

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

ANALYTICAL REPORT

PREPARED FOR

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

Generated 10/15/2024 12:52:03 PM

JOB DESCRIPTION

RED-HILL
Weekly

JOB NUMBER

380-115727-1

Eurofins Eaton Analytical Pomona

Job Notes

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

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

Compliance Statement

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

Authorization



Generated
10/15/2024 12:52:03 PM

Authorized for release by
Rachelle Arada, Project Manager
Rachelle.Arada@et.eurofinsus.com
(626)386-1106



Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Detection Summary	6
Client Sample Results	7
Action Limit Summary	14
Surrogate Summary	15
QC Sample Results	18
QC Association Summary	35
Lab Chronicle	37
Certification Summary	38
Method Summary	40
Sample Summary	41
Chain of Custody	42
Receipt Checklists	58

Definitions/Glossary

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

Job ID: 380-115727-1
SDG: Weekly

Qualifiers

GC/MS Semi VOA

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

GC/MS Semi VOA TICs

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

GC Semi VOA

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

Glossary

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

Case Narrative

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

Job ID: 380-115727-1

Job ID: 380-115727-1

Eurofins Eaton Analytical Pomona

Job Narrative 380-115727-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 10/2/2024 7:19 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 3.2°C, 4.0°C and 5.2°C.

GC/MS Semi VOA

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

Gasoline Range Organics

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

Diesel Range Organics

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

Detection Summary

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

Job ID: 380-115727-1
SDG: Weekly

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

Lab Sample ID: 380-115727-1

No Detections.

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

Lab Sample ID: 380-115727-2

No Detections.

**Client Sample ID: AIEA WELLS PUMPS 1&2 P2 (260)
(331-203-TP400)**

Lab Sample ID: 380-115727-3

No Detections.

**Client Sample ID: TB: AIEA WELLS PUMPS 1&2 (260)
(331-203-TP400)**

Lab Sample ID: 380-115727-4

No Detections.

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

This Detection Summary does not include radiochemical test results.

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-115727-1
SDG: Weekly

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

Lab Sample ID: 380-115727-1

Date Collected: 09/30/24 10:19

Matrix: Drinking Water

Date Received: 10/02/24 07:19

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	<0.098		0.098	ug/L		10/06/24 12:09	10/07/24 17:23	1
2,4'-DDE	<0.098		0.098	ug/L		10/06/24 12:09	10/07/24 17:23	1
2,4'-DDT	<0.098		0.098	ug/L		10/06/24 12:09	10/07/24 17:23	1
2,4-Dinitrotoluene	<0.098		0.098	ug/L		10/06/24 12:09	10/07/24 17:23	1
2,6-Dinitrotoluene	<0.098		0.098	ug/L		10/06/24 12:09	10/07/24 17:23	1
4,4'-DDD	<0.098		0.098	ug/L		10/06/24 12:09	10/07/24 17:23	1
4,4'-DDE	<0.098		0.098	ug/L		10/06/24 12:09	10/07/24 17:23	1
4,4'-DDT	<0.098		0.098	ug/L		10/06/24 12:09	10/07/24 17:23	1
Acenaphthene	<0.098		0.098	ug/L		10/06/24 12:09	10/07/24 17:23	1
Acenaphthylene	<0.098		0.098	ug/L		10/06/24 12:09	10/07/24 17:23	1
Acetochlor	<0.098		0.098	ug/L		10/06/24 12:09	10/07/24 17:23	1
Alachlor	<0.049		0.049	ug/L		10/06/24 12:09	10/07/24 17:23	1
alpha-BHC	<0.098		0.098	ug/L		10/06/24 12:09	10/07/24 17:23	1
alpha-Chlordane	<0.049		0.049	ug/L		10/06/24 12:09	10/07/24 17:23	1
Anthracene	<0.020		0.020	ug/L		10/06/24 12:09	10/07/24 17:23	1
Atrazine	<0.049		0.049	ug/L		10/06/24 12:09	10/07/24 17:23	1
Benz(a)anthracene	<0.049		0.049	ug/L		10/06/24 12:09	10/07/24 17:23	1
Benzo[a]pyrene	<0.020		0.020	ug/L		10/06/24 12:09	10/07/24 17:23	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		10/06/24 12:09	10/07/24 17:23	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		10/06/24 12:09	10/07/24 17:23	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		10/06/24 12:09	10/07/24 17:23	1
beta-BHC	<0.098		0.098	ug/L		10/06/24 12:09	10/07/24 17:23	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		10/06/24 12:09	10/07/24 17:23	1
Aldrin	<0.0098		0.0098	ug/L		10/06/24 12:09	10/07/24 17:23	1
Bromacil	<0.098		0.098	ug/L		10/06/24 12:09	10/07/24 17:23	1
Butachlor	<0.049		0.049	ug/L		10/06/24 12:09	10/07/24 17:23	1
Butylbenzylphthalate	<0.49		0.49	ug/L		10/06/24 12:09	10/07/24 17:23	1
Chlorobenzilate	<0.098	*1	0.098	ug/L		10/06/24 12:09	10/07/24 17:23	1
Chloroneb	<0.098		0.098	ug/L		10/06/24 12:09	10/07/24 17:23	1
Chlorothalonil (Draconil, Bravo)	<0.098		0.098	ug/L		10/06/24 12:09	10/07/24 17:23	1
Chlorpyrifos	<0.049		0.049	ug/L		10/06/24 12:09	10/07/24 17:23	1
Chrysene	<0.020		0.020	ug/L		10/06/24 12:09	10/07/24 17:23	1
delta-BHC	<0.098		0.098	ug/L		10/06/24 12:09	10/07/24 17:23	1
Di(2-ethylhexyl)adipate	<0.59	*1	0.59	ug/L		10/06/24 12:09	10/07/24 17:23	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		10/06/24 12:09	10/07/24 17:23	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		10/06/24 12:09	10/07/24 17:23	1
Dieldrin	<0.0098		0.0098	ug/L		10/06/24 12:09	10/07/24 17:23	1
Diethylphthalate	<0.49		0.49	ug/L		10/06/24 12:09	10/07/24 17:23	1
Dimethylphthalate	<0.49		0.49	ug/L		10/06/24 12:09	10/07/24 17:23	1
Di-n-butyl phthalate	<0.98		0.98	ug/L		10/06/24 12:09	10/07/24 17:23	1
Di-n-octyl phthalate	<0.098		0.098	ug/L		10/06/24 12:09	10/07/24 17:23	1
Endosulfan I (Alpha)	<0.098		0.098	ug/L		10/06/24 12:09	10/07/24 17:23	1
Endosulfan II (Beta)	<0.098		0.098	ug/L		10/06/24 12:09	10/07/24 17:23	1
Endosulfan sulfate	<0.098		0.098	ug/L		10/06/24 12:09	10/07/24 17:23	1
Endrin	<0.0098		0.0098	ug/L		10/06/24 12:09	10/07/24 17:23	1
Endrin aldehyde	<0.098		0.098	ug/L		10/06/24 12:09	10/07/24 17:23	1
EPTC	<0.098		0.098	ug/L		10/06/24 12:09	10/07/24 17:23	1
Fluoranthene	<0.098		0.098	ug/L		10/06/24 12:09	10/07/24 17:23	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-115727-1
SDG: Weekly

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

Lab Sample ID: 380-115727-1

Date Collected: 09/30/24 10:19

Matrix: Drinking Water

Date Received: 10/02/24 07:19

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		10/06/24 12:09	10/07/24 17:23	1
gamma-BHC (Lindane)	<0.0098		0.0098	ug/L		10/06/24 12:09	10/07/24 17:23	1
gamma-Chlordane	<0.049		0.049	ug/L		10/06/24 12:09	10/07/24 17:23	1
Heptachlor	<0.0098		0.0098	ug/L		10/06/24 12:09	10/07/24 17:23	1
Heptachlor epoxide (isomer B)	<0.0098		0.0098	ug/L		10/06/24 12:09	10/07/24 17:23	1
Hexachlorobenzene	<0.049		0.049	ug/L		10/06/24 12:09	10/07/24 17:23	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		10/06/24 12:09	10/07/24 17:23	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		10/06/24 12:09	10/07/24 17:23	1
Isophorone	<0.098		0.098	ug/L		10/06/24 12:09	10/07/24 17:23	1
Malathion	<0.098		0.098	ug/L		10/06/24 12:09	10/07/24 17:23	1
Methoxychlor	<0.049	*1	0.049	ug/L		10/06/24 12:09	10/07/24 17:23	1
Metolachlor	<0.049		0.049	ug/L		10/06/24 12:09	10/07/24 17:23	1
Molinate	<0.098		0.098	ug/L		10/06/24 12:09	10/07/24 17:23	1
Naphthalene	<0.098		0.098	ug/L		10/06/24 12:09	10/07/24 17:23	1
Parathion	<0.098		0.098	ug/L		10/06/24 12:09	10/07/24 17:23	1
Pendimethalin (Penoxaline)	<0.098		0.098	ug/L		10/06/24 12:09	10/07/24 17:23	1
Phenanthrene	<0.039		0.039	ug/L		10/06/24 12:09	10/07/24 17:23	1
Propachlor	<0.049		0.049	ug/L		10/06/24 12:09	10/07/24 17:23	1
Pyrene	<0.049		0.049	ug/L		10/06/24 12:09	10/07/24 17:23	1
Simazine	<0.049		0.049	ug/L		10/06/24 12:09	10/07/24 17:23	1
Terbacil	<0.098		0.098	ug/L		10/06/24 12:09	10/07/24 17:23	1
Terbutylazine	<0.098		0.098	ug/L		10/06/24 12:09	10/07/24 17:23	1
Thiobencarb	<0.098		0.098	ug/L		10/06/24 12:09	10/07/24 17:23	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		10/06/24 12:09	10/07/24 17:23	1
trans-Nonachlor	<0.049		0.049	ug/L		10/06/24 12:09	10/07/24 17:23	1
Trifluralin	<0.098		0.098	ug/L		10/06/24 12:09	10/07/24 17:23	1
1-Methylnaphthalene	<0.098		0.098	ug/L		10/06/24 12:09	10/07/24 17:23	1
2-Methylnaphthalene	<0.098		0.098	ug/L		10/06/24 12:09	10/07/24 17:23	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Hexathiane	4.8	T J N	ug/L		4.93	13798-23-7	10/06/24 12:09	10/07/24 17:23	1
Cyclic octaatomic sulfur	15	T J N	ug/L		6.83	10544-50-0	10/06/24 12:09	10/07/24 17:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	98		70 - 130	10/06/24 12:09	10/07/24 17:23	1
Perylene-d12	87		70 - 130	10/06/24 12:09	10/07/24 17:23	1
Triphenylphosphate	108		70 - 130	10/06/24 12:09	10/07/24 17:23	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		10/04/24 05:24	10/06/24 15:33	1
2-Methylnaphthalene	<0.19		0.19	ug/L		10/04/24 05:24	10/06/24 15:33	1
Acenaphthene	<0.19		0.19	ug/L		10/04/24 05:24	10/06/24 15:33	1
Acenaphthylene	<0.19		0.19	ug/L		10/04/24 05:24	10/06/24 15:33	1
Benzo[a]anthracene	<0.19		0.19	ug/L		10/04/24 05:24	10/06/24 15:33	1
Benzo[a]pyrene	<0.19		0.19	ug/L		10/04/24 05:24	10/06/24 15:33	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		10/04/24 05:24	10/06/24 15:33	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		10/04/24 05:24	10/06/24 15:33	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		10/04/24 05:24	10/06/24 15:33	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-115727-1
SDG: Weekly

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

Lab Sample ID: 380-115727-1

Date Collected: 09/30/24 10:19

Matrix: Drinking Water

Date Received: 10/02/24 07:19

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.19		0.19	ug/L		10/04/24 05:24	10/06/24 15:33	1
Dibenz(a,h)anthracene	<0.19		0.19	ug/L		10/04/24 05:24	10/06/24 15:33	1
Fluoranthene	<0.19		0.19	ug/L		10/04/24 05:24	10/06/24 15:33	1
Fluorene	<0.19		0.19	ug/L		10/04/24 05:24	10/06/24 15:33	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		10/04/24 05:24	10/06/24 15:33	1
Naphthalene	<0.19		0.19	ug/L		10/04/24 05:24	10/06/24 15:33	1
Phenanthrene	<0.19		0.19	ug/L		10/04/24 05:24	10/06/24 15:33	1
Pyrene	<0.19		0.19	ug/L		10/04/24 05:24	10/06/24 15:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	70		28 - 127	10/04/24 05:24	10/06/24 15:33	1
2-Fluorobiphenyl (Surr)	42		31 - 120	10/04/24 05:24	10/06/24 15:33	1
2-Fluorophenol (Surr)	41		17 - 120	10/04/24 05:24	10/06/24 15:33	1
Nitrobenzene-d5 (Surr)	42		27 - 120	10/04/24 05:24	10/06/24 15:33	1
Phenol-d6 (Surr)	26		10 - 120	10/04/24 05:24	10/06/24 15:33	1
p-Terphenyl-d14 (Surr)	46		45 - 120	10/04/24 05:24	10/06/24 15:33	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	10/04/24 05:24	10/14/24 11:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	71		33 - 139	10/04/24 05:24	10/14/24 11:49	1
2-Fluorobiphenyl (Surr)	55		33 - 126	10/04/24 05:24	10/14/24 11:49	1
2-Fluorophenol (Surr)	45		12 - 120	10/04/24 05:24	10/14/24 11:49	1
Nitrobenzene-d5 (Surr)	62		36 - 120	10/04/24 05:24	10/14/24 11:49	1
Phenol-d6 (Surr)	25		10 - 120	10/04/24 05:24	10/14/24 11:49	1
p-Terphenyl-d14 (Surr)	65		47 - 131	10/04/24 05:24	10/14/24 11:49	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			10/11/24 00:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		38 - 134		10/11/24 00:11	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<26		26	ug/L		10/04/24 13:52	10/06/24 09:23	1
Motor Oil Range Organics [C24-C36]	<26		26	ug/L		10/04/24 13:52	10/06/24 09:23	1
C8-C18	<26		26	ug/L		10/04/24 13:52	10/06/24 09:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	115		60 - 130	10/04/24 13:52	10/06/24 09:23	1

Client Sample Results

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

Job ID: 380-115727-1
SDG: Weekly

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

Lab Sample ID: 380-115727-2

Date Collected: 09/30/24 10:19

Matrix: Water

Date Received: 10/02/24 07:19

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			10/10/24 20:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		38 - 134				10/10/24 20:41	1

Client Sample ID: AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP400)

Lab Sample ID: 380-115727-3

Date Collected: 09/30/24 10:43

Matrix: Drinking Water

Date Received: 10/02/24 07:19

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 17:44	1
2,4'-DDE	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 17:44	1
2,4'-DDT	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 17:44	1
2,4-Dinitrotoluene	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 17:44	1
2,6-Dinitrotoluene	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 17:44	1
4,4'-DDD	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 17:44	1
4,4'-DDE	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 17:44	1
4,4'-DDT	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 17:44	1
Acenaphthene	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 17:44	1
Acenaphthylene	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 17:44	1
Acetochlor	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 17:44	1
Alachlor	<0.048		0.048	ug/L		10/06/24 12:09	10/07/24 17:44	1
alpha-BHC	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 17:44	1
alpha-Chlordane	<0.048		0.048	ug/L		10/06/24 12:09	10/07/24 17:44	1
Anthracene	<0.019		0.019	ug/L		10/06/24 12:09	10/07/24 17:44	1
Atrazine	<0.048		0.048	ug/L		10/06/24 12:09	10/07/24 17:44	1
Benz(a)anthracene	<0.048		0.048	ug/L		10/06/24 12:09	10/07/24 17:44	1
Benzo[a]pyrene	<0.019		0.019	ug/L		10/06/24 12:09	10/07/24 17:44	1
Benzo[b]fluoranthene	<0.019		0.019	ug/L		10/06/24 12:09	10/07/24 17:44	1
Benzo[g,h,i]perylene	<0.048		0.048	ug/L		10/06/24 12:09	10/07/24 17:44	1
Benzo[k]fluoranthene	<0.019		0.019	ug/L		10/06/24 12:09	10/07/24 17:44	1
beta-BHC	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 17:44	1
Bis(2-ethylhexyl) phthalate	<0.58		0.58	ug/L		10/06/24 12:09	10/07/24 17:44	1
Aldrin	<0.0097		0.0097	ug/L		10/06/24 12:09	10/07/24 17:44	1
Bromacil	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 17:44	1
Butachlor	<0.048		0.048	ug/L		10/06/24 12:09	10/07/24 17:44	1
Butylbenzylphthalate	<0.48		0.48	ug/L		10/06/24 12:09	10/07/24 17:44	1
Chlorobenzilate	<0.097	*1	0.097	ug/L		10/06/24 12:09	10/07/24 17:44	1
Chloroneb	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 17:44	1
Chlorothalonil (Draconil, Bravo)	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 17:44	1
Chlorpyrifos	<0.048		0.048	ug/L		10/06/24 12:09	10/07/24 17:44	1
Chrysene	<0.019		0.019	ug/L		10/06/24 12:09	10/07/24 17:44	1
delta-BHC	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 17:44	1
Di(2-ethylhexyl)adipate	<0.58	*1	0.58	ug/L		10/06/24 12:09	10/07/24 17:44	1
Dibenz(a,h)anthracene	<0.048		0.048	ug/L		10/06/24 12:09	10/07/24 17:44	1
Diclorvos (DDVP)	<0.048		0.048	ug/L		10/06/24 12:09	10/07/24 17:44	1
Dieldrin	<0.0097		0.0097	ug/L		10/06/24 12:09	10/07/24 17:44	1
Diethylphthalate	<0.48		0.48	ug/L		10/06/24 12:09	10/07/24 17:44	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-115727-1
SDG: Weekly

**Client Sample ID: AIEA WELLS PUMPS 1&2 P2 (260)
(331-203-TP400)**

Lab Sample ID: 380-115727-3

Date Collected: 09/30/24 10:43

Matrix: Drinking Water

Date Received: 10/02/24 07:19

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethylphthalate	<0.48		0.48	ug/L		10/06/24 12:09	10/07/24 17:44	1
Di-n-butyl phthalate	<0.97		0.97	ug/L		10/06/24 12:09	10/07/24 17:44	1
Di-n-octyl phthalate	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 17:44	1
Endosulfan I (Alpha)	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 17:44	1
Endosulfan II (Beta)	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 17:44	1
Endosulfan sulfate	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 17:44	1
Endrin	<0.0097		0.0097	ug/L		10/06/24 12:09	10/07/24 17:44	1
Endrin aldehyde	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 17:44	1
EPTC	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 17:44	1
Fluoranthene	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 17:44	1
Fluorene	<0.048		0.048	ug/L		10/06/24 12:09	10/07/24 17:44	1
gamma-BHC (Lindane)	<0.0097		0.0097	ug/L		10/06/24 12:09	10/07/24 17:44	1
gamma-Chlordane	<0.048		0.048	ug/L		10/06/24 12:09	10/07/24 17:44	1
Heptachlor	<0.0097		0.0097	ug/L		10/06/24 12:09	10/07/24 17:44	1
Heptachlor epoxide (isomer B)	<0.0097		0.0097	ug/L		10/06/24 12:09	10/07/24 17:44	1
Hexachlorobenzene	<0.048		0.048	ug/L		10/06/24 12:09	10/07/24 17:44	1
Hexachlorocyclopentadiene	<0.048		0.048	ug/L		10/06/24 12:09	10/07/24 17:44	1
Indeno[1,2,3-cd]pyrene	<0.048		0.048	ug/L		10/06/24 12:09	10/07/24 17:44	1
Isophorone	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 17:44	1
Malathion	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 17:44	1
Methoxychlor	<0.048	*1	0.048	ug/L		10/06/24 12:09	10/07/24 17:44	1
Metolachlor	<0.048		0.048	ug/L		10/06/24 12:09	10/07/24 17:44	1
Molinate	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 17:44	1
Naphthalene	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 17:44	1
Parathion	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 17:44	1
Pendimethalin (Penoxaline)	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 17:44	1
Phenanthrene	<0.039		0.039	ug/L		10/06/24 12:09	10/07/24 17:44	1
Propachlor	<0.048		0.048	ug/L		10/06/24 12:09	10/07/24 17:44	1
Pyrene	<0.048		0.048	ug/L		10/06/24 12:09	10/07/24 17:44	1
Simazine	<0.048		0.048	ug/L		10/06/24 12:09	10/07/24 17:44	1
Terbacil	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 17:44	1
Terbutylazine	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 17:44	1
Thiobencarb	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 17:44	1
Total Permethrin (mixed isomers)	<0.19		0.19	ug/L		10/06/24 12:09	10/07/24 17:44	1
trans-Nonachlor	<0.048		0.048	ug/L		10/06/24 12:09	10/07/24 17:44	1
Trifluralin	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 17:44	1
1-Methylnaphthalene	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 17:44	1
2-Methylnaphthalene	<0.097		0.097	ug/L		10/06/24 12:09	10/07/24 17:44	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Hexathiane	1.9	T J N	ug/L		4.93	13798-23-7	10/06/24 12:09	10/07/24 17:44	1
Cyclic octaatomic sulfur	1.9	T J N	ug/L		6.83	10544-50-0	10/06/24 12:09	10/07/24 17:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	98		70 - 130	10/06/24 12:09	10/07/24 17:44	1
Perylene-d12	99		70 - 130	10/06/24 12:09	10/07/24 17:44	1
Triphenylphosphate	109		70 - 130	10/06/24 12:09	10/07/24 17:44	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-115727-1
SDG: Weekly

Client Sample ID: AIEA WELLS PUMPS 1&2 P2 (260)
(331-203-TP400)

Lab Sample ID: 380-115727-3

Date Collected: 09/30/24 10:43

Matrix: Drinking Water

Date Received: 10/02/24 07:19

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		10/04/24 05:24	10/06/24 15:55	1
2-Methylnaphthalene	<0.19		0.19	ug/L		10/04/24 05:24	10/06/24 15:55	1
Acenaphthene	<0.19		0.19	ug/L		10/04/24 05:24	10/06/24 15:55	1
Acenaphthylene	<0.19		0.19	ug/L		10/04/24 05:24	10/06/24 15:55	1
Benzo[a]anthracene	<0.19		0.19	ug/L		10/04/24 05:24	10/06/24 15:55	1
Benzo[a]pyrene	<0.19		0.19	ug/L		10/04/24 05:24	10/06/24 15:55	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		10/04/24 05:24	10/06/24 15:55	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		10/04/24 05:24	10/06/24 15:55	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		10/04/24 05:24	10/06/24 15:55	1
Chrysene	<0.19		0.19	ug/L		10/04/24 05:24	10/06/24 15:55	1
Dibenz(a,h)anthracene	<0.19		0.19	ug/L		10/04/24 05:24	10/06/24 15:55	1
Fluoranthene	<0.19		0.19	ug/L		10/04/24 05:24	10/06/24 15:55	1
Fluorene	<0.19		0.19	ug/L		10/04/24 05:24	10/06/24 15:55	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		10/04/24 05:24	10/06/24 15:55	1
Naphthalene	<0.19		0.19	ug/L		10/04/24 05:24	10/06/24 15:55	1
Phenanthrene	<0.19		0.19	ug/L		10/04/24 05:24	10/06/24 15:55	1
Pyrene	<0.19		0.19	ug/L		10/04/24 05:24	10/06/24 15:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	65		28 - 127	10/04/24 05:24	10/06/24 15:55	1
2-Fluorobiphenyl (Surr)	40		31 - 120	10/04/24 05:24	10/06/24 15:55	1
2-Fluorophenol (Surr)	42		17 - 120	10/04/24 05:24	10/06/24 15:55	1
Nitrobenzene-d5 (Surr)	43		27 - 120	10/04/24 05:24	10/06/24 15:55	1
Phenol-d6 (Surr)	26		10 - 120	10/04/24 05:24	10/06/24 15:55	1
p-Terphenyl-d14 (Surr)	46		45 - 120	10/04/24 05:24	10/06/24 15:55	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	10/04/24 05:24	10/14/24 12:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	64		33 - 139	10/04/24 05:24	10/14/24 12:13	1
2-Fluorobiphenyl (Surr)	54		33 - 126	10/04/24 05:24	10/14/24 12:13	1
2-Fluorophenol (Surr)	47		12 - 120	10/04/24 05:24	10/14/24 12:13	1
Nitrobenzene-d5 (Surr)	66		36 - 120	10/04/24 05:24	10/14/24 12:13	1
Phenol-d6 (Surr)	23		10 - 120	10/04/24 05:24	10/14/24 12:13	1
p-Terphenyl-d14 (Surr)	64		47 - 131	10/04/24 05:24	10/14/24 12:13	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			10/11/24 00:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		38 - 134		10/11/24 00:34	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<26		26	ug/L		10/04/24 13:52	10/06/24 09:43	1
Motor Oil Range Organics [C24-C36]	<26		26	ug/L		10/04/24 13:52	10/06/24 09:43	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-115727-1
 SDG: Weekly

Client Sample ID: AIEA WELLS PUMPS 1&2 P2 (260)
(331-203-TP400)

Lab Sample ID: 380-115727-3

Date Collected: 09/30/24 10:43

Matrix: Drinking Water

Date Received: 10/02/24 07:19

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C8-C18	<26		26	ug/L		10/04/24 13:52	10/06/24 09:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>n</i> -Octacosane (Surr)	116		60 - 130			10/04/24 13:52	10/06/24 09:43	1

Client Sample ID: TB: AIEA WELLS PUMPS 1&2 (260)
(331-203-TP400)

Lab Sample ID: 380-115727-4

Date Collected: 09/30/24 10:43

Matrix: Water

Date Received: 10/02/24 07:19

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			10/10/24 21:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		38 - 134				10/10/24 21:05	1

Action Limit Summary

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

Job ID: 380-115727-1
SDG: Weekly

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

Lab Sample ID: 380-115727-1

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	*1	ug/L	400	0.59	525.2	Total/NA
Endrin	<0.0098		ug/L	2	0.0098	525.2	Total/NA
gamma-BHC (Lindane)	<0.0098		ug/L	0.2	0.0098	525.2	Total/NA
Heptachlor	<0.0098		ug/L	0.4	0.0098	525.2	Total/NA
Heptachlor epoxide (isomer B)	<0.0098		ug/L	0.2	0.0098	525.2	Total/NA
Hexachlorobenzene	<0.049		ug/L	1	0.049	525.2	Total/NA
Hexachlorocyclopentadiene	<0.049		ug/L	50	0.049	525.2	Total/NA
Methoxychlor	<0.049	*1	ug/L	40	0.049	525.2	Total/NA
Simazine	<0.049		ug/L	4	0.049	525.2	Total/NA
Benzo[a]pyrene	<0.19		ug/L	0.2	0.19	625.1 SIM	Total/NA

**Client Sample ID: AIEA WELLS PUMPS 1&2 P2 (260)
(331-203-TP400)**

Lab Sample ID: 380-115727-3

Compliance Check

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

Analyte	Result	Qualifier	Unit	EPAMCL	RL	Method	Prep Type
				Limit			
Alachlor	<0.048		ug/L	2	0.048	525.2	Total/NA
Atrazine	<0.048		ug/L	3	0.048	525.2	Total/NA
Benzo[a]pyrene	<0.019		ug/L	0.2	0.019	525.2	Total/NA
Bis(2-ethylhexyl) phthalate	<0.58		ug/L	6	0.58	525.2	Total/NA
Di(2-ethylhexyl)adipate	<0.58	*1	ug/L	400	0.58	525.2	Total/NA
Endrin	<0.0097		ug/L	2	0.0097	525.2	Total/NA
gamma-BHC (Lindane)	<0.0097		ug/L	0.2	0.0097	525.2	Total/NA
Heptachlor	<0.0097		ug/L	0.4	0.0097	525.2	Total/NA
Heptachlor epoxide (isomer B)	<0.0097		ug/L	0.2	0.0097	525.2	Total/NA
Hexachlorobenzene	<0.048		ug/L	1	0.048	525.2	Total/NA
Hexachlorocyclopentadiene	<0.048		ug/L	50	0.048	525.2	Total/NA
Methoxychlor	<0.048	*1	ug/L	40	0.048	525.2	Total/NA
Simazine	<0.048		ug/L	4	0.048	525.2	Total/NA
Benzo[a]pyrene	<0.19		ug/L	0.2	0.19	625.1 SIM	Total/NA

Surrogate Summary

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

Job ID: 380-115727-1
SDG: Weekly

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)
380-115727-1	AIEA GULCH WELLS PUMP 2 (	98	87	108
380-115727-3	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP400)	98	99	109

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)
380-115709-B-1-A MSD	Matrix Spike Duplicate	96	89	103
380-115709-C-1-A MS	Matrix Spike	97	91	105
LCS 380-111994/23-A	Lab Control Sample	97	84	103
LCSD 380-111994/24-A	Lab Control Sample Dup	97	75	103
MB 380-111994/21-A	Method Blank	96	88	105
MRL 380-111994/22-A	Lab Control Sample	96	73	99

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)
380-115727-1	AIEA GULCH WELLS PUMP 2 (	71	55	45	62	25	65
380-115727-3	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP400)	64	54	47	66	23	64

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 570-487444/1-A	Method Blank	79	75	60	83	32	84

Surrogate Summary

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

Job ID: 380-115727-1
SDG: Weekly

Surrogate Legend

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

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

Matrix: Drinking Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

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)
380-115727-1	AIEA GULCH WELLS PUMP 2 (	70	42	41	42	26	46
380-115727-3	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP400)	65	40	42	43	26	46

Surrogate Legend

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

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

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)
380-115753-A-3-A MS	Matrix Spike	63	37	42	29	27	48
380-115753-A-3-B MSD	Matrix Spike Duplicate	68	39	45	31	30	49
LCS 570-487444/2-A	Lab Control Sample	86	45	51	34	39	59
LCSD 570-487444/3-A	Lab Control Sample Dup	85	44	50	33	37	57
MB 570-487444/1-A	Method Blank	84	48	48	52	32	52

Surrogate Legend

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

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

Matrix: Drinking Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (38-134)
		380-115727-1	AIEA GULCH WELLS PUMP 2 (	78
380-115727-3	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP400)	79

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

Surrogate Summary

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

Job ID: 380-115727-1
SDG: Weekly

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)
380-115727-2	TB:AIEA GULCH WELLS P2 (331-203-TP400)	81
380-115727-4	TB: AIEA WELLS PUMPS 1&2 (260) (331-203-TP400)	83
380-115753-B-3 MS	Matrix Spike	92
380-115753-B-3 MSD	Matrix Spike Duplicate	93
LCS 570-489970/1010	Lab Control Sample	95
LCSD 570 489970/12	Lab Control Sample Dup	96
MB 570-489970/11	Method Blank	89
MRL 570-489970/1005	Lab Control Sample	79

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)
380-115727-1	AIEA GULCH WELLS PUMP 2 (331-203-TP400)	115
380-115727-3	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP400)	116

Surrogate Legend

OTCSN = n-Octacosane (Surr)

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	OTCSN1 (60-130)
380-115753-C-3-A MS	Matrix Spike	111
380-115753-C-3-B MSD	Matrix Spike Duplicate	112
LCS 570-488004/2-A	Lab Control Sample	108
LCSD 570-488004/3-A	Lab Control Sample Dup	116
MB 570-488004/1-A	Method Blank	118
MRL 570-488004/4-A	Lab Control Sample	112

Surrogate Legend

OTCSN = n-Octacosane (Surr)

QC Sample Results

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

Job ID: 380-115727-1
SDG: Weekly

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

Lab Sample ID: MB 380-111994/21-A
Matrix: Water
Analysis Batch: 112221

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 111994

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
2,4'-DDD	<0.097		0.097	ug/L		10/06/24 12:09	10/08/24 10:03	1
2,4'-DDE	<0.097		0.097	ug/L		10/06/24 12:09	10/08/24 10:03	1
2,4'-DDT	<0.097		0.097	ug/L		10/06/24 12:09	10/08/24 10:03	1
2,4-Dinitrotoluene	<0.097		0.097	ug/L		10/06/24 12:09	10/08/24 10:03	1
2,6-Dinitrotoluene	<0.097		0.097	ug/L		10/06/24 12:09	10/08/24 10:03	1
4,4'-DDD	<0.097		0.097	ug/L		10/06/24 12:09	10/08/24 10:03	1
4,4'-DDE	<0.097		0.097	ug/L		10/06/24 12:09	10/08/24 10:03	1
4,4'-DDT	<0.097		0.097	ug/L		10/06/24 12:09	10/08/24 10:03	1
Acenaphthene	<0.097		0.097	ug/L		10/06/24 12:09	10/08/24 10:03	1
Acenaphthylene	<0.097		0.097	ug/L		10/06/24 12:09	10/08/24 10:03	1
Acetochlor	<0.097		0.097	ug/L		10/06/24 12:09	10/08/24 10:03	1
Alachlor	<0.048		0.048	ug/L		10/06/24 12:09	10/08/24 10:03	1
alpha-BHC	<0.097		0.097	ug/L		10/06/24 12:09	10/08/24 10:03	1
alpha-Chlordane	<0.048		0.048	ug/L		10/06/24 12:09	10/08/24 10:03	1
Anthracene	<0.019		0.019	ug/L		10/06/24 12:09	10/08/24 10:03	1
Atrazine	<0.048		0.048	ug/L		10/06/24 12:09	10/08/24 10:03	1
Benz(a)anthracene	<0.048		0.048	ug/L		10/06/24 12:09	10/08/24 10:03	1
Benzo[a]pyrene	<0.019		0.019	ug/L		10/06/24 12:09	10/08/24 10:03	1
Benzo[b]fluoranthene	<0.019		0.019	ug/L		10/06/24 12:09	10/08/24 10:03	1
Benzo[g,h,i]perylene	<0.048		0.048	ug/L		10/06/24 12:09	10/08/24 10:03	1
Benzo[k]fluoranthene	<0.019		0.019	ug/L		10/06/24 12:09	10/08/24 10:03	1
beta-BHC	<0.097		0.097	ug/L		10/06/24 12:09	10/08/24 10:03	1
Bis(2-ethylhexyl) phthalate	<0.58		0.58	ug/L		10/06/24 12:09	10/08/24 10:03	1
Aldrin	<0.0097		0.0097	ug/L		10/06/24 12:09	10/08/24 10:03	1
Bromacil	<0.097		0.097	ug/L		10/06/24 12:09	10/08/24 10:03	1
Butachlor	<0.048		0.048	ug/L		10/06/24 12:09	10/08/24 10:03	1
Butylbenzylphthalate	<0.48		0.48	ug/L		10/06/24 12:09	10/08/24 10:03	1
Chlorobenzilate	<0.097		0.097	ug/L		10/06/24 12:09	10/08/24 10:03	1
Chloroneb	<0.097		0.097	ug/L		10/06/24 12:09	10/08/24 10:03	1
Chlorothalonil (Draconil, Bravo)	<0.097		0.097	ug/L		10/06/24 12:09	10/08/24 10:03	1
Chlorpyrifos	<0.048		0.048	ug/L		10/06/24 12:09	10/08/24 10:03	1
Chrysene	<0.019		0.019	ug/L		10/06/24 12:09	10/08/24 10:03	1
delta-BHC	<0.097		0.097	ug/L		10/06/24 12:09	10/08/24 10:03	1
Di(2-ethylhexyl)adipate	<0.58		0.58	ug/L		10/06/24 12:09	10/08/24 10:03	1
Dibenz(a,h)anthracene	<0.048		0.048	ug/L		10/06/24 12:09	10/08/24 10:03	1
Diclorvos (DDVP)	<0.048		0.048	ug/L		10/06/24 12:09	10/08/24 10:03	1
Dieldrin	<0.0097		0.0097	ug/L		10/06/24 12:09	10/08/24 10:03	1
Diethylphthalate	<0.48		0.48	ug/L		10/06/24 12:09	10/08/24 10:03	1
Dimethylphthalate	<0.48		0.48	ug/L		10/06/24 12:09	10/08/24 10:03	1
Di-n-butyl phthalate	<0.97		0.97	ug/L		10/06/24 12:09	10/08/24 10:03	1
Di-n-octyl phthalate	<0.097		0.097	ug/L		10/06/24 12:09	10/08/24 10:03	1
Endosulfan I (Alpha)	<0.097		0.097	ug/L		10/06/24 12:09	10/08/24 10:03	1
Endosulfan II (Beta)	<0.097		0.097	ug/L		10/06/24 12:09	10/08/24 10:03	1
Endosulfan sulfate	<0.097		0.097	ug/L		10/06/24 12:09	10/08/24 10:03	1
Endrin	<0.0097		0.0097	ug/L		10/06/24 12:09	10/08/24 10:03	1
Endrin aldehyde	<0.097		0.097	ug/L		10/06/24 12:09	10/08/24 10:03	1
EPTC	<0.097		0.097	ug/L		10/06/24 12:09	10/08/24 10:03	1
Fluoranthene	<0.097		0.097	ug/L		10/06/24 12:09	10/08/24 10:03	1

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-115727-1
SDG: Weekly

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

Lab Sample ID: MB 380-111994/21-A
Matrix: Water
Analysis Batch: 112221

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 111994

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	<0.048		0.048	ug/L		10/06/24 12:09	10/08/24 10:03	1
gamma-BHC (Lindane)	<0.0097		0.0097	ug/L		10/06/24 12:09	10/08/24 10:03	1
gamma-Chlordane	<0.048		0.048	ug/L		10/06/24 12:09	10/08/24 10:03	1
Heptachlor	<0.0097		0.0097	ug/L		10/06/24 12:09	10/08/24 10:03	1
Heptachlor epoxide (isomer B)	<0.0097		0.0097	ug/L		10/06/24 12:09	10/08/24 10:03	1
Hexachlorobenzene	<0.048		0.048	ug/L		10/06/24 12:09	10/08/24 10:03	1
Hexachlorocyclopentadiene	<0.048		0.048	ug/L		10/06/24 12:09	10/08/24 10:03	1
Indeno[1,2,3-cd]pyrene	<0.048		0.048	ug/L		10/06/24 12:09	10/08/24 10:03	1
Isophorone	<0.097		0.097	ug/L		10/06/24 12:09	10/08/24 10:03	1
Malathion	<0.097		0.097	ug/L		10/06/24 12:09	10/08/24 10:03	1
Methoxychlor	<0.048		0.048	ug/L		10/06/24 12:09	10/08/24 10:03	1
Metolachlor	<0.048		0.048	ug/L		10/06/24 12:09	10/08/24 10:03	1
Molinate	<0.097		0.097	ug/L		10/06/24 12:09	10/08/24 10:03	1
Naphthalene	<0.097		0.097	ug/L		10/06/24 12:09	10/08/24 10:03	1
Parathion	<0.097		0.097	ug/L		10/06/24 12:09	10/08/24 10:03	1
Pendimethalin (Penoxaline)	<0.097		0.097	ug/L		10/06/24 12:09	10/08/24 10:03	1
Phenanthrene	<0.039		0.039	ug/L		10/06/24 12:09	10/08/24 10:03	1
Propachlor	<0.048		0.048	ug/L		10/06/24 12:09	10/08/24 10:03	1
Pyrene	<0.048		0.048	ug/L		10/06/24 12:09	10/08/24 10:03	1
Simazine	<0.048		0.048	ug/L		10/06/24 12:09	10/08/24 10:03	1
Terbacil	<0.097		0.097	ug/L		10/06/24 12:09	10/08/24 10:03	1
Terbutylazine	<0.097		0.097	ug/L		10/06/24 12:09	10/08/24 10:03	1
Thiobencarb	<0.097		0.097	ug/L		10/06/24 12:09	10/08/24 10:03	1
Total Permethrin (mixed isomers)	<0.19		0.19	ug/L		10/06/24 12:09	10/08/24 10:03	1
trans-Nonachlor	<0.048		0.048	ug/L		10/06/24 12:09	10/08/24 10:03	1
Trifluralin	<0.097		0.097	ug/L		10/06/24 12:09	10/08/24 10:03	1
1-Methylnaphthalene	<0.097		0.097	ug/L		10/06/24 12:09	10/08/24 10:03	1
2-Methylnaphthalene	<0.097		0.097	ug/L		10/06/24 12:09	10/08/24 10:03	1

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	10/06/24 12:09	10/08/24 10:03	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	96		70 - 130	10/06/24 12:09	10/08/24 10:03	1
Perylene-d12	88		70 - 130	10/06/24 12:09	10/08/24 10:03	1
Triphenylphosphate	105		70 - 130	10/06/24 12:09	10/08/24 10:03	1

Lab Sample ID: LCS 380-111994/23-A
Matrix: Water
Analysis Batch: 112094

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 111994

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
2,4'-DDD	1.95	2.01		ug/L		103	70 - 130
2,4'-DDE	1.95	2.07		ug/L		106	70 - 130
2,4'-DDT	1.95	1.82		ug/L		94	70 - 130
2,4-Dinitrotoluene	1.95	1.90		ug/L		98	70 - 130
2,6-Dinitrotoluene	1.95	1.89		ug/L		97	70 - 130
4,4'-DDD	1.95	2.01		ug/L		103	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-115727-1
SDG: Weekly

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

Lab Sample ID: LCS 380-111994/23-A
Matrix: Water
Analysis Batch: 112094

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 111994

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDE	1.95	2.03		ug/L		104	70 - 130
4,4'-DDT	1.95	1.83		ug/L		94	70 - 130
Acenaphthene	1.95	1.95		ug/L		100	70 - 130
Acenaphthylene	1.95	1.77		ug/L		91	70 - 130
Acetochlor	1.95	2.06		ug/L		106	70 - 130
Alachlor	1.95	2.07		ug/L		106	70 - 130
alpha-BHC	1.95	2.00		ug/L		103	70 - 130
alpha-Chlordane	1.95	2.13		ug/L		109	70 - 130
Anthracene	1.95	1.60		ug/L		82	70 - 130
Atrazine	1.95	1.94		ug/L		100	70 - 130
Benz(a)anthracene	1.95	1.80		ug/L		92	70 - 130
Benzo[a]pyrene	1.95	1.58		ug/L		81	70 - 130
Benzo[b]fluoranthene	1.95	1.83		ug/L		94	70 - 130
Benzo[g,h,i]perylene	1.95	1.83		ug/L		94	70 - 130
Benzo[k]fluoranthene	1.95	1.91		ug/L		98	70 - 130
beta-BHC	1.95	2.07		ug/L		106	70 - 130
Bis(2-ethylhexyl) phthalate	1.95	1.77		ug/L		91	70 - 130
Aldrin	1.95	1.53		ug/L		79	70 - 130
Bromacil	1.95	1.86		ug/L		96	70 - 130
Butachlor	1.95	1.88		ug/L		96	70 - 130
Butylbenzylphthalate	1.95	1.92		ug/L		99	70 - 130
Chlorobenzilate	1.95	1.41		ug/L		72	70 - 130
Chloroneb	1.95	1.88		ug/L		97	70 - 130
Chlorothalonil (Draconil, Bravo)	1.95	2.03		ug/L		105	70 - 130
Chlorpyrifos	1.95	2.12		ug/L		109	70 - 130
Chrysene	1.95	2.00		ug/L		103	70 - 130
delta-BHC	1.95	2.04		ug/L		105	70 - 130
Di(2-ethylhexyl)adipate	1.95	1.73		ug/L		89	70 - 130
Dibenz(a,h)anthracene	1.95	1.78		ug/L		91	70 - 130
Diclorvos (DDVP)	1.95	1.78		ug/L		92	70 - 130
Dieldrin	1.95	1.89		ug/L		97	70 - 130
Diethylphthalate	1.95	2.02		ug/L		104	70 - 130
Dimethylphthalate	1.95	1.92		ug/L		99	70 - 130
Di-n-butyl phthalate	3.89	3.98		ug/L		102	70 - 130
Di-n-octyl phthalate	1.95	1.72		ug/L		88	70 - 130
Endosulfan I (Alpha)	1.95	1.96		ug/L		101	70 - 130
Endosulfan II (Beta)	1.95	1.86		ug/L		96	70 - 130
Endosulfan sulfate	1.95	1.85		ug/L		95	70 - 130
Endrin	1.95	2.10		ug/L		108	70 - 130
Endrin aldehyde	1.95	1.81		ug/L		93	60 - 130
EPTC	1.95	1.95		ug/L		100	70 - 130
Fluoranthene	1.95	1.99		ug/L		102	70 - 130
Fluorene	1.95	1.96		ug/L		101	70 - 130
gamma-BHC (Lindane)	1.95	1.97		ug/L		101	70 - 130
gamma-Chlordane	1.95	2.10		ug/L		108	70 - 130
Heptachlor	1.95	1.99		ug/L		102	70 - 130
Heptachlor epoxide (isomer B)	1.95	1.98		ug/L		102	70 - 130
Hexachlorobenzene	1.95	1.95		ug/L		100	70 - 130
Hexachlorocyclopentadiene	1.95	1.92		ug/L		99	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-115727-1
SDG: Weekly

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

Lab Sample ID: LCS 380-111994/23-A
Matrix: Water
Analysis Batch: 112094

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 111994

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
Indeno[1,2,3-cd]pyrene	1.95	1.53		ug/L		78	70 - 130	
Isophorone	1.95	1.83		ug/L		94	70 - 130	
Malathion	1.95	1.98		ug/L		101	70 - 130	
Methoxychlor	1.95	1.69		ug/L		87	70 - 130	
Metolachlor	1.95	2.15		ug/L		111	70 - 130	
Molinate	1.95	1.97		ug/L		101	70 - 130	
Naphthalene	1.95	1.82		ug/L		94	70 - 130	
Parathion	1.95	2.21		ug/L		113	70 - 130	
Pendimethalin (Penoxaline)	1.95	1.72		ug/L		88	70 - 130	
Phenanthrene	1.95	1.83		ug/L		94	70 - 130	
Propachlor	1.95	1.99		ug/L		102	70 - 130	
Pyrene	1.95	1.97		ug/L		101	70 - 130	
Simazine	1.95	2.03		ug/L		104	70 - 130	
Terbacil	1.95	2.13		ug/L		110	70 - 130	
Terbutylazine	1.95	2.10		ug/L		108	70 - 130	
Thiobencarb	1.95	1.99		ug/L		102	70 - 130	
trans-Nonachlor	1.95	2.07		ug/L		107	70 - 130	
Trifluralin	1.95	1.62		ug/L		83	70 - 130	
1-Methylnaphthalene	1.95	1.88		ug/L		97	70 - 130	
2-Methylnaphthalene	1.95	1.84		ug/L		95	70 - 130	
		LCS	LCS					
Surrogate		%Recovery	Qualifier				Limits	
2-Nitro-m-xylene		97					70 - 130	
Perylene-d12		84					70 - 130	
Triphenylphosphate		103					70 - 130	

Lab Sample ID: LCSD 380-111994/24-A
Matrix: Water
Analysis Batch: 112094

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 111994

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits			
2,4'-DDD	1.95	2.00		ug/L		103	70 - 130	0	20	
2,4'-DDE	1.95	1.97		ug/L		101	70 - 130	5	20	
2,4'-DDT	1.95	1.69		ug/L		87	70 - 130	7	20	
2,4-Dinitrotoluene	1.95	1.99		ug/L		102	70 - 130	4	20	
2,6-Dinitrotoluene	1.95	2.00		ug/L		102	70 - 130	6	20	
4,4'-DDD	1.95	1.97		ug/L		101	70 - 130	2	20	
4,4'-DDE	1.95	1.84		ug/L		95	70 - 130	10	20	
4,4'-DDT	1.95	1.68		ug/L		86	70 - 130	8	20	
Acenaphthene	1.95	1.98		ug/L		101	70 - 130	2	20	
Acenaphthylene	1.95	1.78		ug/L		91	70 - 130	0	20	
Acetochlor	1.95	2.10		ug/L		108	70 - 130	2	20	
Alachlor	1.95	2.12		ug/L		109	70 - 130	2	20	
alpha-BHC	1.95	2.03		ug/L		104	70 - 130	1	20	
alpha-Chlordane	1.95	2.13		ug/L		109	70 - 130	0	20	
Anthracene	1.95	1.62		ug/L		83	70 - 130	1	20	
Atrazine	1.95	1.93		ug/L		99	70 - 130	0	20	
Benz(a)anthracene	1.95	1.77		ug/L		91	70 - 130	2	20	

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-115727-1
SDG: Weekly

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

Lab Sample ID: LCSD 380-111994/24-A
Matrix: Water
Analysis Batch: 112094

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 111994

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	RPD Limit
							Limits	RPD		
Benzo[a]pyrene	1.95	1.71		ug/L		88	70 - 130	8	20	
Benzo[b]fluoranthene	1.95	2.03		ug/L		104	70 - 130	10	20	
Benzo[g,h,i]perylene	1.95	1.64		ug/L		84	70 - 130	11	20	
Benzo[k]fluoranthene	1.95	2.01		ug/L		103	70 - 130	5	20	
beta-BHC	1.95	2.06		ug/L		106	70 - 130	0	20	
Bis(2-ethylhexyl) phthalate	1.95	1.62		ug/L		83	70 - 130	9	20	
Aldrin	1.95	1.56		ug/L		80	70 - 130	2	20	
Bromacil	1.95	1.95		ug/L		100	70 - 130	4	20	
Butachlor	1.95	1.93		ug/L		99	70 - 130	3	20	
Butylbenzylphthalate	1.95	1.95		ug/L		100	70 - 130	2	20	
Chlorobenzilate	1.95	1.89	*1	ug/L		97	70 - 130	29	20	
Chloroneb	1.95	1.92		ug/L		99	70 - 130	2	20	
Chlorothalonil (Draconil, Bravo)	1.95	2.08		ug/L		107	70 - 130	2	20	
Chlorpyrifos	1.95	2.12		ug/L		109	70 - 130	0	20	
Chrysene	1.95	2.22		ug/L		114	70 - 130	11	20	
delta-BHC	1.95	2.06		ug/L		106	70 - 130	1	20	
Di(2-ethylhexyl)adipate	1.95	1.37	*1	ug/L		70	70 - 130	23	20	
Dibenz(a,h)anthracene	1.95	1.52		ug/L		78	70 - 130	16	20	
Diclorvos (DDVP)	1.95	1.83		ug/L		94	70 - 130	2	20	
Dieldrin	1.95	1.98		ug/L		102	70 - 130	5	20	
Diethylphthalate	1.95	2.05		ug/L		105	70 - 130	2	20	
Dimethylphthalate	1.95	1.95		ug/L		100	70 - 130	2	20	
Di-n-butyl phthalate	3.89	3.99		ug/L		102	70 - 130	0	20	
Di-n-octyl phthalate	1.95	1.46		ug/L		75	70 - 130	16	20	
Endosulfan I (Alpha)	1.95	1.99		ug/L		102	70 - 130	2	20	
Endosulfan II (Beta)	1.95	1.94		ug/L		100	70 - 130	4	20	
Endosulfan sulfate	1.95	1.89		ug/L		97	70 - 130	2	20	
Endrin	1.95	2.11		ug/L		109	70 - 130	1	20	
Endrin aldehyde	1.95	1.84		ug/L		95	60 - 130	2	20	
EPTC	1.95	1.97		ug/L		101	70 - 130	1	20	
Fluoranthene	1.95	2.05		ug/L		106	70 - 130	3	20	
Fluorene	1.95	1.99		ug/L		102	70 - 130	2	20	
gamma-BHC (Lindane)	1.95	1.95		ug/L		100	70 - 130	1	20	
gamma-Chlordane	1.95	2.05		ug/L		105	70 - 130	2	20	
Heptachlor	1.95	1.99		ug/L		102	70 - 130	0	20	
Heptachlor epoxide (isomer B)	1.95	2.00		ug/L		103	70 - 130	1	20	
Hexachlorobenzene	1.95	1.96		ug/L		101	70 - 130	1	20	
Hexachlorocyclopentadiene	1.95	1.94		ug/L		100	70 - 130	1	20	
Indeno[1,2,3-cd]pyrene	1.95	1.41		ug/L		72	70 - 130	8	20	
Isophorone	1.95	1.86		ug/L		95	70 - 130	1	20	
Malathion	1.95	2.05		ug/L		105	70 - 130	4	20	
Methoxychlor	1.95	2.10	*1	ug/L		108	70 - 130	21	20	
Metolachlor	1.95	2.19		ug/L		113	70 - 130	2	20	
Molinate	1.95	1.97		ug/L		101	70 - 130	0	20	
Naphthalene	1.95	1.86		ug/L		96	70 - 130	2	20	
Parathion	1.95	2.28		ug/L		117	70 - 130	3	20	
Pendimethalin (Penoxaline)	1.95	1.78		ug/L		91	70 - 130	3	20	
Phenanthrene	1.95	1.89		ug/L		97	70 - 130	3	20	
Propachlor	1.95	2.03		ug/L		104	70 - 130	2	20	

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-115727-1
SDG: Weekly

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

Lab Sample ID: LCSD 380-111994/24-A
Matrix: Water
Analysis Batch: 112094

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 111994

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Pyrene	1.95	2.02		ug/L		104	70 - 130	2	20
Simazine	1.95	2.02		ug/L		104	70 - 130	1	20
Terbacil	1.95	2.20		ug/L		113	70 - 130	3	20
Terbutylazine	1.95	2.12		ug/L		109	70 - 130	1	20
Thiobencarb	1.95	2.04		ug/L		105	70 - 130	2	20
trans-Nonachlor	1.95	2.00		ug/L		103	70 - 130	4	20
Trifluralin	1.95	1.70		ug/L		87	70 - 130	5	20
1-Methylnaphthalene	1.95	1.93		ug/L		99	70 - 130	3	20
2-Methylnaphthalene	1.95	1.87		ug/L		96	70 - 130	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
2-Nitro-m-xylene	97		70 - 130
Perylene-d12	75		70 - 130
Triphenylphosphate	103		70 - 130

Lab Sample ID: MRL 380-111994/22-A
Matrix: Water
Analysis Batch: 112094

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 111994

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
2,4'-DDD	0.0975	0.0902	J	ug/L		93	50 - 150
2,4'-DDE	0.0975	0.0995		ug/L		102	50 - 150
2,4'-DDT	0.0975	0.0965	J	ug/L		99	50 - 150
2,4-Dinitrotoluene	0.0975	0.107		ug/L		110	50 - 150
2,6-Dinitrotoluene	0.0975	0.109		ug/L		112	50 - 150
4,4'-DDD	0.0975	0.0972		ug/L		100	50 - 150
4,4'-DDE	0.0975	0.0991		ug/L		102	50 - 150
4,4'-DDT	0.0975	0.0958	J	ug/L		98	50 - 150
Acenaphthene	0.0975	0.0967	J	ug/L		99	50 - 150
Acenaphthylene	0.0975	0.0819	J	ug/L		84	50 - 150
Acetochlor	0.0975	0.110		ug/L		113	50 - 150
Alachlor	0.0487	0.0510		ug/L		105	50 - 150
alpha-BHC	0.0975	0.105		ug/L		108	50 - 150
alpha-Chlordane	0.0244	<0.028		ug/L		101	50 - 150
Anthracene	0.0195	0.0195		ug/L		100	50 - 150
Atrazine	0.0487	0.0509		ug/L		104	50 - 150
Benz(a)anthracene	0.0487	0.0482	J	ug/L		99	50 - 150
Benzo[a]pyrene	0.0195	0.0155	J	ug/L		80	50 - 150
Benzo[b]fluoranthene	0.0195	0.0169	J	ug/L		87	50 - 150
Benzo[g,h,i]perylene	0.0487	0.0339	J	ug/L		70	50 - 150
Benzo[k]fluoranthene	0.0195	0.0177	J	ug/L		91	50 - 150
beta-BHC	0.0975	0.110		ug/L		113	50 - 150
Bis(2-ethylhexyl) phthalate	0.585	0.514	J	ug/L		88	50 - 150
Aldrin	0.00975	<0.0097		ug/L		87	50 - 150
Bromacil	0.0975	0.0969	J	ug/L		99	50 - 150
Butachlor	0.0487	0.0599		ug/L		123	50 - 150
Butylbenzylphthalate	0.487	0.465	J	ug/L		95	50 - 150
Chlorobenzilate	0.0975	0.0849	J	ug/L		87	50 - 150

QC Sample Results

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

Job ID: 380-115727-1
SDG: Weekly

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

Lab Sample ID: MRL 380-111994/22-A
Matrix: Water
Analysis Batch: 112094

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 111994

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chloroneb	0.0975	0.0834	J	ug/L		86	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0975	0.106		ug/L		109	50 - 150
Chlorpyrifos	0.0487	0.0507		ug/L		104	50 - 150
Chrysene	0.0195	0.0216		ug/L		111	50 - 150
delta-BHC	0.0975	0.109		ug/L		112	50 - 150
Di(2-ethylhexyl)adipate	0.585	0.505	J	ug/L		86	50 - 150
Dibenz(a,h)anthracene	0.0487	0.0342	J	ug/L		70	50 - 150
Diclorvos (DDVP)	0.0487	0.0493		ug/L		101	50 - 150
Dieldrin	0.00975	0.0128		ug/L		132	50 - 150
Diethylphthalate	0.487	0.503		ug/L		103	50 - 150
Dimethylphthalate	0.487	0.488	J	ug/L		100	50 - 150
Di-n-butyl phthalate	0.487	0.475	J	ug/L		97	49 - 243
Di-n-octyl phthalate	0.0975	0.0644	J	ug/L		66	50 - 150
Endosulfan I (Alpha)	0.0975	0.0887	J	ug/L		91	50 - 150
Endosulfan II (Beta)	0.0975	0.111		ug/L		114	50 - 150
Endosulfan sulfate	0.0975	0.0938	J	ug/L		96	50 - 150
Endrin	0.00975	0.0110		ug/L		112	50 - 150
Endrin aldehyde	0.0975	0.0889	J	ug/L		91	50 - 150
EPTC	0.0975	0.0910	J	ug/L		93	50 - 150
Fluoranthene	0.0975	0.0931	J	ug/L		96	50 - 150
Fluorene	0.0487	0.0505		ug/L		104	50 - 150
gamma-BHC (Lindane)	0.00975	0.0141		ug/L		144	50 - 150
gamma-Chlordane	0.0244	0.0241	J	ug/L		99	50 - 150
Heptachlor	0.00975	0.0114		ug/L		117	50 - 150
Heptachlor epoxide (isomer B)	0.00975	0.0140		ug/L		144	50 - 150
Hexachlorobenzene	0.0487	0.0487	J	ug/L		100	50 - 150
Hexachlorocyclopentadiene	0.0487	0.0463	J	ug/L		95	50 - 150
Indeno[1,2,3-cd]pyrene	0.0487	0.0269	J	ug/L		55	50 - 150
Isophorone	0.0975	0.110		ug/L		112	50 - 150
Malathion	0.0975	0.105		ug/L		107	50 - 150
Methoxychlor	0.0487	0.0585		ug/L		120	50 - 150
Metolachlor	0.0487	0.0537		ug/L		110	50 - 150
Molinate	0.0975	0.0959	J	ug/L		98	50 - 150
Naphthalene	0.0975	0.103		ug/L		105	50 - 150
Parathion	0.0975	0.101		ug/L		104	50 - 150
Pendimethalin (Penoxaline)	0.0975	0.0791	J	ug/L		81	50 - 150
Phenanthrene	0.0390	0.0418		ug/L		107	50 - 150
Propachlor	0.0487	0.0528		ug/L		108	50 - 150
Pyrene	0.0487	0.0454	J	ug/L		93	50 - 150
Simazine	0.0487	0.0461	J	ug/L		95	50 - 150
Terbacil	0.0975	0.104		ug/L		107	50 - 150
Terbutylazine	0.0975	0.0992		ug/L		102	50 - 150
Thiobencarb	0.0975	0.0931	J	ug/L		95	50 - 150
trans-Nonachlor	0.0244	<0.025		ug/L		90	50 - 150
Trifluralin	0.0975	0.0873	J	ug/L		90	50 - 150
1-Methylnaphthalene	0.0975	0.102		ug/L		105	50 - 150
2-Methylnaphthalene	0.0975	0.0960	J	ug/L		98	50 - 150

QC Sample Results

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

Job ID: 380-115727-1
SDG: Weekly

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

Lab Sample ID: MRL 380-111994/22-A
Matrix: Water
Analysis Batch: 112094

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 111994

Surrogate	MRL %Recovery	MRL Qualifier	Limits
2-Nitro-m-xylene	96		70 - 130
Perylene-d12	73		70 - 130
Triphenylphosphate	99		70 - 130

Lab Sample ID: 380-115709-B-1-A MSD
Matrix: Water
Analysis Batch: 112094

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 111994

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
									Limits	RPD		
2,4'-DDD	<0.097		1.96	2.08		ug/L		106	70 - 130	1	20	
2,4'-DDE	<0.097		1.96	2.11		ug/L		108	70 - 130	2	20	
2,4'-DDT	<0.097		1.96	1.94		ug/L		99	70 - 130	3	20	
2,4-Dinitrotoluene	<0.097		1.96	2.14		ug/L		109	70 - 130	0	20	
2,6-Dinitrotoluene	<0.097		1.96	2.07		ug/L		106	70 - 130	1	20	
4,4'-DDD	<0.097		1.96	2.07		ug/L		106	70 - 130	1	20	
4,4'-DDE	<0.097		1.96	2.06		ug/L		105	70 - 130	3	20	
4,4'-DDT	<0.097		1.96	1.98		ug/L		101	70 - 130	2	20	
Acenaphthene	<0.097		1.96	2.00		ug/L		102	70 - 130	0	20	
Acenaphthylene	<0.097		1.96	1.86		ug/L		95	70 - 130	1	20	
Acetochlor	<0.097		1.96	2.15		ug/L		110	70 - 130	1	20	
Alachlor	<0.049		1.96	2.11		ug/L		108	70 - 130	1	20	
alpha-BHC	<0.097		1.96	2.06		ug/L		105	70 - 130	1	20	
alpha-Chlordane	<0.049		1.96	2.19		ug/L		112	70 - 130	2	20	
Anthracene	<0.019	F1	1.96	1.24	F1	ug/L		63	70 - 130	9	20	
Atrazine	<0.049		1.96	1.97		ug/L		101	70 - 130	2	20	
Benz(a)anthracene	<0.049		1.96	1.81		ug/L		92	70 - 130	1	20	
Benzo[a]pyrene	<0.019		1.96	1.57		ug/L		80	70 - 130	4	20	
Benzo[b]fluoranthene	<0.019		1.96	1.96		ug/L		100	70 - 130	0	20	
Benzo[g,h,i]perylene	<0.049		1.96	1.93		ug/L		99	70 - 130	1	20	
Benzo[k]fluoranthene	<0.019		1.96	1.98		ug/L		101	70 - 130	1	20	
beta-BHC	<0.097		1.96	2.12		ug/L		108	70 - 130	0	20	
Bis(2-ethylhexyl) phthalate	<0.58		1.96	1.67		ug/L		85	70 - 130	4	20	
Aldrin	<0.0097		1.96	1.65		ug/L		84	70 - 130	3	20	
Bromacil	<0.097		1.96	1.99		ug/L		102	70 - 130	3	20	
Butachlor	<0.049		1.96	1.96		ug/L		100	70 - 130	0	20	
Butylbenzylphthalate	<0.49		1.96	1.97		ug/L		100	70 - 130	0	20	
Chlorobenzilate	<0.097	*1	1.96	1.90		ug/L		97	70 - 130	2	20	
Chloroneb	<0.097		1.96	1.96		ug/L		100	70 - 130	1	20	
Chlorothalonil (Draconil, Bravo)	<0.097		1.96	2.08		ug/L		106	70 - 130	2	20	
Chlorpyrifos	<0.049		1.96	2.17		ug/L		111	70 - 130	0	20	
Chrysene	<0.019		1.96	2.04		ug/L		104	70 - 130	1	20	
delta-BHC	<0.097		1.96	2.07		ug/L		106	70 - 130	2	20	
Di(2-ethylhexyl)adipate	<0.58	*1	1.96	1.69		ug/L		86	70 - 130	5	20	
Dibenz(a,h)anthracene	<0.049		1.96	1.86		ug/L		95	70 - 130	1	20	
Diclorvos (DDVP)	<0.049		1.96	1.89		ug/L		96	70 - 130	1	20	
Dieldrin	<0.0097		1.96	2.02		ug/L		103	70 - 130	0	20	
Diethylphthalate	<0.49		1.96	2.07		ug/L		106	70 - 130	0	20	
Dimethylphthalate	<0.49		1.96	1.97		ug/L		101	70 - 130	0	20	

QC Sample Results

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

Job ID: 380-115727-1
SDG: Weekly

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

Lab Sample ID: 380-115709-B-1-A MSD
Matrix: Water
Analysis Batch: 112094

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 111994

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Di-n-butyl phthalate	<0.97		3.92	4.03		ug/L		103	70 - 130	1	20
Di-n-octyl phthalate	<0.097		1.96	1.55		ug/L		79	70 - 130	10	20
Endosulfan I (Alpha)	<0.097		1.96	2.04		ug/L		104	70 - 130	1	20
Endosulfan II (Beta)	<0.097		1.96	2.00		ug/L		102	70 - 130	1	20
Endosulfan sulfate	<0.097		1.96	1.99		ug/L		101	70 - 130	1	20
Endrin	<0.0097		1.96	2.15		ug/L		110	70 - 130	0	20
Endrin aldehyde	<0.097		1.96	1.75		ug/L		89	60 - 130	3	20
EPTC	<0.097		1.96	1.98		ug/L		101	70 - 130	1	20
Fluoranthene	<0.097		1.96	2.05		ug/L		105	70 - 130	1	20
Fluorene	<0.049		1.96	2.03		ug/L		103	70 - 130	1	20
gamma-BHC (Lindane)	<0.0097		1.96	2.00		ug/L		102	70 - 130	0	20
gamma-Chlordane	<0.049		1.96	2.18		ug/L		111	70 - 130	2	20
Heptachlor	<0.0097		1.96	2.01		ug/L		102	70 - 130	1	20
Heptachlor epoxide (isomer B)	<0.0097		1.96	2.04		ug/L		104	70 - 130	2	20
Hexachlorobenzene	<0.049		1.96	2.04		ug/L		104	70 - 130	0	20
Hexachlorocyclopentadiene	<0.049		1.96	2.07		ug/L		106	70 - 130	1	20
Indeno[1,2,3-cd]pyrene	<0.049		1.96	1.71		ug/L		87	70 - 130	2	20
Isophorone	<0.097		1.96	1.87		ug/L		96	70 - 130	1	20
Malathion	<0.097		1.96	2.06		ug/L		105	70 - 130	1	20
Methoxychlor	<0.049	*1	1.96	1.88		ug/L		96	70 - 130	0	20
Metolachlor	<0.049		1.96	2.21		ug/L		113	70 - 130	1	20
Molinate	<0.097		1.96	1.99		ug/L		102	70 - 130	0	20
Naphthalene	<0.097		1.96	1.87		ug/L		95	70 - 130	1	20
Parathion	<0.097		1.96	2.42		ug/L		123	70 - 130	1	20
Pendimethalin (Penoxaline)	<0.097		1.96	1.96		ug/L		100	70 - 130	2	20
Phenanthrene	<0.039		1.96	1.88		ug/L		96	70 - 130	0	20
Propachlor	<0.049		1.96	2.02		ug/L		103	70 - 130	1	20
Pyrene	<0.049		1.96	2.01		ug/L		103	70 - 130	0	20
Simazine	<0.049		1.96	2.10		ug/L		107	70 - 130	0	20
Terbacil	<0.097		1.96	2.28		ug/L		117	70 - 130	2	20
Terbutylazine	<0.097		1.96	2.17		ug/L		111	70 - 130	1	20
Thiobencarb	<0.097		1.96	2.01		ug/L		103	70 - 130	1	20
trans-Nonachlor	<0.049		1.96	2.16		ug/L		110	70 - 130	3	20
Trifluralin	<0.097		1.96	1.81		ug/L		93	70 - 130	1	20
1-Methylnaphthalene	<0.097		1.96	1.93		ug/L		98	70 - 130	0	20
2-Methylnaphthalene	<0.097		1.96	1.89		ug/L		96	70 - 130	0	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Nitro-m-xylene	96		70 - 130
Perylene-d12	89		70 - 130
Triphenylphosphate	103		70 - 130

Lab Sample ID: 380-115709-C-1-A MS
Matrix: Water
Analysis Batch: 112094

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 111994

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
2,4'-DDD	<0.097		1.96	2.11		ug/L		107	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-115727-1
SDG: Weekly

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

Lab Sample ID: 380-115709-C-1-A MS
Matrix: Water
Analysis Batch: 112094

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 111994

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
2,4'-DDE	<0.097		1.96	2.14		ug/L		109	70 - 130
2,4'-DDT	<0.097		1.96	2.00		ug/L		102	70 - 130
2,4-Dinitrotoluene	<0.097		1.96	2.14		ug/L		109	70 - 130
2,6-Dinitrotoluene	<0.097		1.96	2.09		ug/L		106	70 - 130
4,4'-DDD	<0.097		1.96	2.08		ug/L		106	70 - 130
4,4'-DDE	<0.097		1.96	2.12		ug/L		108	70 - 130
4,4'-DDT	<0.097		1.96	2.02		ug/L		103	70 - 130
Acenaphthene	<0.097		1.96	2.00		ug/L		102	70 - 130
Acenaphthylene	<0.097		1.96	1.83		ug/L		93	70 - 130
Acetochlor	<0.097		1.96	2.13		ug/L		109	70 - 130
Alachlor	<0.049		1.96	2.14		ug/L		109	70 - 130
alpha-BHC	<0.097		1.96	2.04		ug/L		104	70 - 130
alpha-Chlordane	<0.049		1.96	2.23		ug/L		114	70 - 130
Anthracene	<0.019	F1	1.96	1.13	F1	ug/L		58	70 - 130
Atrazine	<0.049		1.96	2.01		ug/L		103	70 - 130
Benz(a)anthracene	<0.049		1.96	1.82		ug/L		93	70 - 130
Benzo[a]pyrene	<0.019		1.96	1.52		ug/L		77	70 - 130
Benzo[b]fluoranthene	<0.019		1.96	1.95		ug/L		99	70 - 130
Benzo[g,h,i]perylene	<0.049		1.96	1.92		ug/L		98	70 - 130
Benzo[k]fluoranthene	<0.019		1.96	2.00		ug/L		102	70 - 130
beta-BHC	<0.097		1.96	2.12		ug/L		108	70 - 130
Bis(2-ethylhexyl) phthalate	<0.58		1.96	1.74		ug/L		88	70 - 130
Aldrin	<0.0097		1.96	1.61		ug/L		82	70 - 130
Bromacil	<0.097		1.96	2.05		ug/L		104	70 - 130
Butachlor	<0.049		1.96	1.96		ug/L		100	70 - 130
Butylbenzylphthalate	<0.49		1.96	1.96		ug/L		100	70 - 130
Chlorobenzilate	<0.097	*1	1.96	1.85		ug/L		95	70 - 130
Chloroneb	<0.097		1.96	1.97		ug/L		100	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.097		1.96	2.12		ug/L		108	70 - 130
Chlorpyrifos	<0.049		1.96	2.16		ug/L		110	70 - 130
Chrysene	<0.019		1.96	2.03		ug/L		104	70 - 130
delta-BHC	<0.097		1.96	2.12		ug/L		108	70 - 130
Di(2-ethylhexyl)adipate	<0.58	*1	1.96	1.78		ug/L		91	70 - 130
Dibenz(a,h)anthracene	<0.049		1.96	1.88		ug/L		96	70 - 130
Diclorvos (DDVP)	<0.049		1.96	1.88		ug/L		96	70 - 130
Dieldrin	<0.0097		1.96	2.01		ug/L		103	70 - 130
Diethylphthalate	<0.49		1.96	2.06		ug/L		105	70 - 130
Dimethylphthalate	<0.49		1.96	1.97		ug/L		100	70 - 130
Di-n-butyl phthalate	<0.97		3.92	4.01		ug/L		102	70 - 130
Di-n-octyl phthalate	<0.097		1.96	1.70		ug/L		87	70 - 130
Endosulfan I (Alpha)	<0.097		1.96	2.01		ug/L		103	70 - 130
Endosulfan II (Beta)	<0.097		1.96	1.98		ug/L		101	70 - 130
Endosulfan sulfate	<0.097		1.96	2.01		ug/L		102	70 - 130
Endrin	<0.0097		1.96	2.14		ug/L		109	70 - 130
Endrin aldehyde	<0.097		1.96	1.80		ug/L		92	60 - 130
EPTC	<0.097		1.96	1.99		ug/L		101	70 - 130
Fluoranthene	<0.097		1.96	2.08		ug/L		106	70 - 130
Fluorene	<0.049		1.96	2.02		ug/L		103	70 - 130
gamma-BHC (Lindane)	<0.0097		1.96	2.01		ug/L		103	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-115727-1
SDG: Weekly

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

Lab Sample ID: 380-115709-C-1-A MS
Matrix: Water
Analysis Batch: 112094

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 111994

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec
	Result	Qualifier	Added	Result	Qualifier					Limits
gamma-Chlordane	<0.049		1.96	2.22		ug/L		113	70 - 130
Heptachlor	<0.0097		1.96	2.03		ug/L		104	70 - 130
Heptachlor epoxide (isomer B)	<0.0097		1.96	2.08		ug/L		106	70 - 130
Hexachlorobenzene	<0.049		1.96	2.04		ug/L		104	70 - 130
Hexachlorocyclopentadiene	<0.049		1.96	2.05		ug/L		105	70 - 130
Indeno[1,2,3-cd]pyrene	<0.049		1.96	1.74		ug/L		89	70 - 130
Isophorone	<0.097		1.96	1.85		ug/L		95	70 - 130
Malathion	<0.097		1.96	2.09		ug/L		106	70 - 130
Methoxychlor	<0.049	*1	1.96	1.88		ug/L		96	70 - 130
Metolachlor	<0.049		1.96	2.23		ug/L		114	70 - 130
Molinate	<0.097		1.96	2.00		ug/L		102	70 - 130
Naphthalene	<0.097		1.96	1.85		ug/L		95	70 - 130
Parathion	<0.097		1.96	2.45		ug/L		125	70 - 130
Pendimethalin (Penoxaline)	<0.097		1.96	2.01		ug/L		102	70 - 130
Phenanthrene	<0.039		1.96	1.88		ug/L		96	70 - 130
Propachlor	<0.049		1.96	2.04		ug/L		104	70 - 130
Pyrene	<0.049		1.96	2.02		ug/L		103	70 - 130
Simazine	<0.049		1.96	2.10		ug/L		107	70 - 130
Terbacil	<0.097		1.96	2.25		ug/L		115	70 - 130
Terbutylazine	<0.097		1.96	2.19		ug/L		112	70 - 130
Thiobencarb	<0.097		1.96	2.04		ug/L		104	70 - 130
trans-Nonachlor	<0.049		1.96	2.23		ug/L		114	70 - 130
Trifluralin	<0.097		1.96	1.83		ug/L		93	70 - 130
1-Methylnaphthalene	<0.097		1.96	1.92		ug/L		98	70 - 130
2-Methylnaphthalene	<0.097		1.96	1.88		ug/L		96	70 - 130

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	97		70 - 130
Perylene-d12	91		70 - 130
Triphenylphosphate	105		70 - 130

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

Lab Sample ID: MB 570-487444/1-A
Matrix: Water
Analysis Batch: 491128

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 487444

Tentatively Identified Compound	MB	MB	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
	Est. Result	Qualifier							
Tentatively Identified Compound	None		ug/L			N/A	10/03/24 09:59	10/14/24 11:03	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4,6-Tribromophenol (Surr)	79		33 - 139	10/03/24 09:59	10/14/24 11:03	1
2-Fluorobiphenyl (Surr)	75		33 - 126	10/03/24 09:59	10/14/24 11:03	1
2-Fluorophenol (Surr)	60		12 - 120	10/03/24 09:59	10/14/24 11:03	1
Nitrobenzene-d5 (Surr)	83		36 - 120	10/03/24 09:59	10/14/24 11:03	1
Phenol-d6 (Surr)	32		10 - 120	10/03/24 09:59	10/14/24 11:03	1
p-Terphenyl-d14 (Surr)	84		47 - 131	10/03/24 09:59	10/14/24 11:03	1

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-115727-1
SDG: Weekly

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

Lab Sample ID: MB 570-487444/1-A
Matrix: Water
Analysis Batch: 487832

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 487444

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.20		0.20	ug/L		10/03/24 09:59	10/04/24 11:28	1
2-Methylnaphthalene	<0.20		0.20	ug/L		10/03/24 09:59	10/04/24 11:28	1
Acenaphthene	<0.20		0.20	ug/L		10/03/24 09:59	10/04/24 11:28	1
Acenaphthylene	<0.20		0.20	ug/L		10/03/24 09:59	10/04/24 11:28	1
Benzo[a]anthracene	<0.20		0.20	ug/L		10/03/24 09:59	10/04/24 11:28	1
Benzo[a]pyrene	<0.20		0.20	ug/L		10/03/24 09:59	10/04/24 11:28	1
Benzo[b]fluoranthene	<0.20		0.20	ug/L		10/03/24 09:59	10/04/24 11:28	1
Benzo[g,h,i]perylene	<0.20		0.20	ug/L		10/03/24 09:59	10/04/24 11:28	1
Benzo[k]fluoranthene	<0.20		0.20	ug/L		10/03/24 09:59	10/04/24 11:28	1
Chrysene	<0.20		0.20	ug/L		10/03/24 09:59	10/04/24 11:28	1
Dibenz(a,h)anthracene	<0.20		0.20	ug/L		10/03/24 09:59	10/04/24 11:28	1
Fluoranthene	<0.20		0.20	ug/L		10/03/24 09:59	10/04/24 11:28	1
Fluorene	<0.20		0.20	ug/L		10/03/24 09:59	10/04/24 11:28	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20	ug/L		10/03/24 09:59	10/04/24 11:28	1
Naphthalene	<0.20		0.20	ug/L		10/03/24 09:59	10/04/24 11:28	1
Phenanthrene	<0.20		0.20	ug/L		10/03/24 09:59	10/04/24 11:28	1
Pyrene	<0.20		0.20	ug/L		10/03/24 09:59	10/04/24 11:28	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	84		28 - 127	10/03/24 09:59	10/04/24 11:28	1
2-Fluorobiphenyl (Surr)	48		31 - 120	10/03/24 09:59	10/04/24 11:28	1
2-Fluorophenol (Surr)	48		17 - 120	10/03/24 09:59	10/04/24 11:28	1
Nitrobenzene-d5 (Surr)	52		27 - 120	10/03/24 09:59	10/04/24 11:28	1
Phenol-d6 (Surr)	32		10 - 120	10/03/24 09:59	10/04/24 11:28	1
p-Terphenyl-d14 (Surr)	52		45 - 120	10/03/24 09:59	10/04/24 11:28	1

Lab Sample ID: LCS 570-487444/2-A
Matrix: Water
Analysis Batch: 487832

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 487444

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1-Methylnaphthalene	40.0	27.3		ug/L		68	47 - 120
2-Methylnaphthalene	40.0	27.0		ug/L		67	43 - 120
Acenaphthene	40.0	34.7		ug/L		87	60 - 132
Acenaphthylene	40.0	36.0		ug/L		90	54 - 126
Benzo[a]anthracene	40.0	41.4		ug/L		104	42 - 133
Benzo[a]pyrene	40.0	44.5		ug/L		111	32 - 148
Benzo[b]fluoranthene	40.0	42.9		ug/L		107	42 - 140
Benzo[g,h,i]perylene	40.0	40.7		ug/L		102	1 - 195
Benzo[k]fluoranthene	40.0	41.7		ug/L		104	25 - 146
Chrysene	40.0	39.8		ug/L		99	44 - 140
Dibenz(a,h)anthracene	40.0	41.0		ug/L		102	1 - 200
Fluoranthene	40.0	41.2		ug/L		103	43 - 121
Fluorene	40.0	37.6		ug/L		94	70 - 120
Indeno[1,2,3-cd]pyrene	40.0	41.3		ug/L		103	1 - 151
Naphthalene	40.0	23.6		ug/L		59	36 - 120
Phenanthrene	40.0	38.7		ug/L		97	65 - 120
Pyrene	40.0	39.1		ug/L		98	70 - 120

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-115727-1
SDG: Weekly

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

Lab Sample ID: LCS 570-487444/2-A
Matrix: Water
Analysis Batch: 487832

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 487444

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	86		28 - 127
2-Fluorobiphenyl (Surr)	45		31 - 120
2-Fluorophenol (Surr)	51		17 - 120
Nitrobenzene-d5 (Surr)	34		27 - 120
Phenol-d6 (Surr)	39		10 - 120
p-Terphenyl-d14 (Surr)	59		45 - 120

Lab Sample ID: LCSD 570-487444/3-A
Matrix: Water
Analysis Batch: 487832

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 487444

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
1-Methylnaphthalene	40.0	26.0		ug/L		65	47 - 120	5	20	
2-Methylnaphthalene	40.0	26.0		ug/L		65	43 - 120	4	20	
Acenaphthene	40.0	36.0		ug/L		90	60 - 132	4	29	
Acenaphthylene	40.0	37.0		ug/L		93	54 - 126	3	45	
Benzo[a]anthracene	40.0	41.7		ug/L		104	42 - 133	1	32	
Benzo[a]pyrene	40.0	45.4		ug/L		113	32 - 148	2	43	
Benzo[b]fluoranthene	40.0	42.6		ug/L		107	42 - 140	1	43	
Benzo[g,h,i]perylene	40.0	42.1		ug/L		105	1 - 195	3	61	
Benzo[k]fluoranthene	40.0	42.6		ug/L		107	25 - 146	2	38	
Chrysene	40.0	39.6		ug/L		99	44 - 140	0	53	
Dibenz(a,h)anthracene	40.0	42.4		ug/L		106	1 - 200	4	75	
Fluoranthene	40.0	41.9		ug/L		105	43 - 121	2	40	
Fluorene	40.0	38.4		ug/L		96	70 - 120	2	23	
Indeno[1,2,3-cd]pyrene	40.0	42.5		ug/L		106	1 - 151	3	60	
Naphthalene	40.0	23.4		ug/L		58	36 - 120	1	39	
Phenanthrene	40.0	39.2		ug/L		98	65 - 120	1	24	
Pyrene	40.0	38.7		ug/L		97	70 - 120	1	30	

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	85		28 - 127
2-Fluorobiphenyl (Surr)	44		31 - 120
2-Fluorophenol (Surr)	50		17 - 120
Nitrobenzene-d5 (Surr)	33		27 - 120
Phenol-d6 (Surr)	37		10 - 120
p-Terphenyl-d14 (Surr)	57		45 - 120

Lab Sample ID: 380-115753-A-3-A MS
Matrix: Water
Analysis Batch: 488403

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 487444

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec	
				Result	Qualifier				Limits	RPD
1-Methylnaphthalene	<0.19		38.2	20.7		ug/L		54	36 - 120	
2-Methylnaphthalene	<0.19		38.2	20.5		ug/L		54	32 - 124	
Acenaphthene	<0.19		38.2	27.6		ug/L		72	47 - 145	
Acenaphthylene	<0.19		38.2	28.2		ug/L		74	33 - 145	
Benzo[a]anthracene	<0.19		38.2	32.6		ug/L		85	33 - 143	

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-115727-1
SDG: Weekly

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

Lab Sample ID: 380-115753-A-3-A MS
Matrix: Water
Analysis Batch: 488403

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 487444

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	Limits	
	Result	Qualifier	Added	Result	Qualifier						
Benzo[a]pyrene	<0.19		38.2	33.8		ug/L		89	17 - 163		
Benzo[b]fluoranthene	<0.19		38.2	32.8		ug/L		86	24 - 159		
Benzo[g,h,i]perylene	<0.19		38.2	33.3		ug/L		87	1 - 219		
Benzo[k]fluoranthene	<0.19		38.2	32.7		ug/L		86	11 - 162		
Chrysene	<0.19		38.2	30.9		ug/L		81	17 - 168		
Dibenz(a,h)anthracene	<0.19		38.2	33.5		ug/L		88	1 - 227		
Fluoranthene	<0.19		38.2	32.4		ug/L		85	26 - 137		
Fluorene	<0.19		38.2	28.5		ug/L		75	59 - 121		
Indeno[1,2,3-cd]pyrene	<0.19		38.2	33.0		ug/L		86	1 - 171		
Naphthalene	<0.19		38.2	19.8		ug/L		52	21 - 133		
Phenanthrene	<0.19		38.2	30.5		ug/L		80	54 - 120		
Pyrene	<0.19		38.2	31.8		ug/L		83	52 - 120		
Surrogate	MS MS		Limits								
	%Recovery	Qualifier									
2,4,6-Tribromophenol (Surr)	63		28 - 127								
2-Fluorobiphenyl (Surr)	37		31 - 120								
2-Fluorophenol (Surr)	42		17 - 120								
Nitrobenzene-d5 (Surr)	29		27 - 120								
Phenol-d6 (Surr)	27		10 - 120								
p-Terphenyl-d14 (Surr)	48		45 - 120								

Lab Sample ID: 380-115753-A-3-B MSD
Matrix: Water
Analysis Batch: 488403

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 487444

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	Limits	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier							
1-Methylnaphthalene	<0.19		38.1	22.2		ug/L		58	36 - 120	7	30	
2-Methylnaphthalene	<0.19		38.1	22.1		ug/L		58	32 - 124	7	30	
Acenaphthene	<0.19		38.1	29.1		ug/L		76	47 - 145	6	48	
Acenaphthylene	<0.19		38.1	29.8		ug/L		78	33 - 145	6	74	
Benzo[a]anthracene	<0.19		38.1	34.1		ug/L		89	33 - 143	4	53	
Benzo[a]pyrene	<0.19		38.1	35.3		ug/L		92	17 - 163	4	72	
Benzo[b]fluoranthene	<0.19		38.1	33.5		ug/L		88	24 - 159	2	71	
Benzo[g,h,i]perylene	<0.19		38.1	33.8		ug/L		89	1 - 219	1	97	
Benzo[k]fluoranthene	<0.19		38.1	34.1		ug/L		89	11 - 162	4	63	
Chrysene	<0.19		38.1	32.1		ug/L		84	17 - 168	4	87	
Dibenz(a,h)anthracene	<0.19		38.1	34.2		ug/L		90	1 - 227	2	126	
Fluoranthene	<0.19		38.1	34.3		ug/L		90	26 - 137	6	66	
Fluorene	<0.19		38.1	30.6		ug/L		80	59 - 121	7	38	
Indeno[1,2,3-cd]pyrene	<0.19		38.1	33.7		ug/L		88	1 - 171	2	99	
Naphthalene	<0.19		38.1	21.2		ug/L		56	21 - 133	7	65	
Phenanthrene	<0.19		38.1	32.0		ug/L		84	54 - 120	5	39	
Pyrene	<0.19		38.1	32.8		ug/L		86	52 - 120	3	49	
Surrogate	MSD MSD		Limits									
	%Recovery	Qualifier										
2,4,6-Tribromophenol (Surr)	68		28 - 127									
2-Fluorobiphenyl (Surr)	39		31 - 120									
2-Fluorophenol (Surr)	45		17 - 120									

QC Sample Results

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

Job ID: 380-115727-1
SDG: Weekly

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

Lab Sample ID: 380-115753-A-3-B MSD
Matrix: Water
Analysis Batch: 488403

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 487444

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Nitrobenzene-d5 (Surr)	31		27 - 120
Phenol-d6 (Surr)	30		10 - 120
p-Terphenyl-d14 (Surr)	49		45 - 120

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

Lab Sample ID: MB 570-489970/11
Matrix: Water
Analysis Batch: 489970

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			10/10/24 17:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		38 - 134		10/10/24 17:53	1

Lab Sample ID: LCS 570-489970/1010
Matrix: Water
Analysis Batch: 489970

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	427		ug/L		107	78 - 120

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

Lab Sample ID: LCSD 570-489970/12
Matrix: Water
Analysis Batch: 489970

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	397		ug/L		99	78 - 120	7	10

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		38 - 134

Lab Sample ID: MRL 570-489970/1005
Matrix: Water
Analysis Batch: 489970

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	10.7		ug/L		107	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
4-Bromofluorobenzene (Surr)	79		38 - 134

QC Sample Results

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

Job ID: 380-115727-1
SDG: Weekly

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

Lab Sample ID: 380-115753-B-3 MS
Matrix: Water
Analysis Batch: 489970

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	404		ug/L		101	68 - 122	
Surrogate	%Recovery	MS Qualifier	MS Limits							
4-Bromofluorobenzene (Surr)	92		38 - 134							

Lab Sample ID: 380-115753-B-3 MSD
Matrix: Water
Analysis Batch: 489970

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	406		ug/L		101	68 - 122	0	18
Surrogate	%Recovery	MSD Qualifier	MSD Limits								
4-Bromofluorobenzene (Surr)	93		38 - 134								

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

Lab Sample ID: MB 570-488004/1-A
Matrix: Water
Analysis Batch: 488344

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 488004

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics (C10-C24)	<25		25	ug/L		10/04/24 13:52	10/06/24 06:58	1	
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		10/04/24 13:52	10/06/24 06:58	1	
C8-C18	<25		25	ug/L		10/04/24 13:52	10/06/24 06:58	1	
Surrogate	%Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac			
n-Octacosane (Surr)	118		60 - 130	10/04/24 13:52	10/06/24 06:58	1			

Lab Sample ID: LCS 570-488004/2-A
Matrix: Water
Analysis Batch: 488344

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 488004

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
C10-C28	1600	1160		ug/L		72	56 - 127
Surrogate	%Recovery	LCS Qualifier	LCS Limits				
n-Octacosane (Surr)	108		60 - 130				

Lab Sample ID: LCSD 570-488004/3-A
Matrix: Water
Analysis Batch: 488344

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 488004

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28	1600	1210		ug/L		76	56 - 127	5	23

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-115727-1
SDG: Weekly

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

Lab Sample ID: LCSD 570-488004/3-A
Matrix: Water
Analysis Batch: 488344

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 488004

	LCSD %Recovery	LCSD Qualifier	Limits
<i>Surrogate</i> <i>n-Octacosane (Surr)</i>	116		60 - 130

Lab Sample ID: MRL 570-488004/4-A
Matrix: Water
Analysis Batch: 488344

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 488004

	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	Limits
Analyte C10-C28	0.0200	0.0222	J	mg/L		111	50 - 150

	MRL %Recovery	MRL Qualifier	Limits
<i>Surrogate</i> <i>n-Octacosane (Surr)</i>	112		60 - 130

Lab Sample ID: 380-115753-C-3-A MS
Matrix: Water
Analysis Batch: 488344

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 488004

	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Analyte C10-C28	<26		1630	1320		ug/L		81	70 - 130

	MS %Recovery	MS Qualifier	Limits
<i>Surrogate</i> <i>n-Octacosane (Surr)</i>	111		60 - 130

Lab Sample ID: 380-115753-C-3-B MSD
Matrix: Water
Analysis Batch: 488344

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 488004

	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Analyte C10-C28	<26		1630	1380		ug/L		85	70 - 130	5	20

	MSD %Recovery	MSD Qualifier	Limits
<i>Surrogate</i> <i>n-Octacosane (Surr)</i>	112		60 - 130

QC Association Summary

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

Job ID: 380-115727-1
SDG: Weekly

GC/MS Semi VOA

Prep Batch: 111994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-115727-1	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	525.2	
380-115727-3	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP	Total/NA	Drinking Water	525.2	
MB 380-111994/21-A	Method Blank	Total/NA	Water	525.2	
LCS 380-111994/23-A	Lab Control Sample	Total/NA	Water	525.2	
LCSD 380-111994/24-A	Lab Control Sample Dup	Total/NA	Water	525.2	
MRL 380-111994/22-A	Lab Control Sample	Total/NA	Water	525.2	
380-115709-B-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	525.2	
380-115709-C-1-A MS	Matrix Spike	Total/NA	Water	525.2	

Analysis Batch: 112094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-115727-1	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	525.2	111994
380-115727-3	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP	Total/NA	Drinking Water	525.2	111994
LCS 380-111994/23-A	Lab Control Sample	Total/NA	Water	525.2	111994
LCSD 380-111994/24-A	Lab Control Sample Dup	Total/NA	Water	525.2	111994
MRL 380-111994/22-A	Lab Control Sample	Total/NA	Water	525.2	111994
380-115709-B-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	525.2	111994
380-115709-C-1-A MS	Matrix Spike	Total/NA	Water	525.2	111994

Analysis Batch: 112221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 380-111994/21-A	Method Blank	Total/NA	Water	525.2	111994

Prep Batch: 487444

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-115727-1	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	625.1	
380-115727-3	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP	Total/NA	Drinking Water	625.1	
MB 570-487444/1-A	Method Blank	Total/NA	Water	625.1	
LCS 570-487444/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 570-487444/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	
380-115753-A-3-A MS	Matrix Spike	Total/NA	Water	625.1	
380-115753-A-3-B MSD	Matrix Spike Duplicate	Total/NA	Water	625.1	

Analysis Batch: 487832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-487444/1-A	Method Blank	Total/NA	Water	625.1 SIM	487444
LCS 570-487444/2-A	Lab Control Sample	Total/NA	Water	625.1 SIM	487444
LCSD 570-487444/3-A	Lab Control Sample Dup	Total/NA	Water	625.1 SIM	487444

Analysis Batch: 488403

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-115727-1	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	625.1 SIM	487444
380-115727-3	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP	Total/NA	Drinking Water	625.1 SIM	487444
380-115753-A-3-A MS	Matrix Spike	Total/NA	Water	625.1 SIM	487444
380-115753-A-3-B MSD	Matrix Spike Duplicate	Total/NA	Water	625.1 SIM	487444

Analysis Batch: 491128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-115727-1	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	625.1	487444
380-115727-3	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP	Total/NA	Drinking Water	625.1	487444
MB 570-487444/1-A	Method Blank	Total/NA	Water	625.1	487444

Eurofins Eaton Analytical Pomona

QC Association Summary

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

Job ID: 380-115727-1
SDG: Weekly

GC VOA

Analysis Batch: 489970

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-115727-1	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	8015B GRO LL	
380-115727-2	TB:AIEA GULCH WELLS P2 (331-202-TP072)	Total/NA	Water	8015B GRO LL	
380-115727-3	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP	Total/NA	Drinking Water	8015B GRO LL	
380-115727-4	TB: AIEA WELLS PUMPS 1&2 (260) (331-203-TF	Total/NA	Water	8015B GRO LL	
MB 570-489970/11	Method Blank	Total/NA	Water	8015B GRO LL	
LCS 570-489970/1010	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-489970/12	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	
MRL 570-489970/1005	Lab Control Sample	Total/NA	Water	8015B GRO LL	
380-115753-B-3 MS	Matrix Spike	Total/NA	Water	8015B GRO LL	
380-115753-B-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8015B GRO LL	

GC Semi VOA

Prep Batch: 488004

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-115727-1	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	3510C	
380-115727-3	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP	Total/NA	Drinking Water	3510C	
MB 570-488004/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-488004/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-488004/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-488004/4-A	Lab Control Sample	Total/NA	Water	3510C	
380-115753-C-3-A MS	Matrix Spike	Total/NA	Water	3510C	
380-115753-C-3-B MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

Analysis Batch: 488344

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-115727-1	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	8015B	488004
380-115727-3	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP	Total/NA	Drinking Water	8015B	488004
MB 570-488004/1-A	Method Blank	Total/NA	Water	8015B	488004
LCS 570-488004/2-A	Lab Control Sample	Total/NA	Water	8015B	488004
LCSD 570-488004/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	488004
MRL 570-488004/4-A	Lab Control Sample	Total/NA	Water	8015B	488004
380-115753-C-3-A MS	Matrix Spike	Total/NA	Water	8015B	488004
380-115753-C-3-B MSD	Matrix Spike Duplicate	Total/NA	Water	8015B	488004

Lab Chronicle

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

Job ID: 380-115727-1
SDG: Weekly

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

Lab Sample ID: 380-115727-1

Date Collected: 09/30/24 10:19

Matrix: Drinking Water

Date Received: 10/02/24 07:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			111994	KRD3	EA POM	10/06/24 12:09
Total/NA	Analysis	525.2		1	112094	UPAC	EA POM	10/07/24 17:23
Total/NA	Prep	625.1			487444	H1SH	EET CAL 4	10/04/24 05:24
Total/NA	Analysis	625.1		1	491128	CG	EET CAL 4	10/14/24 11:49
Total/NA	Prep	625.1			487444	H1SH	EET CAL 4	10/04/24 05:24
Total/NA	Analysis	625.1 SIM		1	488403	PQS1	EET CAL 4	10/06/24 15:33
Total/NA	Analysis	8015B GRO LL		1	489970	A9VE	EET CAL 4	10/11/24 00:11
Total/NA	Prep	3510C			488004	H6FE	EET CAL 4	10/04/24 13:52
Total/NA	Analysis	8015B		1	488344	UJ3K	EET CAL 4	10/06/24 09:23

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

Lab Sample ID: 380-115727-2

Date Collected: 09/30/24 10:19

Matrix: Water

Date Received: 10/02/24 07:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	489970	A9VE	EET CAL 4	10/10/24 20:41

**Client Sample ID: AIEA WELLS PUMPS 1&2 P2 (260)
(331-203-TP400)**

Lab Sample ID: 380-115727-3

Date Collected: 09/30/24 10:43

Matrix: Drinking Water

Date Received: 10/02/24 07:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			111994	KRD3	EA POM	10/06/24 12:09
Total/NA	Analysis	525.2		1	112094	UPAC	EA POM	10/07/24 17:44
Total/NA	Prep	625.1			487444	H1SH	EET CAL 4	10/04/24 05:24
Total/NA	Analysis	625.1		1	491128	CG	EET CAL 4	10/14/24 12:13
Total/NA	Prep	625.1			487444	H1SH	EET CAL 4	10/04/24 05:24
Total/NA	Analysis	625.1 SIM		1	488403	PQS1	EET CAL 4	10/06/24 15:55
Total/NA	Analysis	8015B GRO LL		1	489970	A9VE	EET CAL 4	10/11/24 00:34
Total/NA	Prep	3510C			488004	H6FE	EET CAL 4	10/04/24 13:52
Total/NA	Analysis	8015B		1	488344	UJ3K	EET CAL 4	10/06/24 09:43

**Client Sample ID: TB: AIEA WELLS PUMPS 1&2 (260)
(331-203-TP400)**

Lab Sample ID: 380-115727-4

Date Collected: 09/30/24 10:43

Matrix: Water

Date Received: 10/02/24 07:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	489970	A9VE	EET CAL 4	10/10/24 21:05

Laboratory References:

EA POM = Eurofins Eaton Analytical Pomona, 941 Corporate Center Drive, Pomona, CA 91768-2642, TEL (626)386-1100
EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Eurofins Eaton Analytical Pomona

Accreditation/Certification Summary

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

Job ID: 380-115727-1
 SDG: Weekly

Laboratory: Eurofins Eaton Analytical Pomona

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

Authority	Program	Identification Number	Expiration Date
Hawaii	State	CA00006	01-31-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
525.2	525.2	Drinking Water	1-Methylnaphthalene
525.2	525.2	Drinking Water	2,4'-DDD
525.2	525.2	Drinking Water	2,4'-DDE
525.2	525.2	Drinking Water	2,4'-DDT
525.2	525.2	Drinking Water	2,4-Dinitrotoluene
525.2	525.2	Drinking Water	2,6-Dinitrotoluene
525.2	525.2	Drinking Water	2-Methylnaphthalene
525.2	525.2	Drinking Water	4,4'-DDD
525.2	525.2	Drinking Water	4,4'-DDE
525.2	525.2	Drinking Water	4,4' DDT
525.2	525.2	Drinking Water	Acetochlor
525.2	525.2	Drinking Water	alpha-BHC
525.2	525.2	Drinking Water	alpha-Chlordane
525.2	525.2	Drinking Water	beta-BHC
525.2	525.2	Drinking Water	Chlorobenzilate
525.2	525.2	Drinking Water	Chloroneb
525.2	525.2	Drinking Water	Chlorothalonil (Draconil, Bravo)
525.2	525.2	Drinking Water	Chlorpyrifos
525.2	525.2	Drinking Water	delta-BHC
525.2	525.2	Drinking Water	Diclorvos (DDVP)
525.2	525.2	Drinking Water	Endosulfan I (Alpha)
525.2	525.2	Drinking Water	Endosulfan II (Beta)
525.2	525.2	Drinking Water	Endosulfan sulfate
525.2	525.2	Drinking Water	Endrin aldehyde
525.2	525.2	Drinking Water	EPTC
525.2	525.2	Drinking Water	gamma-Chlordane
525.2	525.2	Drinking Water	Isophorone
525.2	525.2	Drinking Water	Malathion
525.2	525.2	Drinking Water	Parathion
525.2	525.2	Drinking Water	Pendimethalin (Penoxaline)
525.2	525.2	Drinking Water	Terbacil
525.2	525.2	Drinking Water	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
Arizona	State	AZ0830	11-15-24
Arkansas DEQ	State	88-0161	07-02-25
California	Los Angeles County Sanitation Districts	9257304	08-01-24 *
California	SCAQMD LAP	17LA0919	11-30-24
California	State	3082	07-31-26
Kansas	NELAP	E-10420	07-31-25

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

Eurofins Eaton Analytical Pomona

Accreditation/Certification Summary

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

Job ID: 380-115727-1
SDG: Weekly

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
Nevada	State	CA00111	07-31-25
Oregon	NELAP	4175	02-02-25
USDA	US Federal Programs	P330-22-00059	06-08-26

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

Method Summary

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

Job ID: 380-115727-1
SDG: Weekly

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

Protocol References:

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

EPA = US Environmental Protection Agency

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

Laboratory References:

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

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

Sample Summary

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

Job ID: 380-115727-1
SDG: Weekly

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
380-115727-1	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Drinking Water	09/30/24 10:19	10/02/24 07:19
380-115727-2	TB:AIEA GULCH WELLS P2 (331-202-TP072)	Water	09/30/24 10:19	10/02/24 07:19
380-115727-3	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP400)	Drinking Water	09/30/24 10:43	10/02/24 07:19
380-115727-4	TB: AIEA WELLS PUMPS 1&2 (260) (331-203-TP400)	Water	09/30/24 10:43	10/02/24 07:19

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

Chain of Custody Record

Client Information		Lab PM: Arada Rachelle		Carrier Tracking No(s): 380-28005-2757 1	
Client Contact: Dr. Ron Fenstemacher		E-Mail: Rachelle.Arada@et.eurofins.com		Page: Page 1 of 1	
Company: City & County of Honolulu		PWSID:		Job #:	
Address: 630 South Beretania Street Chemistry Lab		Due Date Requested:		Preservation Codes: R - NaThioSO4 RA - NaThioHCl Q - Na2SO3 QA - Na2SO3/HCl Y - Trizma I - NH4 Acetate	
City: Honolulu		TAT Requested (days):		Total Number of containers:	
State, Zip: HI 96843		Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Other:	
Phone: 808-748-5091(Tel)		PO #: C20525101 exp 05312023		Special Instructions/Note: 02789 5468 5280 4000-4.0 02789 5468 5290 52-00=52	
Email: RFENSTEMACHER@hbws.org		WO #: 38001111			
Project Name: RED-HILL/HBWS Sites Event Desc: RUSH Weekly Red Hill		Project #: 38001111			
Site: Hawaii		SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Preservation Code:	Matrix (W=water, S=solid, O=soil, BT=issue, A=AU)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015B_GRO_LL_CS - (MOD) GRO	8015B_PRO_LL_CS - HNL Ranges C10-C24/C24-C36/C8-C18	525.2_PREC - (MOD) 525plus Plus TICs	537_1_DW_PREC - 537 1 Full List	533 - All Analytes	360-115727 COC	Analysis Requested
Aiea Gulch Wells Pump 2	30-Sep-2024	019	G		Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2	3	2	2			
Aiea Gulch Wells Pump 2 (Matrix Spike)					Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>							
Aiea Gulch Wells Pump 2 (Matrix Spike Duplicate)					Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>							
TB: Aiea Gulch Wells Pump 2	30-Sep-2024	1019			Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2						
Aiea Wells Pumps 1&2 (260) PZ	30-Sep-2024	1043	G		Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2	3	2	2			
Aiea Wells Pumps 1&2 (260) (Matrix Spike)					Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>							
Aiea Wells Pumps 1&2 (Matrix Spike Duplicate)					Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>							
TB: Aiea Wells Pumps 1&2 (260)	30-Sep-2024	1043			Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2						

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: _____

Relinquished by: _____ Date: 01 October 2024 1400

Relinquished by: _____ Date/Time: _____

Relinquished by: _____ Date/Time: _____

Custody Seals Intact: Yes No

Custody Seal No: _____

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

Special Instructions/QC Requirements:

Method of Shipment: _____

Received by: _____ Date/Time: 10-2-24 1020

Received by: _____ Date/Time: _____

Received by: _____ Date/Time: _____

Cooler Temperature(s) °C and Other Remarks: 3.2-00=3.2 751A G1E1



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: 01OCT24
ACTWGT 62.00 LB
CAD 25805552/INET4535

BILL RECIPIENT

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

58CJ2/B264/C8C4

POMONA CA 91768

REF

(626) 386-1100

INV

PO

DEPT



1 of 6
WED - 02 OCT 10:30A
PRIORITY OVERNIGHT

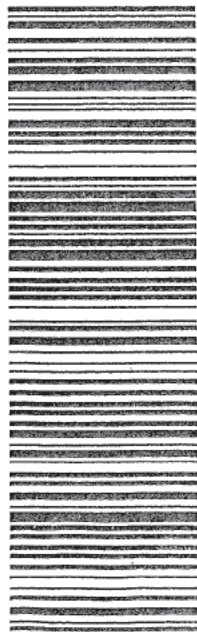
TRK# 7789 5468 5280

MASTER

91768

WM ONTA

CA-US ONT



4.0-0.0 = 4.0 751A 6el
ASW 10/2/24 1020

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

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on Fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non delivery, misdelivery, or misinformation, unless you declare a higher value. pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits. see current FedEx Service Guide

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

5.2 - 0.0 = 5.2
751A Gel

[Signature] 10/2/24 1020

NO COC

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

SHIP DATE: 01 OCT 24
ACTWGT: 62.00 LB
CAD: 258050552/INET4535

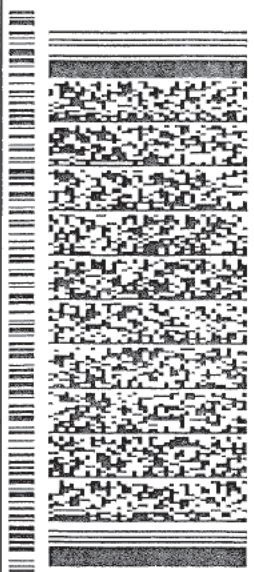
ORIGIN ID: HIKA (808) 748-5840
BWS CHEM LAB
HONOLULU BOARD OF WATER SUPPLY
630 S. BERETANIA ST.
CHEMICAL LABORATORY
HONOLULU HI 96843
UNITED STATES US

BILL RECIPIENT

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

POMONA CA 91768

(626) 396-1100 REF
INV PO DEPT



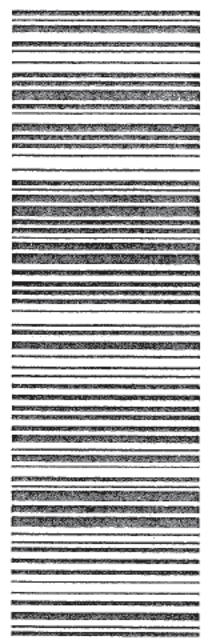
WED - 02 OCT 10:30A
PRIORITY OVERNIGHT

2 of 6

MPS# 7789 5468 5290

Mst# 7789 5468 5280

WM ONTA 91768
CA-US ONT



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

ORIGIN ID HIKA (808) 746-5840
BWS CHEM LAB
HONOLULU BOARD OF WATER SUPPLY
630 S. BERETANIA ST.
CHEMICAL LABORATORY
HONOLULU HI 96843
UNITED STATES US

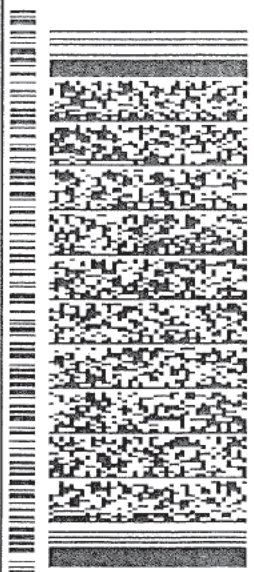
SHIP DATE: 01.OCT24
ACTWGT: 62.00 LB
CAD: 258050552/INET4535

BILL RECIPIENT

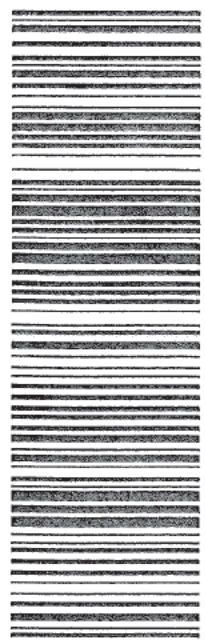
TO EUROFINS RECEIVING DEPARTMENT
EUROFINS DRINKING WATER TESTING
941 CORPORATE CENTER DR

58CJ2/B264/CECA

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



3 of 6
MPS# 0263 7789 5468 5305
Mst# 7789 5468 5280
WED - 02 OCT 10:30A
PRIORITY OVERNIGHT
WM ONTA 91768
CA-US ONT



1

3-8-0.0=38 ASIA Gel
ASDZ 10-2-24
1020

NO COC

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

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

ORIGIN ID HIKKA (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 01OCT24
ACTWGT 62.00 LB
CAD 258050552INET14535

BILL RECIPIENT

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

58CJ2/R264/C6CA

POMONA CA 91768

REF

(626) 386-1100

INV#

PO

DEPT



WED - 02 OCT 10:30A
PRIORITY OVERNIGHT

4 of 6

MPS# 7789 5468 5316

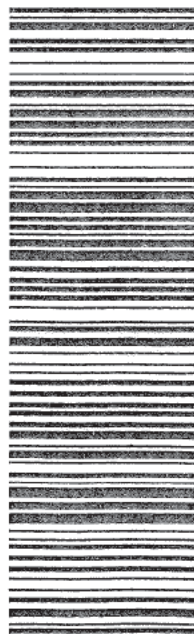
0263

Mstr# 7789 5468 5280

91768

WM ONTA

CA-US ONT



3-2-00-3-2 7S/A (re)
A B... 06 2-24 1020

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

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

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

SHIP DATE 01OCT24
ACTWGT 62.00 LB
CAD 258050552INET4535
BILL RECIPIENT

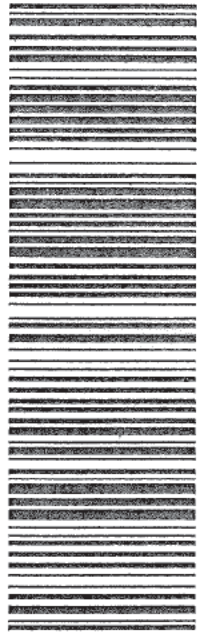
TO EUROFINS RECEIVING DEPARTMENT
EUROFINS DRINKING WATER TESTING
941 CORPORATE CENTER DR

POMONA CA 91768

(626) 386-1100 REF
INV PC: DEPT



5 of 6
MPS# 7789 5468 5327
0263
Mst# 7789 5468 5280
WM ONTA
CA-US ONT
91768
WED - 02 OCT 10:30A
PRIORITY OVERNIGHT
0201



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

58CJ2/B264/C8C4

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

ORIGIN ID HIKKA (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 0 OCT24
ACTWGT 34.00 LB
CAD 258050552/INET4535

BILL RECIPIENT

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

58CJ2/R264/C6C4

POMONA CA 91768

(626) 386-1100 REF

INV
PC

DEPT



6 of 6 WED - 02 OCT 10:30A
PRIORITY OVERNIGHT

MPS# 7789 5468 5338

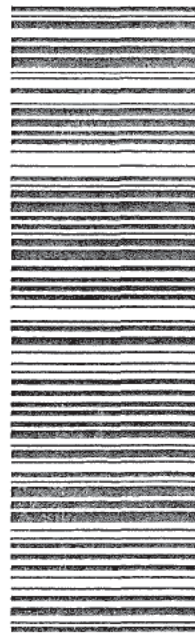
0263

Mstr# 7789 5468 5280

WM ONTA

91768

CA-US ONT



7-8-0.0-7 & 751A Gre
A Song U 751A 10 2-24 1020

NO COC

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

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

Chain of Custody Record

Client Information		Lab PM: Arada Rachelle		Carrier Tracking No(s): 380-28005-2757 1	
Client Contact: Dr. Ron Fenstemacher		E-Mail: Rachelle.Arada@et.eurofins.com		Page: Page 1 of 1	
Company: City & County of Honolulu		PWSID:		Job #:	
Address: 630 South Beretania Street Chemistry Lab		Due Date Requested:		Preservation Codes: R - NaThioSO4 RA - NaThioHCl Q - Na2SO3 QA - Na2SO3/HCl Y - Trizma I - NH4 Acetate	
City: Honolulu		TAT Requested (days):		Total Number of containers:	
State, Zip: HI 96843		Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Other:	
Phone: 808-748-5091(Tel)		PO #: C20525101 exp 05312023		Special Instructions/Note: 02789 5468 5280 4000-4.0 02789 5468 5290 52-00=52	
Email: RFENSTEMACHER@hbws.org		WO #:			
Project Name: RED-HILL/HBWS Sites Event Desc: RUSH Weekly Red Hill		Project #: 38001111			
Site: Hawaii		SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Preservation Code:	Matrix (W=water, S=solid, O=soil, BT=issue, A=AU)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015B_GRO_LL_CS - (MOD) GRO	8015B_PRO_LL_CS - HNL Ranges C10-C24/C24-C36/C8-C18	525.2_PREC - (MOD) 525plus Plus TICs	537_1_DW_PREC - 537 1 Full List	533 - All Analytes	360-115727 COC	Analysis Requested
Aiea Gulch Wells Pump 2	30-Sep-2024	019	G		Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2	3	2	2			
Aiea Gulch Wells Pump 2 (Matrix Spike)					Water									
Aiea Gulch Wells Pump 2 (Matrix Spike Duplicate)					Water									
TB: Aiea Gulch Wells Pump 2	30-Sep-2024	1019			Water			2						
Aiea Wells Pumps 1&2 (260) PZ					Water									
Aiea Wells Pumps 1&2 (260) (Matrix Spike)					Water									
Aiea Wells Pumps 1&2 (Matrix Spike Duplicate)					Water									
TB: Aiea Wells Pumps 1&2 (260)					Water			2						

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
 Deliverable Requested I, II, III, IV Other (specify)

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

Special Instructions/QC Requirements:

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

SHIP DATE: 01OCT24
ACTWGT 62.00 LB
CAD 25805552/INET4535

BILL RECIPIENT

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

58CJ2/B264/C8C4

POMONA CA 91768

REF

(626) 386-1100

INV

PO

DEPT



1 of 6
WED - 02 OCT 10:30A
PRIORITY OVERNIGHT

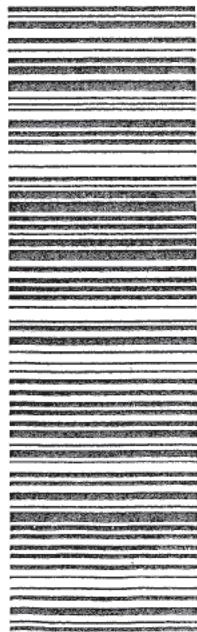
TRK# 7789 5468 5280

MASTER

91768

WM ONTA

CA-US ONT



4.0-0.0 = 4.0 751A 6el
ASW 10/2/24 1020

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

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on Fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non delivery, misdelivery, or misinformation, unless you declare a higher value. pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits. see current FedEx Service Guide

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

5.2 - 0.0 = 5.2
751A Gel

[Signature] 10/2/24 1020

NO COC

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

SHIP DATE: 01 OCT 24
ACTWGT: 62.00 LB
CAD: 258050552/INET4535

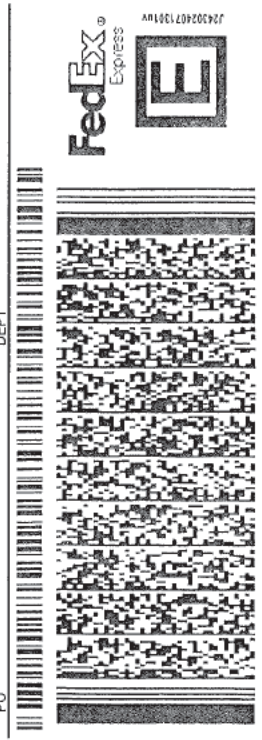
ORIGIN ID: HIKA (808) 748-5840
BWS CHEM LAB
HONOLULU BOARD OF WATER SUPPLY
630 S. BERETANIA ST.
CHEMICAL LABORATORY
HONOLULU HI 96843
UNITED STATES US

BILL RECIPIENT

TO EUROFINS RECEIVING DEPARTMENT
EUROFINS DRINKING WATER TESTING
941 CORPORATE CENTER DR
POMONA CA 91768

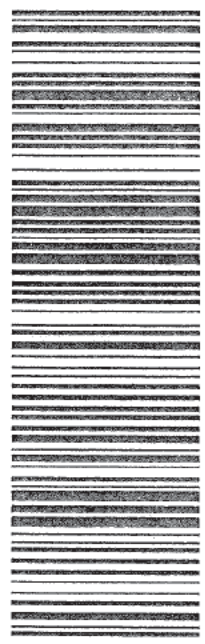
58C12/B264/C6C4

(626) 386-1100 REF
INV PO DEPT



2 of 6
MPS# 0263 7789 5468 5290
Mst# 7789 5468 5280
WM ONTA 91768
CA-US ONT

WED - 02 OCT 10:30A
PRIORITY OVERNIGHT



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

ORIGIN ID: HIKA
BWS CHEM LAB
HONOLULU BOARD OF WATER SUPPLY
630 S. BERETANIA ST.
CHEMICAL LABORATORY
HONOLULU HI 96843
UNITED STATES US

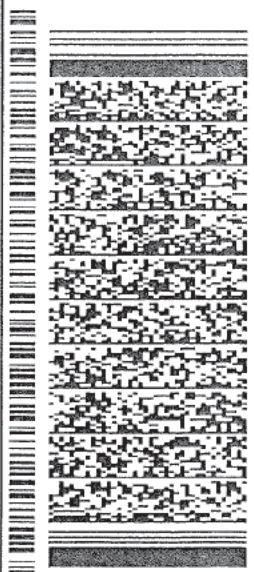
SHIP DATE: 01.OCT24
ACTWGT: 62.00 LB
CAD: 258050552/INET4535

BILL RECIPIENT

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

POMONA CA 91768

(626) 386-1100 REF
INV. PO DEPT



WED - 02 OCT 10:30A
PRIORITY OVERNIGHT

3 of 6

MPS# 7789 5468 5305

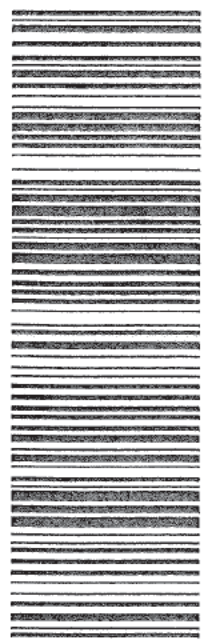
Mst# 7789 5468 5280

WM ONTA

0201

91768

CA-US ONT



1

3-8-0.0=38 ASIA Gel
ASDZ 10-2-24
1020

NO COC

After printing this label
1 Fold the printed page along the horizontal line
2 Place label in shipping pouch and affix to your shipment



ORIGIN ID HIKKA (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 01OCT24
ACTWGT 62.00 LB
CAD 258050552INET14535

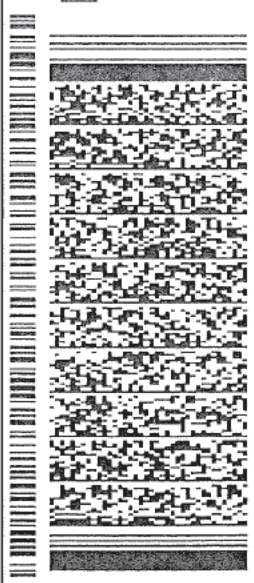
BILL RECIPIENT

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

58CJ2/R264/C6CA

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

DEPT



WED - 02 OCT 10:30A
PRIORITY OVERNIGHT

4 of 6

MPS# 7789 5468 5316

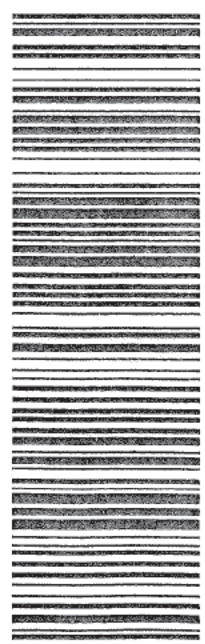
0263

Mstr# 7789 5468 5280

91768

WM ONTA

CA-US ONT



3-2-00-3-2 7S/A (re)
A B... 06 2-24 1020

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



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

SHIP DATE 01OCT24
ACTWGT 62.00 LB
CAD 258050552INET4535
BILL RECIPIENT

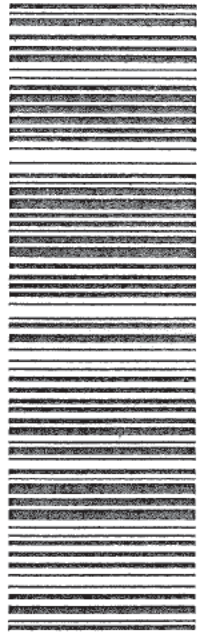
TO EUROFINS RECEIVING DEPARTMENT
EUROFINS DRINKING WATER TESTING
941 CORPORATE CENTER DR

POMONA CA 91768

(626) 386-1100 REF
INV
PC: DEPT



5 of 6
MPS# 7789 5468 5327
0263
Mst# 7789 5468 5280
WM ONTA
CA-US ONT
91768
WED - 02 OCT 10:30A
PRIORITY OVERNIGHT
0201



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

58CJ2/B264/C8C4

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

ORIGIN ID HIKKA (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 0 OCT24
ACTWGT 34.00 LB
CAD 258050552/INET4535

BILL RECIPIENT

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

S8CJ2/B264/C6C4

POMONA CA 91768

(626) 386-1100 REF

INV
PC

DEPT



6 of 6 WED - 02 OCT 10:30A

PRIORITY OVERNIGHT

MPS#

7789 5468 5338

0263

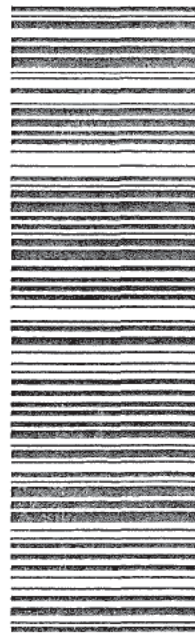
Mstr# 7789 5468 5280

0201

91768

WM ONTA

CA-US ONT



7-8-0.0-7 & 751A Gre
A Song U 751A 10 2-24 1020

NO COC

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

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

Chain of Custody Record



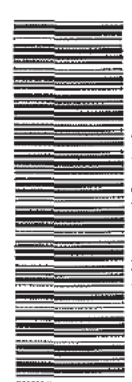
Client Information (Sub Contract Lab)
 Client Contact: Shipping/Receiving
 Company: Eurofins Environment Testing Southwest
 Address: 2841 Dow Avenue, Suite 100,
 City: Tustin
 State, Zip: CA, 92780
 Phone: 714-895-5494(Tel)
 Email:

Lab Pkt: Arcada, Rachelle
 E-Mail: Rachelle.Arcada@et.eurofins.com
 Carrier Tracking No(s): 380-158212.1
 State of Origin: Hawaii
 Page: Page 1 of 1
 Job #: 380-115727-1
 Preservation Codes:

Accreditations Required (See note):
 State: Hawaii

Due Date Requested: 10/15/2024
 TAT Requested (days):
 PO #:
 WO #:
 Project #: 38001111
 SOW#:
 Site: Honolulu BWS Sites

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Sewer, Stormwater, Other)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	80168_DRO_LL_CS3610C_LL_HNL_Ranges_C10	80168_GRO_LL5030C (MOD) GRO	80168_SIM/625_Prep (MOD) Extended List	825_H625_Prep (MOD) Tentatively Identified Compounds (Hold)	Total Number of Containers	Special Instructions/Note:
AIEA GULCH WELLS PUMP 2 (331-202-TP072) (380-115727-1)	9/30/24	10:19 Hawaiian	G	Water	X	X	X	X	X		7	MRLs are needed. Confirm any hits >RL.
TB:AIEA GULCH WELLS P2 (331-202-TP072) (380-115727-2)	9/30/24	10:19 Hawaiian	G	Water	X	X	X	X	X		2	MRLs are needed.
AIEA WELLS PUMPS 1&2 (260) (331-203-TP400) (380-115727-3)	9/30/24	10:43 Hawaiian	G	Water	X	X	X	X	X		7	MRLs are needed. Confirm any hits >RL.
TB: AIEA WELLS PUMPS 1&2 (260) (331-203-TP400) (380-115727-4)	9/30/24	10:43 Hawaiian	G	Water	X	X	X	X	X		2	MRLs are needed.



380-115727 Chain of Custody

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

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV Other (specify) Primary Deliverable Rank: 2
 Special Instructions/QC Requirements:

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

Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: _____ Date/Time: 10/13/24 11:10
 Relinquished by: _____ Date/Time: _____
 Relinquished by: _____ Date/Time: _____

Relinquished by: _____ Date/Time: _____
 Relinquished by: _____ Date/Time: _____

Cooler Temperature(s) °C and Other Remarks: 17/2.4 sec

Custody Seal No. _____
 Δ Yes Δ No



Chain of Custody Record

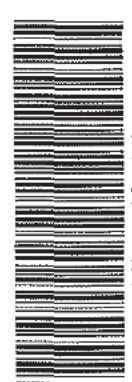


Client Information (Sub Contract Lab)
 Client Contact: Shipping/Receiving
 Lab Pkt: Arada, Rachelle
 E-Mail: Rachelle.Arada@et.eurofins.com
 Carrier Tracking No(s): 380-158212.1
 State of Origin: Hawaii
 Page: Page 1 of 1
 Job #: 380-115727-1
 Preservation Codes: 380-115727-1

Company: Eurofins Environment Testing Southwest
 Address: 2841 Dow Avenue, Suite 100,
 City: Tustin
 State, Zip: CA, 92780
 Phone: 714-895-5494(Tel)
 Email:

Due Date Requested: 10/15/2024
 TAT Requested (days):
 PO #:
 WO #:
 Project #: 38001111
 SOW#:
 Site: Honolulu BWS Sites

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Sewage, Stormwater, Other)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	80168_DRO_LL_CS3610C_LL_HNL_Ranges_C10	80168_GRO_LL5030C (MOD) GRO	80168_SIM/525_Prep (MOD) Extended List	825_H2S_Prep (MOD) Tentatively Identified Compounds (Hold)	Total Number of Containers	Special Instructions/Note:
AIEA GULCH WELLS PUMP 2 (331-202-TP072) (380-115727-1)	9/30/24	10:19 Hawaiian	G	Water	X	X	X	X	X		7	MRLs are needed. Confirm any hits >RL.
TB:AIEA GULCH WELLS P2 (331-202-TP072) (380-115727-2)	9/30/24	10:19 Hawaiian	G	Water							2	MRLs are needed.
AIEA WELLS PUMPS 1&2 (260) (331-203-TP400) (380-115727-3)	9/30/24	10:43 Hawaiian	G	Water			X	X	X		7	MRLs are needed. Confirm any hits >RL.
TB: AIEA WELLS PUMPS 1&2 (260) (331-203-TP400) (380-115727-4)	9/30/24	10:43 Hawaiian	G	Water			X	X	X		2	MRLs are needed.



380-115727 Chain of Custody

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

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV Other (specify) Primary Deliverable Rank: 2
 Special Instructions/QC Requirements: Return To Client Disposal By Lab Archive For _____ Months

Empty Kit Relinquished by: _____
 Date/Time: 10/13/24 11:10
 Company: [Signature]
 Relinquished by: [Signature]
 Date/Time: 10/13/24 11:10
 Company: [Signature]
 Relinquished by: _____
 Date/Time: _____
 Company: _____

Cooler Temperature(s) °C and Other Remarks: 17/2.4 SWL
 Custody Seal No. _____
 Δ Yes Δ No



Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-115727-1

SDG Number: Weekly

Login Number: 115727

List Number: 1

Creator: Gerfen, Chris

List Source: Eurofins Eaton Analytical Pomona

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



Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-115727-1

SDG Number: Weekly

Login Number: 115727

List Number: 2

Creator: Khana, Piyush

List Source: Eurofins Calscience

List Creation: 10/03/24 01:22 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.	N/A	
Sample custody seals, if present, are intact.	N/A	
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	2.4
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 <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

