

Lab Sample ID: LCS 380-240998/23-A

Matrix: Water

Analysis Batch: 241306

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 240998

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoranthene	1.97	2.06		ug/L		105	70 - 130
Fluorene	1.97	2.05		ug/L		104	70 - 130
gamma-Chlordane	1.97	2.03		ug/L		103	70 - 130
Heptachlor	1.97	2.10		ug/L		107	70 - 130
Heptachlor epoxide (isomer B)	1.97	2.02		ug/L		103	70 - 130
Hexachlorobenzene	1.97	2.03		ug/L		103	70 - 130
Hexachlorocyclopentadiene	1.97	2.00		ug/L		101	70 - 130
Indeno[1,2,3-cd]pyrene	1.97	1.95		ug/L		99	70 - 130
Isophorone	1.97	1.98		ug/L		100	70 - 130
Lindane	1.97	2.17		ug/L		110	70 - 130
Malathion	1.97	2.12		ug/L		108	70 - 130
Methoxychlor	1.97	2.17		ug/L		110	70 - 130
Metolachlor	1.97	2.12		ug/L		108	70 - 130
Molinate	1.97	2.06		ug/L		105	70 - 130
Naphthalene	1.97	1.86		ug/L		95	70 - 130
Parathion	1.97	2.53		ug/L		129	70 - 130
Pendimethalin (Penoxaline)	1.97	2.31		ug/L		117	70 - 130
Phenanthrene	1.97	1.93		ug/L		98	70 - 130
Propachlor	1.97	2.22		ug/L		113	70 - 130
Pyrene	1.97	2.14		ug/L		109	70 - 130
Simazine	1.97	2.17		ug/L		110	70 - 130
Terbacil	1.97	2.37		ug/L		121	70 - 130
Terbutylazine	1.97	2.25		ug/L		114	70 - 130
Thiobencarb	1.97	2.14		ug/L		108	70 - 130
trans-Nonachlor	1.97	1.97		ug/L		100	70 - 130
Trifluralin	1.97	2.18		ug/L		111	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Nitro-m-xylene	101		70 - 130
Perylene-d12	100		70 - 130
Triphenylphosphate	110		70 - 130

Lab Sample ID: MRL 380-240998/22-A

Matrix: Water

Analysis Batch: 241306

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 240998

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	0.0981	0.0988		ug/L		101	50 - 150
2,4'-DDD	0.0981	0.0889	J	ug/L		91	50 - 150
2,4'-DDE	0.0981	0.106		ug/L		108	50 - 150
2,4'-DDT	0.0981	0.111		ug/L		113	50 - 150
2,4-Dinitrotoluene	0.0981	0.121		ug/L		124	50 - 150
2,6-Dinitrotoluene	0.0981	0.123		ug/L		125	50 - 150
2-Methylnaphthalene	0.0981	0.103		ug/L		104	50 - 150
4,4'-DDD	0.0981	0.101		ug/L		103	50 - 150
4,4'-DDE	0.0981	0.0977	J	ug/L		100	50 - 150
4,4'-DDT	0.0981	0.112		ug/L		114	50 - 150
Acenaphthene	0.0981	0.0929	J	ug/L		95	50 - 150

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QC Sample Results

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

Job ID: 380-225006-1
SDG: Weekly: Halawa Wells P1

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

Lab Sample ID: MRL 380-240998/22-A

Matrix: Water

Analysis Batch: 241306

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 240998

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthylene	0.0981	0.0823	J	ug/L		84	50 - 150
Acetochlor	0.0981	0.102		ug/L		104	50 - 150
Alachlor	0.0491	0.0596		ug/L		121	50 - 150
alpha-BHC	0.0981	0.107		ug/L		109	50 - 150
alpha-Chlordane	0.0245	<0.028		ug/L		111	50 - 150
Anthracene	0.0196	0.0212		ug/L		108	50 - 150
Atrazine	0.0491	0.0579		ug/L		118	50 - 150
Benz(a)anthracene	0.0491	0.0513		ug/L		105	50 - 150
Benzo[a]pyrene	0.0196	0.0219		ug/L		112	50 - 150
Benzo[b]fluoranthene	0.0196	0.0223		ug/L		114	50 - 150
Benzo[g,h,i]perylene	0.0491	0.0436	J	ug/L		89	50 - 150
Benzo[k]fluoranthene	0.0196	0.0248		ug/L		126	50 - 150
beta-BHC	0.0981	0.109		ug/L		111	50 - 150
Bis(2-ethylhexyl) phthalate	0.589	0.570	J	ug/L		97	50 - 150
Bromacil	0.0981	0.116		ug/L		118	50 - 150
Butachlor	0.0491	0.0624		ug/L		127	50 - 150
Butylbenzylphthalate	0.491	0.604		ug/L		123	50 - 150
Chlorobenzilate	0.0981	0.114		ug/L		116	50 - 150
Chloroneb	0.0981	0.101		ug/L		103	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0981	0.101		ug/L		103	50 - 150
Chlorpyrifos	0.0491	0.0539		ug/L		110	50 - 150
Chrysene	0.0196	0.0212		ug/L		108	50 - 150
delta-BHC	0.0981	0.105		ug/L		107	50 - 150
Di(2-ethylhexyl)adipate	0.589	0.681		ug/L		116	50 - 150
Dibenz(a,h)anthracene	0.0491	0.0466	J	ug/L		95	50 - 150
Diclorvos (DDVP)	0.0491	0.0534		ug/L		109	50 - 150
Dieldrin	0.00981	0.00992		ug/L		101	50 - 150
Diethylphthalate	0.491	0.555		ug/L		113	50 - 150
Dimethylphthalate	0.491	0.520		ug/L		106	50 - 150
Di-n-butyl phthalate	0.491	0.587	J	ug/L		120	49 - 243
Di-n-octyl phthalate	0.0981	0.0910	J	ug/L		93	50 - 150
Endosulfan I (Alpha)	0.0981	0.115		ug/L		117	50 - 150
Endosulfan II (Beta)	0.0981	0.105		ug/L		107	50 - 150
Endosulfan sulfate	0.0981	0.112		ug/L		114	50 - 150
Endrin	0.00981	0.0151	^3+	ug/L		153	50 - 150
Endrin aldehyde	0.0981	0.118		ug/L		120	50 - 150
EPTC	0.0981	0.100		ug/L		102	50 - 150
Fluoranthene	0.0981	0.101		ug/L		103	50 - 150
Fluorene	0.0491	0.0504		ug/L		103	50 - 150
gamma-Chlordane	0.0245	0.0259	J	ug/L		105	50 - 150
Heptachlor	0.00981	0.0123		ug/L		125	50 - 150
Heptachlor epoxide (isomer B)	0.00981	0.0118		ug/L		120	50 - 150
Hexachlorobenzene	0.0491	0.0512		ug/L		104	50 - 150
Hexachlorocyclopentadiene	0.0491	0.0521		ug/L		106	50 - 150
Indeno[1,2,3-cd]pyrene	0.0491	0.0449	J	ug/L		91	50 - 150
Isophorone	0.0981	0.0974	J	ug/L		99	50 - 150
Lindane	0.00981	0.0111		ug/L		113	50 - 150
Malathion	0.0981	0.0984		ug/L		100	50 - 150
Methoxychlor	0.0491	0.0607		ug/L		124	50 - 150

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QC Sample Results

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

Job ID: 380-225006-1
SDG: Weekly: Halawa Wells P1

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

Lab Sample ID: MRL 380-240998/22-A

Matrix: Water

Analysis Batch: 241306

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 240998

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Metolachlor	0.0491	0.0583		ug/L		119	50 - 150
Molinate	0.0981	0.105		ug/L		107	50 - 150
Naphthalene	0.0981	0.0774	J	ug/L		79	50 - 150
Parathion	0.0981	0.111		ug/L		113	50 - 150
Pendimethalin (Penoxaline)	0.0981	0.120		ug/L		123	50 - 150
Phenanthrene	0.0393	0.0421		ug/L		107	50 - 150
Propachlor	0.0491	0.0559		ug/L		114	50 - 150
Pyrene	0.0491	0.0534		ug/L		109	50 - 150
Simazine	0.0491	0.0599		ug/L		122	50 - 150
Terbacil	0.0981	0.135		ug/L		138	50 - 150
Terbutylazine	0.0981	0.101		ug/L		103	50 - 150
Thiobencarb	0.0981	0.108		ug/L		110	50 - 150
trans-Nonachlor	0.0245	0.0265	J	ug/L		108	50 - 150
Trifluralin	0.0981	0.107		ug/L		109	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
2-Nitro-m-xylene	101		70 - 130
Perylene-d12	97		70 - 130
Triphenylphosphate	107		70 - 130

Lab Sample ID: 380-224993-I-1-A MS

Matrix: Water

Analysis Batch: 241306

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 240998

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.098		1.96	2.04		ug/L		104	70 - 130
2,4'-DDD	<0.098		1.96	2.07		ug/L		106	70 - 130
2,4'-DDE	<0.098		1.96	2.13		ug/L		109	70 - 130
2,4'-DDT	<0.098		1.96	2.15		ug/L		110	70 - 130
2,4-Dinitrotoluene	<0.098		1.96	2.40		ug/L		122	70 - 130
2,6-Dinitrotoluene	<0.098		1.96	2.29		ug/L		117	70 - 130
2-Methylnaphthalene	<0.098		1.96	2.04		ug/L		104	70 - 130
4,4'-DDD	<0.098		1.96	2.07		ug/L		106	70 - 130
4,4'-DDE	<0.098		1.96	2.04		ug/L		104	70 - 130
4,4'-DDT	<0.098		1.96	2.24		ug/L		114	70 - 130
Acenaphthene	<0.098		1.96	1.97		ug/L		100	70 - 130
Acenaphthylene	<0.098		1.96	1.99		ug/L		101	70 - 130
Acetochlor	<0.098		1.96	2.12		ug/L		108	70 - 130
Alachlor	<0.049		1.96	2.09		ug/L		107	70 - 130
alpha-BHC	<0.098		1.96	2.11		ug/L		108	70 - 130
alpha-Chlordane	<0.049		1.96	2.09		ug/L		106	70 - 130
Anthracene	<0.020		1.96	1.50		ug/L		76	70 - 130
Atrazine	<0.049		1.96	2.19		ug/L		112	70 - 130
Benz(a)anthracene	<0.049		1.96	1.97		ug/L		101	70 - 130
Benzo[a]pyrene	<0.020		1.96	1.83		ug/L		93	70 - 130
Benzo[b]fluoranthene	<0.020		1.96	2.06		ug/L		105	70 - 130
Benzo[g,h,i]perylene	<0.049		1.96	1.96		ug/L		100	70 - 130
Benzo[k]fluoranthene	<0.020		1.96	2.01		ug/L		103	70 - 130

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QC Sample Results

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

Job ID: 380-225006-1
SDG: Weekly: Halawa Wells P1

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

Lab Sample ID: 380-224993-I-1-A MS

Matrix: Water

Analysis Batch: 241306

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 240998

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
beta-BHC	<0.098		1.96	2.20		ug/L		112	70 - 130
Bis(2-ethylhexyl) phthalate	<0.59		1.96	2.00		ug/L		102	70 - 130
Bromacil	<0.098		1.96	2.11		ug/L		107	70 - 130
Butachlor	<0.049		1.96	2.21		ug/L		113	70 - 130
Butylbenzylphthalate	<0.49		1.96	2.19		ug/L		112	70 - 130
Chlorobenzilate	<0.098		1.96	2.18		ug/L		111	70 - 130
Chloroneb	<0.098		1.96	2.07		ug/L		105	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.098		1.96	2.14		ug/L		109	70 - 130
Chlorpyrifos	<0.049		1.96	2.12		ug/L		108	70 - 130
Chrysene	<0.020		1.96	2.06		ug/L		105	70 - 130
delta-BHC	<0.098		1.96	2.08		ug/L		106	70 - 130
Di(2-ethylhexyl)adipate	<0.59		1.96	2.25		ug/L		115	70 - 130
Dibenz(a,h)anthracene	<0.049		1.96	1.92		ug/L		98	70 - 130
Diclorvos (DDVP)	<0.049		1.96	2.02		ug/L		103	70 - 130
Dieldrin	0.034		1.96	2.06		ug/L		103	70 - 130
Diethylphthalate	<0.49		1.96	2.17		ug/L		111	70 - 130
Dimethylphthalate	<0.49		1.96	2.09		ug/L		107	70 - 130
Di-n-butyl phthalate	<0.98		3.92	4.52		ug/L		115	70 - 130
Di-n-octyl phthalate	<0.098		1.96	1.96		ug/L		100	70 - 130
Endosulfan I (Alpha)	<0.098		1.96	2.01		ug/L		102	70 - 130
Endosulfan II (Beta)	<0.098		1.96	2.11		ug/L		107	70 - 130
Endosulfan sulfate	<0.098		1.96	2.06		ug/L		105	70 - 130
Endrin	<0.0098	^3+	1.96	2.31		ug/L		118	70 - 130
Endrin aldehyde	<0.098		1.96	1.94		ug/L		99	60 - 130
EPTC	<0.098		1.96	2.10		ug/L		107	70 - 130
Fluoranthene	<0.098		1.96	2.07		ug/L		106	70 - 130
Fluorene	<0.049		1.96	2.08		ug/L		106	70 - 130
gamma-Chlordane	<0.049		1.96	2.05		ug/L		104	70 - 130
Heptachlor	<0.0098		1.96	2.10		ug/L		107	70 - 130
Heptachlor epoxide (isomer B)	<0.0098		1.96	2.03		ug/L		103	70 - 130
Hexachlorobenzene	<0.049		1.96	2.07		ug/L		105	70 - 130
Hexachlorocyclopentadiene	<0.049		1.96	2.06		ug/L		105	70 - 130
Indeno[1,2,3-cd]pyrene	<0.049		1.96	1.96		ug/L		100	70 - 130
Isophorone	<0.098		1.96	1.99		ug/L		102	70 - 130
Lindane	<0.0098		1.96	2.15		ug/L		110	70 - 130
Malathion	<0.098		1.96	2.13		ug/L		109	70 - 130
Methoxychlor	<0.049		1.96	2.26		ug/L		115	70 - 130
Metolachlor	<0.049		1.96	2.11		ug/L		108	70 - 130
Molinate	<0.098		1.96	2.09		ug/L		106	70 - 130
Naphthalene	<0.098		1.96	1.88		ug/L		96	70 - 130
Parathion	<0.098		1.96	2.48		ug/L		127	70 - 130
Pendimethalin (Penoxaline)	<0.098		1.96	2.33		ug/L		119	70 - 130
Phenanthrene	<0.039		1.96	1.97		ug/L		100	70 - 130
Propachlor	<0.049		1.96	2.19		ug/L		112	70 - 130
Pyrene	<0.049		1.96	2.14		ug/L		109	70 - 130
Simazine	<0.049		1.96	2.15		ug/L		109	70 - 130
Terbacil	<0.098		1.96	2.30		ug/L		117	70 - 130
Terbuthylazine	<0.098		1.96	2.22		ug/L		113	70 - 130
Thiobencarb	<0.098		1.96	2.11		ug/L		107	70 - 130

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QC Sample Results

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

Job ID: 380-225006-1
SDG: Weekly: Halawa Wells P1

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

Lab Sample ID: 380-224993-I-1-A MS

Matrix: Water

Analysis Batch: 241306

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 240998

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
trans-Nonachlor	<0.049		1.96	2.01		ug/L		102	70 - 130
Trifluralin	<0.098		1.96	2.20		ug/L		112	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Nitro-m-xylene	102		70 - 130
Perylene-d12	98		70 - 130
Triphenylphosphate	107		70 - 130

Lab Sample ID: 380-225005-I-1-A DU

Matrix: Water

Analysis Batch: 241306

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 240998

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

Eurofins Pomona

QC Sample Results

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

Job ID: 380-225006-1
SDG: Weekly: Halawa Wells P1

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

Lab Sample ID: 380-225005-I-1-A DU

Matrix: Water

Analysis Batch: 241306

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 240998

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Dibenz(a,h)anthracene	<0.049		<0.049		ug/L		NC	20
Diclorvos (DDVP)	<0.049		<0.049		ug/L		NC	20
Dieldrin	<0.0099		<0.0099		ug/L		NC	20
Diethylphthalate	<0.49		<0.49		ug/L		NC	20
Dimethylphthalate	<0.49		<0.49		ug/L		NC	20
Di-n-butyl phthalate	<0.99		<0.99		ug/L		NC	20
Di-n-octyl phthalate	<0.099		<0.099		ug/L		NC	20
Endosulfan I (Alpha)	<0.099		<0.099		ug/L		NC	20
Endosulfan II (Beta)	<0.099		<0.099		ug/L		NC	20
Endosulfan sulfate	<0.099		<0.099		ug/L		NC	20
Endrin	<0.0099	^3+	<0.0099		ug/L		NC	20
Endrin aldehyde	<0.099		<0.099		ug/L		NC	20
EPTC	<0.099		<0.099		ug/L		NC	20
Fluoranthene	<0.099		<0.099		ug/L		NC	20
Fluorene	<0.049		<0.049		ug/L		NC	20
gamma-Chlordane	<0.049		<0.049		ug/L		NC	20
Heptachlor	<0.0099		<0.0099		ug/L		NC	20
Heptachlor epoxide (isomer B)	<0.0099		<0.0099		ug/L		NC	20
Hexachlorobenzene	<0.049		<0.049		ug/L		NC	20
Hexachlorocyclopentadiene	<0.049		<0.049		ug/L		NC	20
Indeno[1,2,3-cd]pyrene	<0.049		<0.049		ug/L		NC	20
Isophorone	<0.099		<0.099		ug/L		NC	20
Lindane	<0.0099		<0.0099		ug/L		NC	20
Malathion	<0.099		<0.099		ug/L		NC	20
Methoxychlor	<0.049		<0.049		ug/L		NC	20
Metolachlor	<0.049		<0.049		ug/L		NC	20
Molinate	<0.099		<0.099		ug/L		NC	20
Naphthalene	<0.099		<0.099		ug/L		NC	20
Parathion	<0.099		<0.099		ug/L		NC	20
Pendimethalin (Penoxaline)	<0.099		<0.099		ug/L		NC	20
Phenanthrene	<0.040		<0.039		ug/L		NC	20
Propachlor	<0.049		<0.049		ug/L		NC	20
Pyrene	<0.049		<0.049		ug/L		NC	20
Simazine	<0.049		<0.049		ug/L		NC	20
Terbacil	<0.099		<0.099		ug/L		NC	20
Terbutylazine	<0.099		<0.099		ug/L		NC	20
Thiobencarb	<0.099		<0.099		ug/L		NC	20
Total Permethrin (mixed isomers)	<0.20		<0.20		ug/L		NC	20
trans-Nonachlor	<0.049		<0.049		ug/L		NC	20
Trifluralin	<0.099		<0.099		ug/L		NC	20

Surrogate	%Recovery	DU Qualifier	Limits
2-Nitro-m-xylene	101		70 - 130
Perylene-d12	93		70 - 130
Triphenylphosphate	106		70 - 130

QC Sample Results

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

Job ID: 380-225006-1
SDG: Weekly: Halawa Wells P1

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

Lab Sample ID: MB 570-771023/1-A

Matrix: Water

Analysis Batch: 775065

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 771023

<i>Tentatively Identified Compound</i>	<i>Est. Result</i>	<i>Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>RT</i>	<i>CAS No.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Tentatively Identified Compound</i>	<i>None</i>		<i>ug/L</i>			<i>N/A</i>	<i>07/19/26 07:42</i>	<i>07/27/26 20:49</i>	<i>1</i>
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
2,4,6-Tribromophenol (Surr)	57		33 - 139				07/19/26 07:42	07/27/26 20:49	1
2-Fluorobiphenyl (Surr)	78		33 - 126				07/19/26 07:42	07/27/26 20:49	1
2-Fluorophenol (Surr)	53		12 - 120				07/19/26 07:42	07/27/26 20:49	1
Nitrobenzene-d5 (Surr)	83		36 - 120				07/19/26 07:42	07/27/26 20:49	1
Phenol-d6 (Surr)	31		10 - 120				07/19/26 07:42	07/27/26 20:49	1
p-Terphenyl-d14 (Surr)	72		47 - 131				07/19/26 07:42	07/27/26 20:49	1

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

Lab Sample ID: MB 570-771023/1-A

Matrix: Water

Analysis Batch: 771785

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 771023

<i>Analyte</i>	<i>Result</i>	<i>Qualifier</i>	<i>RL</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1-Methylnaphthalene	<0.20		0.20	ug/L		07/19/26 07:42	07/21/26 07:03	1
2-Methylnaphthalene	<0.20		0.20	ug/L		07/19/26 07:42	07/21/26 07:03	1
Acenaphthene	<0.20		0.20	ug/L		07/19/26 07:42	07/21/26 07:03	1
Acenaphthylene	<0.20		0.20	ug/L		07/19/26 07:42	07/21/26 07:03	1
Anthracene	<0.20		0.20	ug/L		07/19/26 07:42	07/21/26 07:03	1
Benzo[a]anthracene	<0.20		0.20	ug/L		07/19/26 07:42	07/21/26 07:03	1
Benzo[a]pyrene	<0.20		0.20	ug/L		07/19/26 07:42	07/21/26 07:03	1
Benzo[b]fluoranthene	<0.20		0.20	ug/L		07/19/26 07:42	07/21/26 07:03	1
Benzo[g,h,i]perylene	<0.20		0.20	ug/L		07/19/26 07:42	07/21/26 07:03	1
Benzo[k]fluoranthene	<0.20		0.20	ug/L		07/19/26 07:42	07/21/26 07:03	1
Chrysene	<0.20		0.20	ug/L		07/19/26 07:42	07/21/26 07:03	1
Dibenz(a,h)anthracene	<0.20		0.20	ug/L		07/19/26 07:42	07/21/26 07:03	1
Fluoranthene	<0.20		0.20	ug/L		07/19/26 07:42	07/21/26 07:03	1
Fluorene	<0.20		0.20	ug/L		07/19/26 07:42	07/21/26 07:03	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20	ug/L		07/19/26 07:42	07/21/26 07:03	1
Naphthalene	<0.20		0.20	ug/L		07/19/26 07:42	07/21/26 07:03	1
Phenanthrene	<0.20		0.20	ug/L		07/19/26 07:42	07/21/26 07:03	1
Pyrene	<0.20		0.20	ug/L		07/19/26 07:42	07/21/26 07:03	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
2,4,6-Tribromophenol (Surr)	90		28 - 127			07/19/26 07:42	07/21/26 07:03	1
2-Fluorobiphenyl (Surr)	77		31 - 120			07/19/26 07:42	07/21/26 07:03	1
2-Fluorophenol (Surr)	56		17 - 120			07/19/26 07:42	07/21/26 07:03	1
Nitrobenzene-d5 (Surr)	81		27 - 120			07/19/26 07:42	07/21/26 07:03	1
Phenol-d6 (Surr)	34		10 - 120			07/19/26 07:42	07/21/26 07:03	1
p-Terphenyl-d14 (Surr)	77		45 - 120			07/19/26 07:42	07/21/26 07:03	1

QC Sample Results

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

Job ID: 380-225006-1
SDG: Weekly: Halawa Wells P1

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

Lab Sample ID: LCS 570-771023/2-A

Matrix: Water

Analysis Batch: 771785

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 771023

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	20.0	14.7		ug/L		73	47 - 120
2-Methylnaphthalene	20.0	13.1		ug/L		65	43 - 120
Acenaphthene	20.0	16.4		ug/L		82	60 - 132
Acenaphthylene	20.0	16.3		ug/L		81	54 - 126
Anthracene	20.0	16.1		ug/L		81	43 - 120
Benzo[a]anthracene	20.0	17.8		ug/L		89	42 - 133
Benzo[a]pyrene	20.0	17.9		ug/L		90	32 - 148
Benzo[b]fluoranthene	20.0	17.3		ug/L		86	42 - 140
Benzo[g,h,i]perylene	20.0	16.7		ug/L		83	1 - 195
Benzo[k]fluoranthene	20.0	16.2		ug/L		81	25 - 146
Chrysene	20.0	16.8		ug/L		84	44 - 140
Dibenz(a,h)anthracene	20.0	17.1		ug/L		86	1 - 200
Fluoranthene	20.0	17.1		ug/L		85	43 - 121
Fluorene	20.0	17.4		ug/L		87	70 - 120
Indeno[1,2,3-cd]pyrene	20.0	16.6		ug/L		83	1 - 151
Naphthalene	20.0	13.3		ug/L		66	36 - 120
Phenanthrene	20.0	16.8		ug/L		84	65 - 120
Pyrene	20.0	17.8		ug/L		89	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	89		28 - 127
2-Fluorobiphenyl (Surr)	81		31 - 120
2-Fluorophenol (Surr)	62		17 - 120
Nitrobenzene-d5 (Surr)	73		27 - 120
Phenol-d6 (Surr)	41		10 - 120
p-Terphenyl-d14 (Surr)	88		45 - 120

Lab Sample ID: LCSD 570-771023/3-A

Matrix: Water

Analysis Batch: 771785

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 771023

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	20.0	14.3		ug/L		71	47 - 120	3	20
2-Methylnaphthalene	20.0	12.9		ug/L		64	43 - 120	2	20
Acenaphthene	20.0	16.8		ug/L		84	60 - 132	3	29
Acenaphthylene	20.0	16.6		ug/L		83	54 - 126	2	45
Anthracene	20.0	16.4		ug/L		82	43 - 120	2	40
Benzo[a]anthracene	20.0	18.6		ug/L		93	42 - 133	4	32
Benzo[a]pyrene	20.0	18.2		ug/L		91	32 - 148	2	43
Benzo[b]fluoranthene	20.0	17.3		ug/L		87	42 - 140	0	43
Benzo[g,h,i]perylene	20.0	16.8		ug/L		84	1 - 195	1	61
Benzo[k]fluoranthene	20.0	17.4		ug/L		87	25 - 146	7	38
Chrysene	20.0	17.5		ug/L		88	44 - 140	4	53
Dibenz(a,h)anthracene	20.0	17.5		ug/L		87	1 - 200	2	75
Fluoranthene	20.0	17.3		ug/L		87	43 - 121	2	40
Fluorene	20.0	18.1		ug/L		90	70 - 120	4	23
Indeno[1,2,3-cd]pyrene	20.0	17.0		ug/L		85	1 - 151	2	60
Naphthalene	20.0	13.1		ug/L		66	36 - 120	1	39

Eurofins Pomona

QC Sample Results

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

Job ID: 380-225006-1
SDG: Weekly: Halawa Wells P1

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

Lab Sample ID: LCSD 570-771023/3-A

Matrix: Water

Analysis Batch: 771785

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 771023

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenanthrene	20.0	17.1		ug/L		85	65 - 120	2	24
Pyrene	20.0	18.7		ug/L		93	70 - 120	5	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	90		28 - 127
2-Fluorobiphenyl (Surr)	82		31 - 120
2-Fluorophenol (Surr)	64		17 - 120
Nitrobenzene-d5 (Surr)	70		27 - 120
Phenol-d6 (Surr)	42		10 - 120
p-Terphenyl-d14 (Surr)	93		45 - 120

Lab Sample ID: 380-225006-1 MS

Matrix: Drinking Water

Analysis Batch: 772960

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

Prep Type: Total/NA

Prep Batch: 771023

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.19		19.4	14.4		ug/L		74	36 - 120
2-Methylnaphthalene	<0.19		19.4	13.2		ug/L		68	32 - 124
Acenaphthene	<0.19		19.4	16.6		ug/L		86	47 - 145
Acenaphthylene	<0.19		19.4	16.1		ug/L		83	33 - 145
Anthracene	<0.19		19.4	15.9		ug/L		82	27 - 133
Benzo[a]anthracene	<0.19		19.4	17.7		ug/L		91	33 - 143
Benzo[a]pyrene	<0.19		19.4	17.7		ug/L		91	17 - 163
Benzo[b]fluoranthene	<0.19		19.4	16.4		ug/L		84	24 - 159
Benzo[g,h,i]perylene	<0.19		19.4	16.5		ug/L		85	1 - 219
Benzo[k]fluoranthene	<0.19		19.4	16.7		ug/L		86	11 - 162
Chrysene	<0.19		19.4	16.6		ug/L		85	17 - 168
Dibenz(a,h)anthracene	<0.19		19.4	16.6		ug/L		86	1 - 227
Fluoranthene	<0.19		19.4	17.1		ug/L		88	26 - 137
Fluorene	<0.19		19.4	17.9		ug/L		92	59 - 121
Indeno[1,2,3-cd]pyrene	<0.19		19.4	16.3		ug/L		84	1 - 171
Naphthalene	<0.19		19.4	13.3		ug/L		69	21 - 133
Phenanthrene	<0.19		19.4	16.6		ug/L		86	54 - 120
Pyrene	<0.19		19.4	17.7		ug/L		92	52 - 120

Surrogate	MS %Recovery	MS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	89		28 - 127
2-Fluorobiphenyl (Surr)	80		31 - 120
2-Fluorophenol (Surr)	69		17 - 120
Nitrobenzene-d5 (Surr)	70		27 - 120
Phenol-d6 (Surr)	41		10 - 120
p-Terphenyl-d14 (Surr)	87		45 - 120

QC Sample Results

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

Job ID: 380-225006-1
SDG: Weekly: Halawa Wells P1

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

Lab Sample ID: 380-225006-1 MSD

Matrix: Drinking Water

Analysis Batch: 772960

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

Prep Type: Total/NA

Prep Batch: 771023

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	<0.19		18.9	14.4		ug/L		76	36 - 120	0	30
2-Methylnaphthalene	<0.19		18.9	12.6		ug/L		66	32 - 124	4	30
Acenaphthene	<0.19		18.9	15.6		ug/L		82	47 - 145	6	48
Acenaphthylene	<0.19		18.9	15.3		ug/L		81	33 - 145	6	74
Anthracene	<0.19		18.9	14.9		ug/L		79	27 - 133	6	66
Benzo[a]anthracene	<0.19		18.9	15.9		ug/L		84	33 - 143	11	53
Benzo[a]pyrene	<0.19		18.9	16.0		ug/L		85	17 - 163	10	72
Benzo[b]fluoranthene	<0.19		18.9	14.8		ug/L		78	24 - 159	10	71
Benzo[g,h,i]perylene	<0.19		18.9	15.5		ug/L		82	1 - 219	6	97
Benzo[k]fluoranthene	<0.19		18.9	15.3		ug/L		81	11 - 162	9	63
Chrysene	<0.19		18.9	15.3		ug/L		81	17 - 168	8	87
Dibenz(a,h)anthracene	<0.19		18.9	16.0		ug/L		85	1 - 227	3	126
Fluoranthene	<0.19		18.9	16.0		ug/L		84	26 - 137	7	66
Fluorene	<0.19		18.9	16.7		ug/L		88	59 - 121	7	38
Indeno[1,2,3-cd]pyrene	<0.19		18.9	15.1		ug/L		80	1 - 171	8	99
Naphthalene	<0.19		18.9	12.8		ug/L		68	21 - 133	3	65
Phenanthrene	<0.19		18.9	15.4		ug/L		82	54 - 120	7	39
Pyrene	<0.19		18.9	15.7		ug/L		83	52 - 120	12	49

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	81		28 - 127
2-Fluorobiphenyl (Surr)	76		31 - 120
2-Fluorophenol (Surr)	57		17 - 120
Nitrobenzene-d5 (Surr)	67		27 - 120
Phenol-d6 (Surr)	38		10 - 120
p-Terphenyl-d14 (Surr)	80		45 - 120

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

Lab Sample ID: MB 570-773807/6

Matrix: Water

Analysis Batch: 773807

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			07/24/26 12:18	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		38 - 134				07/24/26 12:18	1

Lab Sample ID: LCS 570-773807/3

Matrix: Water

Analysis Batch: 773807

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	360		ug/L		90	78 - 120

Eurofins Pomona

QC Sample Results

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

Job ID: 380-225006-1
SDG: Weekly: Halawa Wells P1

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

Lab Sample ID: LCS 570-773807/3

Matrix: Water

Analysis Batch: 773807

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		38 - 134

Lab Sample ID: LCSD 570-773807/4

Matrix: Water

Analysis Batch: 773807

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	381		ug/L		95	78 - 120	6	10

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

Lab Sample ID: MRL 570-773807/5

Matrix: Water

Analysis Batch: 773807

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	12.4		ug/L		124	50 - 150		

	MRL	MRL	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	83		38 - 134

Lab Sample ID: 380-225006-1 MS

Matrix: Drinking Water

Analysis Batch: 773807

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	358		ug/L		89	68 - 122	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		38 - 134

Lab Sample ID: 380-225006-1 MSD

Matrix: Drinking Water

Analysis Batch: 773807

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
Gasoline Range Organics (C4-C13)	<10		400	374		ug/L		94	68 - 122	5

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		38 - 134

QC Sample Results

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

Job ID: 380-225006-1
SDG: Weekly: Halawa Wells P1

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

Lab Sample ID: MB 570-771057/1-A

Matrix: Water

Analysis Batch: 775020

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 771057

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<25		25	ug/L		07/19/26 09:03	07/27/26 18:15	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		07/19/26 09:03	07/27/26 18:15	1
C8-C18	<25		25	ug/L		07/19/26 09:03	07/27/26 18:15	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	110		60 - 130			07/19/26 09:03	07/27/26 18:15	1

Lab Sample ID: LCS 570-771057/2-A

Matrix: Water

Analysis Batch: 775020

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 771057

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
C10-C28	1600	1460		ug/L		92	56 - 127	
Surrogate	LCS %Recovery	LCS Qualifier	Limits					
n-Octacosane (Surr)	108		60 - 130					

Lab Sample ID: LCSD 570-771057/3-A

Matrix: Water

Analysis Batch: 775020

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 771057

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28	1600	1300		ug/L		81	56 - 127	12	23
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
n-Octacosane (Surr)	110		60 - 130						

Lab Sample ID: MRL 570-771057/4-A

Matrix: Water

Analysis Batch: 775020

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 771057

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits	
C10-C28	0.0200	0.0382	^3+	mg/L		191	50 - 150	
Surrogate	MRL %Recovery	MRL Qualifier	Limits					
n-Octacosane (Surr)	115		60 - 130					

Lab Sample ID: 380-225006-1 MS

Matrix: Drinking Water

Analysis Batch: 775020

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

Prep Type: Total/NA

Prep Batch: 771057

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
C10-C28	<25	^3+	1640	1740		ug/L		106	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
n-Octacosane (Surr)	115		60 - 130						

Eurofins Pomona

QC Sample Results

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

Job ID: 380-225006-1
SDG: Weekly: Halawa Wells P1

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

Lab Sample ID: 380-225006-1 MSD

Matrix: Drinking Water

Analysis Batch: 775020

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

Prep Type: Total/NA

Prep Batch: 771057

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28	<25	^3+	1630	1640		ug/L		101	70 - 130	5	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
n-Octacosane (Surr)	111		60 - 130								

QC Association Summary

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

Job ID: 380-225006-1
SDG: Weekly: Halawa Wells P1

GC/MS Semi VOA

Prep Batch: 240998

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-225006-1	HALAWA WELLS P1 (331-023-WL065)	Total/NA	Drinking Water	525.2	
MB 380-240998/21-A	Method Blank	Total/NA	Water	525.2	
LCS 380-240998/23-A	Lab Control Sample	Total/NA	Water	525.2	
MRL 380-240998/22-A	Lab Control Sample	Total/NA	Water	525.2	
380-224993-I-1-A MS	Matrix Spike	Total/NA	Water	525.2	
380-225005-I-1-A DU	Duplicate	Total/NA	Water	525.2	

Analysis Batch: 241306

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-225006-1	HALAWA WELLS P1 (331-023-WL065)	Total/NA	Drinking Water	525.2	240998
MB 380-240998/21-A	Method Blank	Total/NA	Water	525.2	240998
LCS 380-240998/23-A	Lab Control Sample	Total/NA	Water	525.2	240998
MRL 380-240998/22-A	Lab Control Sample	Total/NA	Water	525.2	240998
380-224993-I-1-A MS	Matrix Spike	Total/NA	Water	525.2	240998
380-225005-I-1-A DU	Duplicate	Total/NA	Water	525.2	240998

Prep Batch: 771023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-225006-1	HALAWA WELLS P1 (331-023-WL065)	Total/NA	Drinking Water	625.1	
MB 570-771023/1-A	Method Blank	Total/NA	Water	625.1	
LCS 570-771023/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 570-771023/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	
380-225006-1 MS	HALAWA WELLS P1 (331-023-WL065)	Total/NA	Drinking Water	625.1	
380-225006-1 MSD	HALAWA WELLS P1 (331-023-WL065)	Total/NA	Drinking Water	625.1	

Analysis Batch: 771785

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-771023/1-A	Method Blank	Total/NA	Water	625.1 SIM	771023
LCS 570-771023/2-A	Lab Control Sample	Total/NA	Water	625.1 SIM	771023
LCSD 570-771023/3-A	Lab Control Sample Dup	Total/NA	Water	625.1 SIM	771023

Analysis Batch: 772960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-225006-1	HALAWA WELLS P1 (331-023-WL065)	Total/NA	Drinking Water	625.1 SIM	771023
380-225006-1 MS	HALAWA WELLS P1 (331-023-WL065)	Total/NA	Drinking Water	625.1 SIM	771023
380-225006-1 MSD	HALAWA WELLS P1 (331-023-WL065)	Total/NA	Drinking Water	625.1 SIM	771023

Analysis Batch: 775065

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-225006-1	HALAWA WELLS P1 (331-023-WL065)	Total/NA	Drinking Water	625.1	771023
MB 570-771023/1-A	Method Blank	Total/NA	Water	625.1	771023

GC VOA

Analysis Batch: 773807

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-225006-1	HALAWA WELLS P1 (331-023-WL065)	Total/NA	Drinking Water	8015B GRO LL	
380-225006-2	TB: HALAWA WELLS P1 (331-023-WL065)	Total/NA	Water	8015B GRO LL	
MB 570-773807/6	Method Blank	Total/NA	Water	8015B GRO LL	
LCS 570-773807/3	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-773807/4	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	

Eurofins Pomona

QC Association Summary

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

Job ID: 380-225006-1
SDG: Weekly: Halawa Wells P1

GC VOA (Continued)

Analysis Batch: 773807 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MRL 570-773807/5	Lab Control Sample	Total/NA	Water	8015B GRO LL	
380-225006-1 MS	HALAWA WELLS P1 (331-023-WL065)	Total/NA	Drinking Water	8015B GRO LL	
380-225006-1 MSD	HALAWA WELLS P1 (331-023-WL065)	Total/NA	Drinking Water	8015B GRO LL	

GC Semi VOA

Prep Batch: 771057

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-225006-1	HALAWA WELLS P1 (331-023-WL065)	Total/NA	Drinking Water	3510C	
MB 570-771057/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-771057/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-771057/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-771057/4-A	Lab Control Sample	Total/NA	Water	3510C	
380-225006-1 MS	HALAWA WELLS P1 (331-023-WL065)	Total/NA	Drinking Water	3510C	
380-225006-1 MSD	HALAWA WELLS P1 (331-023-WL065)	Total/NA	Drinking Water	3510C	

Analysis Batch: 775020

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-225006-1	HALAWA WELLS P1 (331-023-WL065)	Total/NA	Drinking Water	8015B	771057
MB 570-771057/1-A	Method Blank	Total/NA	Water	8015B	771057
LCS 570-771057/2-A	Lab Control Sample	Total/NA	Water	8015B	771057
LCSD 570-771057/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	771057
MRL 570-771057/4-A	Lab Control Sample	Total/NA	Water	8015B	771057
380-225006-1 MS	HALAWA WELLS P1 (331-023-WL065)	Total/NA	Drinking Water	8015B	771057
380-225006-1 MSD	HALAWA WELLS P1 (331-023-WL065)	Total/NA	Drinking Water	8015B	771057

Lab Chronicle

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

Job ID: 380-225006-1
SDG: Weekly: Halawa Wells P1

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

Lab Sample ID: 380-225006-1

Date Collected: 07/13/26 10:23

Matrix: Drinking Water

Date Received: 07/15/26 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			240998	IQ42	EA POM	07/20/26 14:24
Total/NA	Analysis	525.2		1	241306	Q8LA	EA POM	07/21/26 17:56
Total/NA	Prep	625.1			771023	KLZQ	EET CAL 4	07/19/26 07:42
Total/NA	Analysis	625.1		1	775065	S4EA	EET CAL 4	07/28/26 01:15
Total/NA	Prep	625.1			771023	KLZQ	EET CAL 4	07/19/26 07:42
Total/NA	Analysis	625.1 SIM		1	772960	S4EA	EET CAL 4	07/23/26 06:05
Total/NA	Analysis	8015B GRO LL		1	773807	A9VE	EET CAL 4	07/24/26 16:00
Total/NA	Prep	3510C			771057	TVD6	EET CAL 4	07/19/26 09:04
Total/NA	Analysis	8015B		1	775020	NR	EET CAL 4	07/27/26 21:08

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

Lab Sample ID: 380-225006-2

Date Collected: 07/13/26 10:23

Matrix: Water

Date Received: 07/15/26 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	773807	A9VE	EET CAL 4	07/24/26 19:38

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: 380-225006-1
SDG: Weekly: Halawa Wells 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 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	07-31-26
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: 380-225006-1
SDG: Weekly: Halawa Wells 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	07-31-28
Kansas	NELAP	E-10420	07-31-26
Nevada	State	CA00111	07-31-26
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: 380-225006-1
SDG: Weekly: Halawa Wells 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: 380-225006-1
SDG: Weekly: Halawa Wells P1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
380-225006-1	HALAWA WELLS P1 (331-023-WL065)	Drinking Water	07/13/26 10:23	07/15/26 10:10	Hawaii
380-225006-2	TB: HALAWA WELLS P1 (331-023-WL065)	Water	07/13/26 10:23	07/15/26 10:10	Hawaii

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- 16

Chain of Custody Record



En



380-225006 COC

Client Information		Lab PM: Lopez, Maria		Carrier Tracking No(s):		COC No:	
Client Contact: Kirk Iwamoto		Phone: +1 808 748 5840		E-Mail: Maria.Lopez@et.eurofins.com		Page: Page 1 of 1	
Company: City & County of Honolulu		Address: 630 South Beretania Street Chemistry Lab		City: Honolulu		State: HI, 96843	
Phone: 808-748-5840 (Tel)		PO #: C20525101 exp 05312023		Compliance Project: ☐ Yes ☒ No		TAT Requested (days):	
Email: kiwamoto@hbws.org		Project #: 38001111		SSOW#:		Due Date Requested:	
Project Name: RED-HILL/HBWS Sites Event Desc: RUSH Weekly Red Hill		Site: Hawaii		Sample Date: 13-Jul-2026		Sample Time: 1023	
Sample Identification		Sample Type (C=Comp, G=grab)		Preservation Code:		Matrix (W=water, S=solid, O=onwater, BT=tissue, AA=air)	
Halawa Wells P1 (331-023-WL065)		G		1023		Water	
Halawa Wells P1 (331-023-WL065) (Matrix Spike)						Water	
Halawa Wells P1 (331-023-WL065)(Matrix Spike Duplicate)						Water	
TB Halawa Wells P1 (331-023-WL065)				1023		Water	
Possible Hazard Identification		☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months	
Deliverable Requested I, II, III, IV, Other (specify)		Empty Kit Relinquished by		Date: 13-Jul-2026		Time: 1400	
Relinquished by		Date/Time: 13-Jul-2026 1400		Date/Time: 07/15/26 10:10		Company: HBWS	
Custody Seals Intact: ☐ Yes ☒ No		Custody Seal No.		Date/Time: 07/15/26 10:10		Company: HBWS	
Cooler Temperature(s) °C and Other Remarks: 75/1A 3.1-0.0-3.1		Date/Time: 07/15/26 10:10		Date/Time: 07/15/26 10:10		Company: HBWS	

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

SHIP DATE: 14JUL26
ACTWGT: 62.00 LB
CAD: 25806055ZINET4535

BILL RECIPIENT

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

POMONA CA 91768

(626) 386-1100 REF

PO-

DEPT



FedEx Express
26102601200100

WED - 15 JUL 10:30A
PRIORITY OVERNIGHT

5 of 5

MPS# 8743 8583 3152

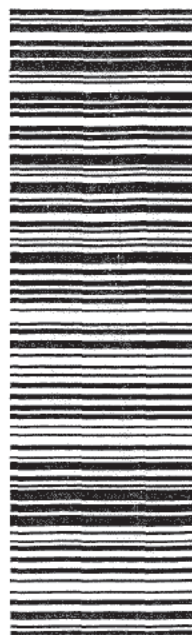
0263

Mstr# 8743 8583 3119

91768

WM ONTA

CA-US ONT



RECEIVED BY: [Signature]
07/15/26 10:12
(757A) 3.1'-0.0'-3.1'
GEL-FRSTED

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: 380-225006-1
SDG Number: Weekly: Halawa Wells P1

Login Number: 225006

List Number: 1

Creator: Tran, Kristine

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").	N/A	
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: 380-225006-1
SDG Number: Weekly: Halawa Wells P1

Login Number: 225006

List Number: 2

Creator: Khana, Piyush

List Source: Eurofins Calscience

List Creation: 07/16/26 11:22 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= 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	1.6
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 <6mm (1/4").	True	fgf5
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	