

ANALYTICAL REPORT

PREPARED FOR

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JOB DESCRIPTION

RED-HILL
Quarterly

JOB NUMBER

380-143933-1

Eurofins Eaton Analytical Pomona

Job Notes

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



Authorized for release by
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Definitions/Glossary

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

Job ID: 380-143933-1
SDG: Quarterly

Qualifiers

GC/MS VOA

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

GC/MS VOA TICs

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

GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds control limits.
B	Analyte was found in the associated method blank.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA TICs

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

GC Semi VOA

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

HPLC/IC

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.

Metals

Qualifier	Qualifier Description
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.
B	Analyte was found in the associated method blank.
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.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.
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)

Definitions/Glossary

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

Job ID: 380-143933-1
SDG: Quarterly

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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: 380-143933-1

Job ID: 380-143933-1

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Job Narrative 380-143933-1

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 4/4/2025 10:36 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.8°C and 2.0°C.

GC/MS VOA

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

GC/MS Semi VOA

Method 625.1: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 570-555182. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

Method 625 SIM

Method 625.1 SIM: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 570-555182. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

Method 625 SIM

Method 625.1 SIM: The method blank for preparation batch 570-555182 contained Aniline above the reporting limit (RL). None of the samples associated with this method blank contained the target compound; therefore, re-extraction and/or re-analysis of samples were not performed.

Method 625.1 SIM: The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for preparation batch 570-555182 and analytical batch 570-558249 recovered outside control limits for the following analyte(s): 3-Nitroaniline, 4-Chloroaniline, 4-Nitroaniline, Aniline and Benzidine. 3-Nitroaniline, 4-Chloroaniline, 4-Nitroaniline, Aniline and Benzidine have been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed.

Method 625.1 SIM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 570-555182 and analytical batch 570-558249 recovered outside control limits for the following analytes: 3-Nitroaniline, 4-Chloroaniline, 4-Nitroaniline, Benzidine and N-Nitrosodiphenylamine.

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

Gasoline Range Organics

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

Diesel Range Organics

Method 8015B_DRO_LL_CS: The method reporting limit check (MRL) for preparation batch 570-554296 and analytical batch 570-557672 recovered outside control limits for the following analytes: C10-C28. These analytes were biased high in the MRL and were not detected in the associated samples; therefore, the data have been reported.

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

GC Semi VOA

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Case Narrative

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

Job ID: 380-143933-1

Job ID: 380-143933-1 (Continued)

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

Hydrocarbons

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

Pesticides/PCBs

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

HPLC/IC

Method 300_OF_48H_PREC: The following samples were diluted for Nitrite as N to prevent detector saturation due to high conductivity: AIEA WELLS PUMPS 1&2 (260) (331-203-TP400) P2 (380-143933-1) and Ka'amilo Wells (380-143933-2). Elevated reporting limits (RLs) are provided.

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

Metals

Method 200.7: The method blank for analytical batch 380-145860 contained Magnesium above the method detection limit (MDL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

Method 200.7: The continuing calibration blank (CCB) for analytical batch 380-145860 contained Magnesium above the method detection limit (MDL). All reported samples associated with this CCB contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

Method 200.7: The method blank for analytical batch 380-145860 contained Magnesium above the method detection limit (MDL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

Method 200.7: The continuing calibration blank (CCB) for analytical batch 380-145860 contained Magnesium above the method detection limit (MDL). All reported samples associated with this CCB contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

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

General Chemistry

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: 380-143933-1
SDG: Quarterly

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

Lab Sample ID: 380-143933-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Bromide	370		5.0	ug/L	1		300.0	Total/NA
Chloride	120		2.5	mg/L	5		300.0	Total/NA
Nitrate as N	0.90		0.25	mg/L	5		300.0	Total/NA
Sulfate	17		1.3	mg/L	5		300.0	Total/NA
Calcium	21		0.10	mg/L	1		200.7 Rev 4.4	Total/NA
Magnesium	19	B ^2	0.10	mg/L	1		200.7 Rev 4.4	Total/NA
Potassium	2.5		0.10	mg/L	1		200.7 Rev 4.4	Total/NA
Sodium	41		0.10	mg/L	1		200.7 Rev 4.4	Total/NA
Chromium	3.4		0.90	ug/L	1		200.8	Total/NA
Copper	10		1.0	ug/L	1		200.8	Total/NA
Zinc	14		5.0	ug/L	1		200.8	Total/NA
Alkalinity	59		4.0	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	59		4.0	mg/L	1		SM 2320B	Total/NA
Specific Conductance	500		2.0	umhos/cm	1		SM 2510B	Total/NA
Total Dissolved Solids	340		20	mg/L	1		SM 2540C	Total/NA
Fluoride	0.050		0.050	mg/L	1		SM 4500 F C	Total/NA
pH	7.8	HF		SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: Ka'amilo Wells

Lab Sample ID: 380-143933-2

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Dieldrin	0.037		0.0097	ug/L	1		525.2	Total/NA
Chlordane (n.o.s.)	0.14		0.10	ug/L	1		505	Total/NA
Bromide	280		5.0	ug/L	1		300.0	Total/NA
Chloride	150		2.5	mg/L	5		300.0	Total/NA
Nitrate as N	1.4		0.25	mg/L	5		300.0	Total/NA
Sulfate	26		1.3	mg/L	5		300.0	Total/NA
Calcium	25		0.10	mg/L	1		200.7 Rev 4.4	Total/NA
Magnesium	24	B ^2	0.10	mg/L	1		200.7 Rev 4.4	Total/NA
Potassium	2.9		0.10	mg/L	1		200.7 Rev 4.4	Total/NA
Sodium	57		0.10	mg/L	1		200.7 Rev 4.4	Total/NA
Chromium	2.6		0.90	ug/L	1		200.8	Total/NA
Copper	67		1.0	ug/L	1		200.8	Total/NA
Selenium	2.7		2.0	ug/L	1		200.8	Total/NA
Zinc	17		5.0	ug/L	1		200.8	Total/NA
Alkalinity	76		4.0	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	76		4.0	mg/L	1		SM 2320B	Total/NA
Specific Conductance	650		2.0	umhos/cm	1		SM 2510B	Total/NA
Total Dissolved Solids	410		20	mg/L	1		SM 2540C	Total/NA
Fluoride	0.051		0.050	mg/L	1		SM 4500 F C	Total/NA
pH	7.6	HF		SU	1		SM 4500 H+ B	Total/NA

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

Lab Sample ID: 380-143933-3

No Detections.

Client Sample ID: TB: Ka'amilo Wells

Lab Sample ID: 380-143933-4

No Detections.

This Detection Summary does not include radiochemical test results.

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Client Sample Results

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

Job ID: 380-143933-1
SDG: Quarterly

Client Sample ID: AIEA WELLS PUMPS 1&2 (260)

Lab Sample ID: 380-143933-1

(331-203-TP400) P2

Date Collected: 04/03/25 09:36

Matrix: Drinking Water

Date Received: 04/04/25 10:36

Method: EPA-DW 524.2 - Total Trihalomethanes

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Trihalomethanes, Total	<0.50		0.50	ug/L			04/05/25 15:20	1

Method: EPA-DW 524.2 - Volatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Tertiary Butyl Alcohol (TBA)	<2.0		2.0	ug/L			04/06/25 02:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		70 - 130		04/06/25 02:32	1
4-Bromofluorobenzene (Surr)	103		70 - 130		04/06/25 02:32	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 130		04/06/25 02:32	1

Method: EPA-DW 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L			04/05/25 15:20	1
1,1,1-Trichloroethane	<0.50		0.50	ug/L			04/05/25 15:20	1
1,1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L			04/05/25 15:20	1
1,1,1,2-Trichloroethane	<0.50		0.50	ug/L			04/05/25 15:20	1
1,1-Dichloroethylene	<0.50		0.50	ug/L			04/05/25 15:20	1
1,1-Dichloroethane	<0.50		0.50	ug/L			04/05/25 15:20	1
1,1-Dichloropropene	<0.50		0.50	ug/L			04/05/25 15:20	1
1,2,3-Trichlorobenzene	<0.50		0.50	ug/L			04/05/25 15:20	1
1,2,3-Trichloropropane	<0.50		0.50	ug/L			04/05/25 15:20	1
1,2,4-Trichlorobenzene	<0.50		0.50	ug/L			04/05/25 15:20	1
1,2,4-Trimethylbenzene	<0.50		0.50	ug/L			04/05/25 15:20	1
1,2-Dichloroethane	<0.50		0.50	ug/L			04/05/25 15:20	1
1,2-Dichloropropane	<0.50		0.50	ug/L			04/05/25 15:20	1
1,3,5-Trimethylbenzene	<0.50		0.50	ug/L			04/05/25 15:20	1
1,3-Dichloropropane	<0.50		0.50	ug/L			04/05/25 15:20	1
1,3-Dichloropropene, Total	<0.50		0.50	ug/L			04/05/25 15:20	1
2,2-Dichloropropane	<0.50		0.50	ug/L			04/05/25 15:20	1
2-Butanone (MEK)	<5.0		5.0	ug/L			04/05/25 15:20	1
4-Methyl-2-pentanone (MIBK)	<5.0		5.0	ug/L			04/05/25 15:20	1
Acetone	<500		500	ug/L			04/05/25 15:20	1
Benzene	<0.50		0.50	ug/L			04/05/25 15:20	1
Bromobenzene	<0.50		0.50	ug/L			04/05/25 15:20	1
Bromochloromethane	<0.50		0.50	ug/L			04/05/25 15:20	1
Bromodichloromethane	<0.50		0.50	ug/L			04/05/25 15:20	1
Bromoethane	<0.50		0.50	ug/L			04/05/25 15:20	1
Bromoform	<0.50	*1	0.50	ug/L			04/05/25 15:20	1
Bromomethane (Methyl Bromide)	<0.50		0.50	ug/L			04/05/25 15:20	1
Carbon disulfide	<0.50		0.50	ug/L			04/05/25 15:20	1
Carbon tetrachloride	<0.50		0.50	ug/L			04/05/25 15:20	1
Chlorobenzene	<0.50		0.50	ug/L			04/05/25 15:20	1
Chlorodibromomethane	<0.50		0.50	ug/L			04/05/25 15:20	1
Chloroethane	<0.50		0.50	ug/L			04/05/25 15:20	1
Chloroform (Trichloromethane)	<0.50		0.50	ug/L			04/05/25 15:20	1
Chloromethane (methyl chloride)	<0.50		0.50	ug/L			04/05/25 15:20	1
cis-1,2-Dichloroethylene	<0.50		0.50	ug/L			04/05/25 15:20	1
cis-1,3-Dichloropropene	<0.50		0.50	ug/L			04/05/25 15:20	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-143933-1
SDG: Quarterly

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

Lab Sample ID: 380-143933-1

Date Collected: 04/03/25 09:36

Matrix: Drinking Water

Date Received: 04/04/25 10:36

Method: EPA-DW 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromomethane	<0.50		0.50	ug/L			04/05/25 15:20	1
Dichlorodifluoromethane	<0.50		0.50	ug/L			04/05/25 15:20	1
Dichloromethane	<0.50		0.50	ug/L			04/05/25 15:20	1
Diisopropyl ether	<3.0		3.0	ug/L			04/05/25 15:20	1
Ethylbenzene	<0.50		0.50	ug/L			04/05/25 15:20	1
Hexachlorobutadiene	<0.50		0.50	ug/L			04/05/25 15:20	1
Isopropylbenzene	<0.50		0.50	ug/L			04/05/25 15:20	1
m,p-Xylenes	<0.50		0.50	ug/L			04/05/25 15:20	1
m-Dichlorobenzene (1,3-DCB)	<0.50		0.50	ug/L			04/05/25 15:20	1
Methyl-tert-butyl Ether (MTBE)	<0.50		0.50	ug/L			04/05/25 15:20	1
Naphthalene	<0.50		0.50	ug/L			04/05/25 15:20	1
n-Butylbenzene	<0.50		0.50	ug/L			04/05/25 15:20	1
N-Propylbenzene	<0.50		0.50	ug/L			04/05/25 15:20	1
o-Chlorotoluene	<0.50		0.50	ug/L			04/05/25 15:20	1
o-Dichlorobenzene (1,2-DCB)	<0.50		0.50	ug/L			04/05/25 15:20	1
o-Xylene	<0.50		0.50	ug/L			04/05/25 15:20	1
p-Chlorotoluene	<0.50		0.50	ug/L			04/05/25 15:20	1
p-Dichlorobenzene (1,4-DCB)	<0.50		0.50	ug/L			04/05/25 15:20	1
p-Isopropyltoluene	<0.50		0.50	ug/L			04/05/25 15:20	1
sec-Butylbenzene	<0.50		0.50	ug/L			04/05/25 15:20	1
Styrene	<0.50		0.50	ug/L			04/05/25 15:20	1
Tert-amyl methyl ether	<3.0		3.0	ug/L			04/05/25 15:20	1
Tert-butyl ethyl ether	<3.0		3.0	ug/L			04/05/25 15:20	1
tert-Butylbenzene	<0.50		0.50	ug/L			04/05/25 15:20	1
Tetrachloroethene (PCE)	<0.50		0.50	ug/L			04/05/25 15:20	1
Toluene	<0.50		0.50	ug/L			04/05/25 15:20	1
trans-1,2-Dichloroethylene	<0.50		0.50	ug/L			04/05/25 15:20	1
trans-1,3-Dichloropropene	<0.50		0.50	ug/L			04/05/25 15:20	1
Trichloroethylene (TCE)	<0.50		0.50	ug/L			04/05/25 15:20	1
Trichlorofluoromethane (Freon 11)	<0.50		0.50	ug/L			04/05/25 15:20	1
Trichlorotrifluoroethane	<0.50		0.50	ug/L			04/05/25 15:20	1
Vinyl Chloride (VC)	<0.30		0.30	ug/L			04/05/25 15:20	1
Xylenes, Total	<0.50		0.50	ug/L			04/05/25 15:20	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	1.0	T J	ug/L		10.38	N/A		04/05/25 15:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		70 - 130		04/05/25 15:20	1
4-Bromofluorobenzene (Surr)	103		70 - 130		04/05/25 15:20	1
Toluene-d8 (Surr)	99		70 - 130		04/05/25 15:20	1

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		04/07/25 08:00	04/08/25 18:56	1
2,4'-DDE	<0.098		0.098	ug/L		04/07/25 08:00	04/08/25 18:56	1
2,4'-DDT	<0.098		0.098	ug/L		04/07/25 08:00	04/08/25 18:56	1
2,4-Dinitrotoluene	<0.098		0.098	ug/L		04/07/25 08:00	04/08/25 18:56	1
2,6-Dinitrotoluene	<0.098		0.098	ug/L		04/07/25 08:00	04/08/25 18:56	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-143933-1
SDG: Quarterly

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

Lab Sample ID: 380-143933-1

Date Collected: 04/03/25 09:36

Matrix: Drinking Water

Date Received: 04/04/25 10:36

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.098		0.098	ug/L		04/07/25 08:00	04/08/25 18:56	1
4,4'-DDE	<0.098		0.098	ug/L		04/07/25 08:00	04/08/25 18:56	1
4,4'-DDT	<0.098		0.098	ug/L		04/07/25 08:00	04/08/25 18:56	1
Acenaphthene	<0.098		0.098	ug/L		04/07/25 08:00	04/08/25 18:56	1
Acenaphthylene	<0.098		0.098	ug/L		04/07/25 08:00	04/08/25 18:56	1
Acetochlor	<0.098		0.098	ug/L		04/07/25 08:00	04/08/25 18:56	1
Alachlor	<0.049		0.049	ug/L		04/07/25 08:00	04/08/25 18:56	1
alpha-BHC	<0.098		0.098	ug/L		04/07/25 08:00	04/08/25 18:56	1
alpha-Chlordane	<0.049		0.049	ug/L		04/07/25 08:00	04/08/25 18:56	1
Anthracene	<0.020		0.020	ug/L		04/07/25 08:00	04/08/25 18:56	1
Atrazine	<0.049		0.049	ug/L		04/07/25 08:00	04/08/25 18:56	1
Benz(a)anthracene	<0.049		0.049	ug/L		04/07/25 08:00	04/08/25 18:56	1
Benzo[a]pyrene	<0.020		0.020	ug/L		04/07/25 08:00	04/08/25 18:56	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		04/07/25 08:00	04/08/25 18:56	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		04/07/25 08:00	04/08/25 18:56	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		04/07/25 08:00	04/08/25 18:56	1
beta-BHC	<0.098		0.098	ug/L		04/07/25 08:00	04/08/25 18:56	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		04/07/25 08:00	04/08/25 18:56	1
Aldrin	<0.0098		0.0098	ug/L		04/07/25 08:00	04/08/25 18:56	1
Bromacil	<0.098		0.098	ug/L		04/07/25 08:00	04/08/25 18:56	1
Butachlor	<0.049		0.049	ug/L		04/07/25 08:00	04/08/25 18:56	1
Butylbenzylphthalate	<0.49		0.49	ug/L		04/07/25 08:00	04/08/25 18:56	1
Chlorobenzilate	<0.098		0.098	ug/L		04/07/25 08:00	04/08/25 18:56	1
Chloroneb	<0.098		0.098	ug/L		04/07/25 08:00	04/08/25 18:56	1
Chlorothalonil (Draconil, Bravo)	<0.098		0.098	ug/L		04/07/25 08:00	04/08/25 18:56	1
Chlorpyrifos	<0.049		0.049	ug/L		04/07/25 08:00	04/08/25 18:56	1
Chrysene	<0.020		0.020	ug/L		04/07/25 08:00	04/08/25 18:56	1
delta-BHC	<0.098		0.098	ug/L		04/07/25 08:00	04/08/25 18:56	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		04/07/25 08:00	04/08/25 18:56	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		04/07/25 08:00	04/08/25 18:56	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		04/07/25 08:00	04/08/25 18:56	1
Dieldrin	<0.0098		0.0098	ug/L		04/07/25 08:00	04/08/25 18:56	1
Diethylphthalate	<0.49		0.49	ug/L		04/07/25 08:00	04/08/25 18:56	1
Dimethylphthalate	<0.49		0.49	ug/L		04/07/25 08:00	04/08/25 18:56	1
Di-n-butyl phthalate	<0.98		0.98	ug/L		04/07/25 08:00	04/08/25 18:56	1
Di-n-octyl phthalate	<0.098		0.098	ug/L		04/07/25 08:00	04/08/25 18:56	1
Endosulfan I (Alpha)	<0.098		0.098	ug/L		04/07/25 08:00	04/08/25 18:56	1
Endosulfan II (Beta)	<0.098		0.098	ug/L		04/07/25 08:00	04/08/25 18:56	1
Endosulfan sulfate	<0.098		0.098	ug/L		04/07/25 08:00	04/08/25 18:56	1
Endrin	<0.0098		0.0098	ug/L		04/07/25 08:00	04/08/25 18:56	1
Endrin aldehyde	<0.098		0.098	ug/L		04/07/25 08:00	04/08/25 18:56	1
EPTC	<0.098		0.098	ug/L		04/07/25 08:00	04/08/25 18:56	1
Fluoranthene	<0.098		0.098	ug/L		04/07/25 08:00	04/08/25 18:56	1
Fluorene	<0.049		0.049	ug/L		04/07/25 08:00	04/08/25 18:56	1
gamma-BHC (Lindane)	<0.0098		0.0098	ug/L		04/07/25 08:00	04/08/25 18:56	1
gamma-Chlordane	<0.049		0.049	ug/L		04/07/25 08:00	04/08/25 18:56	1
Heptachlor	<0.0098		0.0098	ug/L		04/07/25 08:00	04/08/25 18:56	1
Heptachlor epoxide (isomer B)	<0.0098		0.0098	ug/L		04/07/25 08:00	04/08/25 18:56	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-143933-1
SDG: Quarterly

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

Lab Sample ID: 380-143933-1

Date Collected: 04/03/25 09:36

Matrix: Drinking Water

Date Received: 04/04/25 10:36

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobenzene	<0.049		0.049	ug/L		04/07/25 08:00	04/08/25 18:56	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		04/07/25 08:00	04/08/25 18:56	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		04/07/25 08:00	04/08/25 18:56	1
Isophorone	<0.098		0.098	ug/L		04/07/25 08:00	04/08/25 18:56	1
Malathion	<0.098		0.098	ug/L		04/07/25 08:00	04/08/25 18:56	1
Methoxychlor	<0.049		0.049	ug/L		04/07/25 08:00	04/08/25 18:56	1
Metolachlor	<0.049		0.049	ug/L		04/07/25 08:00	04/08/25 18:56	1
Molinate	<0.098		0.098	ug/L		04/07/25 08:00	04/08/25 18:56	1
Naphthalene	<0.098		0.098	ug/L		04/07/25 08:00	04/08/25 18:56	1
Parathion	<0.098		0.098	ug/L		04/07/25 08:00	04/08/25 18:56	1
Pendimethalin (Penoxaline)	<0.098		0.098	ug/L		04/07/25 08:00	04/08/25 18:56	1
Phenanthrene	<0.039		0.039	ug/L		04/07/25 08:00	04/08/25 18:56	1
Propachlor	<0.049		0.049	ug/L		04/07/25 08:00	04/08/25 18:56	1
Pyrene	<0.049		0.049	ug/L		04/07/25 08:00	04/08/25 18:56	1
Simazine	<0.049		0.049	ug/L		04/07/25 08:00	04/08/25 18:56	1
Terbacil	<0.098		0.098	ug/L		04/07/25 08:00	04/08/25 18:56	1
Terbutylazine	<0.098		0.098	ug/L		04/07/25 08:00	04/08/25 18:56	1
Thiobencarb	<0.098		0.098	ug/L		04/07/25 08:00	04/08/25 18:56	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		04/07/25 08:00	04/08/25 18:56	1
trans-Nonachlor	<0.049		0.049	ug/L		04/07/25 08:00	04/08/25 18:56	1
Trifluralin	<0.098		0.098	ug/L		04/07/25 08:00	04/08/25 18:56	1
1-Methylnaphthalene	<0.098		0.098	ug/L		04/07/25 08:00	04/08/25 18:56	1
2-Methylnaphthalene	<0.098		0.098	ug/L		04/07/25 08:00	04/08/25 18:56	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	04/07/25 08:00	04/08/25 18:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	98		70 - 130	04/07/25 08:00	04/08/25 18:56	1
Perylene-d12	94		70 - 130	04/07/25 08:00	04/08/25 18:56	1
Triphenylphosphate	103		70 - 130	04/07/25 08:00	04/08/25 18:56	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.19		0.19	ug/L		04/08/25 13:10	04/14/25 16:42	1
2,4,5-Trichlorophenol	<4.8		4.8	ug/L		04/08/25 13:10	04/14/25 16:42	1
2,4,6-Trichlorophenol	<0.96		0.96	ug/L		04/08/25 13:10	04/14/25 16:42	1
2,4-Dichlorophenol	<0.96		0.96	ug/L		04/08/25 13:10	04/14/25 16:42	1
2,4-Dinitrophenol	<4.8		4.8	ug/L		04/08/25 13:10	04/14/25 16:42	1
2,6-Dichlorophenol	<4.8		4.8	ug/L		04/08/25 13:10	04/14/25 16:42	1
2-Chloronaphthalene	<0.19		0.19	ug/L		04/08/25 13:10	04/14/25 16:42	1
2-Chlorophenol	<0.19		0.19	ug/L		04/08/25 13:10	04/14/25 16:42	1
2-Methylnaphthalene	<0.19		0.19	ug/L		04/08/25 13:10	04/14/25 16:42	1
2-Methylphenol	<0.96		0.96	ug/L		04/08/25 13:10	04/14/25 16:42	1
2-Nitroaniline	<4.8		4.8	ug/L		04/08/25 13:10	04/14/25 16:42	1
2-Nitrophenol	<4.8		4.8	ug/L		04/08/25 13:10	04/14/25 16:42	1
3/4-Methylphenol	<1.9		1.9	ug/L		04/08/25 13:10	04/14/25 16:42	1
3-Nitroaniline	<4.8	*- *1	4.8	ug/L		04/08/25 13:10	04/14/25 16:42	1
4,6-Dinitro-2-methylphenol	<4.8		4.8	ug/L		04/08/25 13:10	04/14/25 16:42	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-143933-1
SDG: Quarterly

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

Lab Sample ID: 380-143933-1

Date Collected: 04/03/25 09:36

Matrix: Drinking Water

Date Received: 04/04/25 10:36

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4-Bromophenyl phenyl ether	<0.19		0.19	ug/L		04/08/25 13:10	04/14/25 16:42	1
4-Chloro-3-methylphenol	<0.96		0.96	ug/L		04/08/25 13:10	04/14/25 16:42	1
4-Chloroaniline	<4.8	*- *1	4.8	ug/L		04/08/25 13:10	04/14/25 16:42	1
4-Chlorophenyl phenyl ether	<0.19		0.19	ug/L		04/08/25 13:10	04/14/25 16:42	1
4 Nitroaniline	<4.8	*- *1	4.8	ug/L		04/08/25 13:10	04/14/25 16:42	1
4-Nitrophenol	<4.8		4.8	ug/L		04/08/25 13:10	04/14/25 16:42	1
Acenaphthene	<0.19		0.19	ug/L		04/08/25 13:10	04/14/25 16:42	1
Acenaphthylene	<0.19		0.19	ug/L		04/08/25 13:10	04/14/25 16:42	1
Aniline	<0.19	*- B	0.19	ug/L		04/08/25 13:10	04/14/25 16:42	1
Anthracene	<0.19		0.19	ug/L		04/08/25 13:10	04/14/25 16:42	1
Benzidine	<4.8	*- *1	4.8	ug/L		04/08/25 13:10	04/14/25 16:42	1
Benzo[a]anthracene	<0.19		0.19	ug/L		04/08/25 13:10	04/14/25 16:42	1
Benzo[a]pyrene	<0.19		0.19	ug/L		04/08/25 13:10	04/14/25 16:42	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		04/08/25 13:10	04/14/25 16:42	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		04/08/25 13:10	04/14/25 16:42	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		04/08/25 13:10	04/14/25 16:42	1
Benzoic acid	<9.6		9.6	ug/L		04/08/25 13:10	04/14/25 16:42	1
Benzyl alcohol	<0.96		0.96	ug/L		04/08/25 13:10	04/14/25 16:42	1
Bis(2-chloroethoxy)methane	<0.19		0.19	ug/L		04/08/25 13:10	04/14/25 16:42	1
Bis(2-chloroethyl)ether	<0.19		0.19	ug/L		04/08/25 13:10	04/14/25 16:42	1
bis (2-Chloroisopropyl) ether	<0.19		0.19	ug/L		04/08/25 13:10	04/14/25 16:42	1
Chrysene	<0.19		0.19	ug/L		04/08/25 13:10	04/14/25 16:42	1
Dibenz(a,h)anthracene	<0.19		0.19	ug/L		04/08/25 13:10	04/14/25 16:42	1
Dibenzofuran	<0.19		0.19	ug/L		04/08/25 13:10	04/14/25 16:42	1
Fluoranthene	<0.19		0.19	ug/L		04/08/25 13:10	04/14/25 16:42	1
Fluorene	<0.19		0.19	ug/L		04/08/25 13:10	04/14/25 16:42	1
Hexachloroethane	<0.19		0.19	ug/L		04/08/25 13:10	04/14/25 16:42	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		04/08/25 13:10	04/14/25 16:42	1
Naphthalene	<0.19		0.19	ug/L		04/08/25 13:10	04/14/25 16:42	1
Nitrobenzene	<0.19		0.19	ug/L		04/08/25 13:10	04/14/25 16:42	1
N-Nitrosodi-n-propylamine	<0.19		0.19	ug/L		04/08/25 13:10	04/14/25 16:42	1
N-Nitrosodiphenylamine	<0.19	*1	0.19	ug/L		04/08/25 13:10	04/14/25 16:42	1
Pentachlorophenol	<0.96		0.96	ug/L		04/08/25 13:10	04/14/25 16:42	1
Phenanthrene	<0.19		0.19	ug/L		04/08/25 13:10	04/14/25 16:42	1
Phenol	<0.96		0.96	ug/L		04/08/25 13:10	04/14/25 16:42	1
Pyrene	<0.19		0.19	ug/L		04/08/25 13:10	04/14/25 16:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	106		28 - 127	04/08/25 13:10	04/14/25 16:42	1
2-Fluorobiphenyl (Surr)	96		31 - 120	04/08/25 13:10	04/14/25 16:42	1
2-Fluorophenol (Surr)	45		17 - 120	04/08/25 13:10	04/14/25 16:42	1
Nitrobenzene-d5 (Surr)	96		27 - 120	04/08/25 13:10	04/14/25 16:42	1
Phenol-d6 (Surr)	27		10 - 120	04/08/25 13:10	04/14/25 16:42	1
p-Terphenyl-d14 (Surr)	102		45 - 120	04/08/25 13:10	04/14/25 16:42	1

Client Sample Results

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

Job ID: 380-143933-1
SDG: Quarterly

Client Sample ID: AIEA WELLS PUMPS 1&2 (260)

Lab Sample ID: 380-143933-1

(331-203-TP400) P2

Date Collected: 04/03/25 09:36

Matrix: Drinking Water

Date Received: 04/04/25 10:36

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

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Cyclopentane, 1,2,3,4,5-pentamethyl-	11	T J N	ug/L		2.32	1000152-79-7	04/08/25 13:10	04/17/25 21:30	1
2-Pentene, 1-bromo-3,4-dimethyl-	7.8	T J N	ug/L		2.53	922-99-6	04/08/25 13:10	04/17/25 21:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	88		33 - 139				04/08/25 13:10	04/17/25 21:30	1
2-Fluorobiphenyl (Surr)	87		33 - 126				04/08/25 13:10	04/17/25 21:30	1
2-Fluorophenol (Surr)	40		12 - 120				04/08/25 13:10	04/17/25 21:30	1
Nitrobenzene-d5 (Surr)	90		36 - 120				04/08/25 13:10	04/17/25 21:30	1
Phenol-d6 (Surr)	17		10 - 120				04/08/25 13:10	04/17/25 21:30	1
p-Terphenyl-d14 (Surr)	95		47 - 131				04/08/25 13:10	04/17/25 21:30	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			04/15/25 19:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		38 - 134				04/15/25 19:20	1

Method: EPA-DW2 504.1 - EDB, DBCP and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	<0.020		0.020	ug/L		04/09/25 11:50	04/09/25 17:41	1
1,2-Dibromo-3-Chloropropane	<0.010		0.010	ug/L		04/09/25 11:50	04/09/25 17:41	1
1,2-Dibromoethane	<0.010		0.010	ug/L		04/09/25 11:50	04/09/25 17:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dibromopropane (Surr)	108		60 - 140			04/09/25 11:50	04/09/25 17:41	1

Method: EPA 505 - Organochlorine Pesticides/PCBs (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene	<0.50		0.50	ug/L		04/08/25 13:30	04/09/25 06:12	1
Chlordane (n.o.s.)	<0.10		0.10	ug/L		04/08/25 13:30	04/09/25 06:12	1
PCB-1016	<0.070		0.070	ug/L		04/08/25 13:30	04/09/25 06:12	1
PCB-1221	<0.10		0.10	ug/L		04/08/25 13:30	04/09/25 06:12	1
PCB-1232	<0.10		0.10	ug/L		04/08/25 13:30	04/09/25 06:12	1
PCB-1242	<0.10		0.10	ug/L		04/08/25 13:30	04/09/25 06:12	1
PCB-1248	<0.10		0.10	ug/L		04/08/25 13:30	04/09/25 06:12	1
PCB-1254	<0.10		0.10	ug/L		04/08/25 13:30	04/09/25 06:12	1
PCB-1260	<0.070		0.070	ug/L		04/08/25 13:30	04/09/25 06:12	1
Polychlorinated biphenyls, Total	<0.10		0.10	ug/L		04/08/25 13:30	04/09/25 06:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	96		70 - 130			04/08/25 13:30	04/09/25 06:12	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		04/06/25 17:06	04/14/25 21:17	1
Motor Oil Range Organics [C24-C36]	<26		26	ug/L		04/06/25 17:06	04/14/25 21:17	1
C8-C18	<26		26	ug/L		04/06/25 17:06	04/14/25 21:17	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-143933-1
SDG: Quarterly

Client Sample ID: AIEA WELLS PUMPS 1&2 (260)

Lab Sample ID: 380-143933-1

(331-203-TP400) P2

Date Collected: 04/03/25 09:36

Matrix: Drinking Water

Date Received: 04/04/25 10:36

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	95		60 - 130	04/06/25 17:06	04/14/25 21:17	1

Method: SW846 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ethanol	<0.10		0.10	mg/L			04/12/25 18:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Hexafluoro-2-propanol (Surr)	87		54 - 120		04/12/25 18:59	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	370		5.0	ug/L			04/09/25 10:20	1
Chloride	120		2.5	mg/L			04/04/25 19:44	5
Nitrate as N	0.90		0.25	mg/L			04/04/25 19:44	5
Nitrite as N	<0.25		0.25	mg/L			04/04/25 19:44	5
Sulfate	17		1.3	mg/L			04/04/25 19:44	5

Method: EPA 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	21		0.10	mg/L			04/07/25 13:17	1
Magnesium	19	B ^2	0.10	mg/L			04/07/25 13:17	1
Potassium	2.5		0.10	mg/L			04/07/25 13:17	1
Sodium	41		0.10	mg/L			04/07/25 13:17	1

Method: EPA 200.8 - Mercury (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	ug/L			04/07/25 15:05	1

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	ug/L			04/07/25 15:05	1
Arsenic	<1.0		1.0	ug/L			04/07/25 15:05	1
Beryllium	<0.30		0.30	ug/L			04/07/25 15:05	1
Cadmium	<0.50		0.50	ug/L			04/07/25 15:05	1
Chromium	3.4		0.90	ug/L			04/07/25 15:05	1
Copper	10		1.0	ug/L			04/07/25 15:05	1
Lead	<0.50		0.50	ug/L			04/07/25 15:05	1
Nickel	<1.0		1.0	ug/L			04/07/25 15:05	1
Selenium	<2.0		2.0	ug/L			04/07/25 15:05	1
Silver	<0.50		0.50	ug/L			04/07/25 15:05	1
Thallium	<0.30		0.30	ug/L			04/07/25 15:05	1
Zinc	14		5.0	ug/L			04/07/25 15:05	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	59		4.0	mg/L			04/04/25 21:15	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	59		4.0	mg/L			04/04/25 21:15	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.0		4.0	mg/L			04/04/25 21:15	1
Specific Conductance (SM 2510B)	500		2.0	umhos/cm			04/04/25 21:15	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-143933-1
SDG: Quarterly

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

Lab Sample ID: 380-143933-1

Date Collected: 04/03/25 09:36

Matrix: Drinking Water

Date Received: 04/04/25 10:36

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	340		20	mg/L			04/07/25 13:37	1
Fluoride (SM 4500 F C)	0.050		0.050	mg/L			04/04/25 22:25	1
pH (SM 4500 H+ B)	7.8	HF		SU			04/04/25 21:15	1
Sulfide (SM 4500 S2 D)	<0.050		0.050	mg/L			04/07/25 17:38	1

Client Sample ID: Ka'amilo Wells

Lab Sample ID: 380-143933-2

Date Collected: 04/03/25 10:17

Matrix: Water

Date Received: 04/04/25 10:36

Method: EPA-DW 524.2 - Total Trihalomethanes

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Trihalomethanes, Total	<0.50		0.50	ug/L			04/05/25 15:42	1

Method: EPA-DW 524.2 - Volatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Tertiary Butyl Alcohol (TBA)	<2.0		2.0	ug/L			04/06/25 02:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		70 - 130		04/06/25 02:54	1
4-Bromofluorobenzene (Surr)	108		70 - 130		04/06/25 02:54	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 130		04/06/25 02:54	1

Method: EPA-DW 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L			04/05/25 15:42	1
1,1,1-Trichloroethane	<0.50		0.50	ug/L			04/05/25 15:42	1
1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L			04/05/25 15:42	1
1,1,2-Trichloroethane	<0.50		0.50	ug/L			04/05/25 15:42	1
1,1-Dichloroethylene	<0.50		0.50	ug/L			04/05/25 15:42	1
1,1-Dichloroethane	<0.50		0.50	ug/L			04/05/25 15:42	1
1,1-Dichloropropene	<0.50		0.50	ug/L			04/05/25 15:42	1
1,2,3-Trichlorobenzene	<0.50		0.50	ug/L			04/05/25 15:42	1
1,2,3-Trichloropropane	<0.50		0.50	ug/L			04/05/25 15:42	1
1,2,4-Trichlorobenzene	<0.50		0.50	ug/L			04/05/25 15:42	1
1,2,4-Trimethylbenzene	<0.50		0.50	ug/L			04/05/25 15:42	1
1,2-Dichloroethane	<0.50		0.50	ug/L			04/05/25 15:42	1
1,2-Dichloropropane	<0.50		0.50	ug/L			04/05/25 15:42	1
1,3,5-Trimethylbenzene	<0.50		0.50	ug/L			04/05/25 15:42	1
1,3-Dichloropropane	<0.50		0.50	ug/L			04/05/25 15:42	1
1,3-Dichloropropene, Total	<0.50		0.50	ug/L			04/05/25 15:42	1
2,2-Dichloropropane	<0.50		0.50	ug/L			04/05/25 15:42	1
2-Butanone (MEK)	<5.0		5.0	ug/L			04/05/25 15:42	1
4-Methyl-2-pentanone (MIBK)	<5.0		5.0	ug/L			04/05/25 15:42	1
Acetone	<500		500	ug/L			04/05/25 15:42	1
Benzene	<0.50		0.50	ug/L			04/05/25 15:42	1
Bromobenzene	<0.50		0.50	ug/L			04/05/25 15:42	1
Bromochloromethane	<0.50		0.50	ug/L			04/05/25 15:42	1
Bromodichloromethane	<0.50		0.50	ug/L			04/05/25 15:42	1
Bromoethane	<0.50		0.50	ug/L			04/05/25 15:42	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-143933-1
SDG: Quarterly

Client Sample ID: Ka'amilo Wells

Lab Sample ID: 380-143933-2

Date Collected: 04/03/25 10:17

Matrix: Water

Date Received: 04/04/25 10:36

Method: EPA-DW 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	<0.50	*1	0.50	ug/L			04/05/25 15:42	1
Bromomethane (Methyl Bromide)	<0.50		0.50	ug/L			04/05/25 15:42	1
Carbon disulfide	<0.50		0.50	ug/L			04/05/25 15:42	1
Carbon tetrachloride	<0.50		0.50	ug/L			04/05/25 15:42	1
Chlorobenzene	<0.50		0.50	ug/L			04/05/25 15:42	1
Chlorodibromomethane	<0.50		0.50	ug/L			04/05/25 15:42	1
Chloroethane	<0.50		0.50	ug/L			04/05/25 15:42	1
Chloroform (Trichloromethane)	<0.50		0.50	ug/L			04/05/25 15:42	1
Chloromethane (methyl chloride)	<0.50		0.50	ug/L			04/05/25 15:42	1
cis-1,2-Dichloroethylene	<0.50		0.50	ug/L			04/05/25 15:42	1
cis-1,3-Dichloropropene	<0.50		0.50	ug/L			04/05/25 15:42	1
Dibromomethane	<0.50		0.50	ug/L			04/05/25 15:42	1
Dichlorodifluoromethane	<0.50		0.50	ug/L			04/05/25 15:42	1
Dichloromethane	<0.50		0.50	ug/L			04/05/25 15:42	1
Diisopropyl ether	<3.0		3.0	ug/L			04/05/25 15:42	1
Ethylbenzene	<0.50		0.50	ug/L			04/05/25 15:42	1
Hexachlorobutadiene	<0.50		0.50	ug/L			04/05/25 15:42	1
Isopropylbenzene	<0.50		0.50	ug/L			04/05/25 15:42	1
m,p-Xylenes	<0.50		0.50	ug/L			04/05/25 15:42	1
m-Dichlorobenzene (1,3-DCB)	<0.50		0.50	ug/L			04/05/25 15:42	1
Methyl-tert-butyl Ether (MTBE)	<0.50		0.50	ug/L			04/05/25 15:42	1
Naphthalene	<0.50		0.50	ug/L			04/05/25 15:42	1
n-Butylbenzene	<0.50		0.50	ug/L			04/05/25 15:42	1
N-Propylbenzene	<0.50		0.50	ug/L			04/05/25 15:42	1
o-Chlorotoluene	<0.50		0.50	ug/L			04/05/25 15:42	1
o-Dichlorobenzene (1,2-DCB)	<0.50		0.50	ug/L			04/05/25 15:42	1
o-Xylene	<0.50		0.50	ug/L			04/05/25 15:42	1
p-Chlorotoluene	<0.50		0.50	ug/L			04/05/25 15:42	1
p-Dichlorobenzene (1,4-DCB)	<0.50		0.50	ug/L			04/05/25 15:42	1
p-Isopropyltoluene	<0.50		0.50	ug/L			04/05/25 15:42	1
sec-Butylbenzene	<0.50		0.50	ug/L			04/05/25 15:42	1
Styrene	<0.50		0.50	ug/L			04/05/25 15:42	1
Tert-amyl methyl ether	<3.0		3.0	ug/L			04/05/25 15:42	1
Tert-butyl ethyl ether	<3.0		3.0	ug/L			04/05/25 15:42	1
tert-Butylbenzene	<0.50		0.50	ug/L			04/05/25 15:42	1
Tetrachloroethene (PCE)	<0.50		0.50	ug/L			04/05/25 15:42	1
Toluene	<0.50		0.50	ug/L			04/05/25 15:42	1
trans-1,2-Dichloroethylene	<0.50		0.50	ug/L			04/05/25 15:42	1
trans-1,3-Dichloropropene	<0.50		0.50	ug/L			04/05/25 15:42	1
Trichloroethylene (TCE)	<0.50		0.50	ug/L			04/05/25 15:42	1
Trichlorofluoromethane (Freon 11)	<0.50		0.50	ug/L			04/05/25 15:42	1
Trichlorotrifluoroethane	<0.50		0.50	ug/L			04/05/25 15:42	1
Vinyl Chloride (VC)	<0.30		0.30	ug/L			04/05/25 15:42	1
Xylenes, Total	<0.50		0.50	ug/L			04/05/25 15:42	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	12	T J	ug/L		9.02	N/A		04/05/25 16:04	1
Unknown	0.59	T J	ug/L		10.38	N/A		04/05/25 15:42	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-143933-1
SDG: Quarterly

Client Sample ID: Ka'amilo Wells

Lab Sample ID: 380-143933-2

Date Collected: 04/03/25 10:17

Matrix: Water

Date Received: 04/04/25 10:36

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		70 - 130		04/05/25 15:42	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 130		04/05/25 16:04	1
4-Bromofluorobenzene (Surr)	98		70 - 130		04/05/25 15:42	1
4-Bromofluorobenzene (Surr)	102		70 - 130		04/05/25 16:04	1
Toluene-d8 (Surr)	101		70 - 130		04/05/25 15:42	1
Toluene-d8 (Surr)	99		70 - 130		04/05/25 16:04	1

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		04/07/25 08:00	04/08/25 19:16	1
2,4'-DDE	<0.097		0.097	ug/L		04/07/25 08:00	04/08/25 19:16	1
2,4'-DDT	<0.097		0.097	ug/L		04/07/25 08:00	04/08/25 19:16	1
2,4-Dinitrotoluene	<0.097		0.097	ug/L		04/07/25 08:00	04/08/25 19:16	1
2,6-Dinitrotoluene	<0.097		0.097	ug/L		04/07/25 08:00	04/08/25 19:16	1
4,4'-DDD	<0.097		0.097	ug/L		04/07/25 08:00	04/08/25 19:16	1
4,4'-DDE	<0.097		0.097	ug/L		04/07/25 08:00	04/08/25 19:16	1
4,4'-DDT	<0.097		0.097	ug/L		04/07/25 08:00	04/08/25 19:16	1
Acenaphthene	<0.097		0.097	ug/L		04/07/25 08:00	04/08/25 19:16	1
Acenaphthylene	<0.097		0.097	ug/L		04/07/25 08:00	04/08/25 19:16	1
Acetochlor	<0.097		0.097	ug/L		04/07/25 08:00	04/08/25 19:16	1
Alachlor	<0.049		0.049	ug/L		04/07/25 08:00	04/08/25 19:16	1
alpha-BHC	<0.097		0.097	ug/L		04/07/25 08:00	04/08/25 19:16	1
alpha-Chlordane	<0.049		0.049	ug/L		04/07/25 08:00	04/08/25 19:16	1
Anthracene	<0.019		0.019	ug/L		04/07/25 08:00	04/08/25 19:16	1
Atrazine	<0.049		0.049	ug/L		04/07/25 08:00	04/08/25 19:16	1
Benz(a)anthracene	<0.049		0.049	ug/L		04/07/25 08:00	04/08/25 19:16	1
Benzo[a]pyrene	<0.019		0.019	ug/L		04/07/25 08:00	04/08/25 19:16	1
Benzo[b]fluoranthene	<0.019		0.019	ug/L		04/07/25 08:00	04/08/25 19:16	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		04/07/25 08:00	04/08/25 19:16	1
Benzo[k]fluoranthene	<0.019		0.019	ug/L		04/07/25 08:00	04/08/25 19:16	1
beta-BHC	<0.097		0.097	ug/L		04/07/25 08:00	04/08/25 19:16	1
Bis(2-ethylhexyl) phthalate	<0.58		0.58	ug/L		04/07/25 08:00	04/08/25 19:16	1
Aldrin	<0.0097		0.0097	ug/L		04/07/25 08:00	04/08/25 19:16	1
Bromacil	<0.097		0.097	ug/L		04/07/25 08:00	04/08/25 19:16	1
Butachlor	<0.049		0.049	ug/L		04/07/25 08:00	04/08/25 19:16	1
Butylbenzylphthalate	<0.49		0.49	ug/L		04/07/25 08:00	04/08/25 19:16	1
Chlorobenzilate	<0.097		0.097	ug/L		04/07/25 08:00	04/08/25 19:16	1
Chloroneb	<0.097		0.097	ug/L		04/07/25 08:00	04/08/25 19:16	1
Chlorothalonil (Draconil, Bravo)	<0.097		0.097	ug/L		04/07/25 08:00	04/08/25 19:16	1
Chlorpyrifos	<0.049		0.049	ug/L		04/07/25 08:00	04/08/25 19:16	1
Chrysene	<0.019		0.019	ug/L		04/07/25 08:00	04/08/25 19:16	1
delta-BHC	<0.097		0.097	ug/L		04/07/25 08:00	04/08/25 19:16	1
Di(2-ethylhexyl)adipate	<0.58		0.58	ug/L		04/07/25 08:00	04/08/25 19:16	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		04/07/25 08:00	04/08/25 19:16	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		04/07/25 08:00	04/08/25 19:16	1
Dieldrin	0.037		0.0097	ug/L		04/07/25 08:00	04/08/25 19:16	1
Diethylphthalate	<0.49		0.49	ug/L		04/07/25 08:00	04/08/25 19:16	1
Dimethylphthalate	<0.49		0.49	ug/L		04/07/25 08:00	04/08/25 19:16	1
Di-n-butyl phthalate	<0.97		0.97	ug/L		04/07/25 08:00	04/08/25 19:16	1
Di-n-octyl phthalate	<0.097		0.097	ug/L		04/07/25 08:00	04/08/25 19:16	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-143933-1
SDG: Quarterly

Client Sample ID: Ka'amilo Wells

Lab Sample ID: 380-143933-2

Date Collected: 04/03/25 10:17

Matrix: Water

Date Received: 04/04/25 10:36

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan I (Alpha)	<0.097		0.097	ug/L		04/07/25 08:00	04/08/25 19:16	1
Endosulfan II (Beta)	<0.097		0.097	ug/L		04/07/25 08:00	04/08/25 19:16	1
Endosulfan sulfate	<0.097		0.097	ug/L		04/07/25 08:00	04/08/25 19:16	1
Endrin	<0.0097		0.0097	ug/L		04/07/25 08:00	04/08/25 19:16	1
Endrin aldehyde	<0.097		0.097	ug/L		04/07/25 08:00	04/08/25 19:16	1
EPTC	<0.097		0.097	ug/L		04/07/25 08:00	04/08/25 19:16	1
Fluoranthene	<0.097		0.097	ug/L		04/07/25 08:00	04/08/25 19:16	1
Fluorene	<0.049		0.049	ug/L		04/07/25 08:00	04/08/25 19:16	1
gamma-BHC (Lindane)	<0.0097		0.0097	ug/L		04/07/25 08:00	04/08/25 19:16	1
gamma-Chlordane	<0.049		0.049	ug/L		04/07/25 08:00	04/08/25 19:16	1
Heptachlor	<0.0097		0.0097	ug/L		04/07/25 08:00	04/08/25 19:16	1
Heptachlor epoxide (isomer B)	<0.0097		0.0097	ug/L		04/07/25 08:00	04/08/25 19:16	1
Hexachlorobenzene	<0.049		0.049	ug/L		04/07/25 08:00	04/08/25 19:16	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		04/07/25 08:00	04/08/25 19:16	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		04/07/25 08:00	04/08/25 19:16	1
Isophorone	<0.097		0.097	ug/L		04/07/25 08:00	04/08/25 19:16	1
Malathion	<0.097		0.097	ug/L		04/07/25 08:00	04/08/25 19:16	1
Methoxychlor	<0.049		0.049	ug/L		04/07/25 08:00	04/08/25 19:16	1
Metolachlor	<0.049		0.049	ug/L		04/07/25 08:00	04/08/25 19:16	1
Molinate	<0.097		0.097	ug/L		04/07/25 08:00	04/08/25 19:16	1
Naphthalene	<0.097		0.097	ug/L		04/07/25 08:00	04/08/25 19:16	1
Parathion	<0.097		0.097	ug/L		04/07/25 08:00	04/08/25 19:16	1
Pendimethalin (Penoxaline)	<0.097		0.097	ug/L		04/07/25 08:00	04/08/25 19:16	1
Phenanthrene	<0.039		0.039	ug/L		04/07/25 08:00	04/08/25 19:16	1
Propachlor	<0.049		0.049	ug/L		04/07/25 08:00	04/08/25 19:16	1
Pyrene	<0.049		0.049	ug/L		04/07/25 08:00	04/08/25 19:16	1
Simazine	<0.049		0.049	ug/L		04/07/25 08:00	04/08/25 19:16	1
Terbacil	<0.097		0.097	ug/L		04/07/25 08:00	04/08/25 19:16	1
Terbuthylazine	<0.097		0.097	ug/L		04/07/25 08:00	04/08/25 19:16	1
Thiobencarb	<0.097		0.097	ug/L		04/07/25 08:00	04/08/25 19:16	1
Total Permethrin (mixed isomers)	<0.19		0.19	ug/L		04/07/25 08:00	04/08/25 19:16	1
trans-Nonachlor	<0.049		0.049	ug/L		04/07/25 08:00	04/08/25 19:16	1
Trifluralin	<0.097		0.097	ug/L		04/07/25 08:00	04/08/25 19:16	1
1-Methylnaphthalene	<0.097		0.097	ug/L		04/07/25 08:00	04/08/25 19:16	1
2-Methylnaphthalene	<0.097		0.097	ug/L		04/07/25 08:00	04/08/25 19:16	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	04/07/25 08:00	04/08/25 19:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	97		70 - 130	04/07/25 08:00	04/08/25 19:16	1
Perylene-d12	91		70 - 130	04/07/25 08:00	04/08/25 19:16	1
Triphenylphosphate	104		70 - 130	04/07/25 08:00	04/08/25 19:16	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		04/08/25 13:10	04/14/25 17:04	1
2,4,5-Trichlorophenol	<4.8		4.8	ug/L		04/08/25 13:10	04/14/25 17:04	1
2,4,6-Trichlorophenol	<0.95		0.95	ug/L		04/08/25 13:10	04/14/25 17:04	1
2,4-Dichlorophenol	<0.95		0.95	ug/L		04/08/25 13:10	04/14/25 17:04	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-143933-1
SDG: Quarterly

Client Sample ID: Ka'amilo Wells

Lab Sample ID: 380-143933-2

Date Collected: 04/03/25 10:17

Matrix: Water

Date Received: 04/04/25 10:36

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrophenol	<4.8		4.8	ug/L		04/08/25 13:10	04/14/25 17:04	1
2,6-Dichlorophenol	<4.8		4.8	ug/L		04/08/25 13:10	04/14/25 17:04	1
2-Chloronaphthalene	<0.19		0.19	ug/L		04/08/25 13:10	04/14/25 17:04	1
2-Chlorophenol	<0.19		0.19	ug/L		04/08/25 13:10	04/14/25 17:04	1
2-Methylnaphthalene	<0.19		0.19	ug/L		04/08/25 13:10	04/14/25 17:04	1
2-Methylphenol	<0.95		0.95	ug/L		04/08/25 13:10	04/14/25 17:04	1
2-Nitroaniline	<4.8		4.8	ug/L		04/08/25 13:10	04/14/25 17:04	1
2-Nitrophenol	<4.8		4.8	ug/L		04/08/25 13:10	04/14/25 17:04	1
3/4-Methylphenol	<1.9		1.9	ug/L		04/08/25 13:10	04/14/25 17:04	1
3-Nitroaniline	<4.8	*- *1	4.8	ug/L		04/08/25 13:10	04/14/25 17:04	1
4,6-Dinitro-2-methylphenol	<4.8		4.8	ug/L		04/08/25 13:10	04/14/25 17:04	1
4-Bromophenyl phenyl ether	<0.19		0.19	ug/L		04/08/25 13:10	04/14/25 17:04	1
4-Chloro-3-methylphenol	<0.95		0.95	ug/L		04/08/25 13:10	04/14/25 17:04	1
4-Chloroaniline	<4.8	*- *1	4.8	ug/L		04/08/25 13:10	04/14/25 17:04	1
4-Chlorophenyl phenyl ether	<0.19		0.19	ug/L		04/08/25 13:10	04/14/25 17:04	1
4-Nitroaniline	<4.8	*- *1	4.8	ug/L		04/08/25 13:10	04/14/25 17:04	1
4-Nitrophenol	<4.8		4.8	ug/L		04/08/25 13:10	04/14/25 17:04	1
Acenaphthene	<0.19		0.19	ug/L		04/08/25 13:10	04/14/25 17:04	1
Acenaphthylene	<0.19		0.19	ug/L		04/08/25 13:10	04/14/25 17:04	1
Aniline	<0.19	*- B	0.19	ug/L		04/08/25 13:10	04/14/25 17:04	1
Anthracene	<0.19		0.19	ug/L		04/08/25 13:10	04/14/25 17:04	1
Benzidine	<4.8	*- *1	4.8	ug/L		04/08/25 13:10	04/14/25 17:04	1
Benzo[a]anthracene	<0.19		0.19	ug/L		04/08/25 13:10	04/14/25 17:04	1
Benzo[a]pyrene	<0.19		0.19	ug/L		04/08/25 13:10	04/14/25 17:04	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		04/08/25 13:10	04/14/25 17:04	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		04/08/25 13:10	04/14/25 17:04	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		04/08/25 13:10	04/14/25 17:04	1
Benzoic acid	<9.5		9.5	ug/L		04/08/25 13:10	04/14/25 17:04	1
Benzyl alcohol	<0.95		0.95	ug/L		04/08/25 13:10	04/14/25 17:04	1
Bis(2-chloroethoxy)methane	<0.19		0.19	ug/L		04/08/25 13:10	04/14/25 17:04	1
Bis(2-chloroethyl)ether	<0.19		0.19	ug/L		04/08/25 13:10	04/14/25 17:04	1
bis (2-Chloroisopropyl) ether	<0.19		0.19	ug/L		04/08/25 13:10	04/14/25 17:04	1
Chrysene	<0.19		0.19	ug/L		04/08/25 13:10	04/14/25 17:04	1
Dibenz(a,h)anthracene	<0.19		0.19	ug/L		04/08/25 13:10	04/14/25 17:04	1
Dibenzofuran	<0.19		0.19	ug/L		04/08/25 13:10	04/14/25 17:04	1
Fluoranthene	<0.19		0.19	ug/L		04/08/25 13:10	04/14/25 17:04	1
Fluorene	<0.19		0.19	ug/L		04/08/25 13:10	04/14/25 17:04	1
Hexachloroethane	<0.19		0.19	ug/L		04/08/25 13:10	04/14/25 17:04	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		04/08/25 13:10	04/14/25 17:04	1
Naphthalene	<0.19		0.19	ug/L		04/08/25 13:10	04/14/25 17:04	1
Nitrobenzene	<0.19		0.19	ug/L		04/08/25 13:10	04/14/25 17:04	1
N-Nitrosodi-n-propylamine	<0.19		0.19	ug/L		04/08/25 13:10	04/14/25 17:04	1
N-Nitrosodiphenylamine	<0.19	*1	0.19	ug/L		04/08/25 13:10	04/14/25 17:04	1
Pentachlorophenol	<0.95		0.95	ug/L		04/08/25 13:10	04/14/25 17:04	1
Phenanthrene	<0.19		0.19	ug/L		04/08/25 13:10	04/14/25 17:04	1
Phenol	<0.95		0.95	ug/L		04/08/25 13:10	04/14/25 17:04	1
Pyrene	<0.19		0.19	ug/L		04/08/25 13:10	04/14/25 17:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	112		28 - 127	04/08/25 13:10	04/14/25 17:04	1

Euofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-143933-1
SDG: Quarterly

Client Sample ID: Ka'amilo Wells

Lab Sample ID: 380-143933-2

Date Collected: 04/03/25 10:17

Matrix: Water

Date Received: 04/04/25 10:36

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	99		31 - 120	04/08/25 13:10	04/14/25 17:04	1
2-Fluorophenol (Surr)	50		17 - 120	04/08/25 13:10	04/14/25 17:04	1
Nitrobenzene-d5 (Surr)	101		27 - 120	04/08/25 13:10	04/14/25 17:04	1
Phenol-d6 (Surr)	29		10 - 120	04/08/25 13:10	04/14/25 17:04	1
p-Terphenyl-d14 (Surr)	103		45 - 120	04/08/25 13:10	04/14/25 17:04	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
Cyclopentane, 1,2,3,4,5-pentamethyl-	12	T J N	ug/L		2.32	1000152-79-7	04/08/25 13:10	04/17/25 21:53	1
Cyclohexane, 1-methyl-2-propyl-	9.8	T J N	ug/L		2.53	4291-79-6	04/08/25 13:10	04/17/25 21:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	89		33 - 139	04/08/25 13:10	04/17/25 21:53	1
2-Fluorobiphenyl (Surr)	92		33 - 126	04/08/25 13:10	04/17/25 21:53	1
2-Fluorophenol (Surr)	46		12 - 120	04/08/25 13:10	04/17/25 21:53	1
Nitrobenzene-d5 (Surr)	85		36 - 120	04/08/25 13:10	04/17/25 21:53	1
Phenol-d6 (Surr)	14		10 - 120	04/08/25 13:10	04/17/25 21:53	1
p-Terphenyl-d14 (Surr)	92		47 - 131	04/08/25 13:10	04/17/25 21:53	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			04/15/25 19:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		38 - 134		04/15/25 19:45	1

Method: EPA-DW2 504.1 - EDB, DBCP and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	<0.020		0.020	ug/L		04/09/25 11:50	04/09/25 18:02	1
1,2-Dibromo-3-Chloropropane	<0.0099		0.0099	ug/L		04/09/25 11:50	04/09/25 18:02	1
1,2-Dibromoethane	<0.0099		0.0099	ug/L		04/09/25 11:50	04/09/25 18:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dibromopropane (Surr)	111		60 - 140	04/09/25 11:50	04/09/25 18:02	1

Method: EPA 505 - Organochlorine Pesticides/PCBs (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene	<0.50		0.50	ug/L		04/08/25 13:30	04/09/25 06:34	1
Chlordane (n.o.s.)	0.14		0.10	ug/L		04/08/25 13:30	04/09/25 06:34	1
PCB-1016	<0.070		0.070	ug/L		04/08/25 13:30	04/09/25 06:34	1
PCB-1221	<0.10		0.10	ug/L		04/08/25 13:30	04/09/25 06:34	1
PCB-1232	<0.10		0.10	ug/L		04/08/25 13:30	04/09/25 06:34	1
PCB-1242	<0.10		0.10	ug/L		04/08/25 13:30	04/09/25 06:34	1
PCB-1248	<0.10		0.10	ug/L		04/08/25 13:30	04/09/25 06:34	1
PCB-1254	<0.10		0.10	ug/L		04/08/25 13:30	04/09/25 06:34	1
PCB-1260	<0.070		0.070	ug/L		04/08/25 13:30	04/09/25 06:34	1
Polychlorinated biphenyls, Total	<0.10		0.10	ug/L		04/08/25 13:30	04/09/25 06:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	95		70 - 130	04/08/25 13:30	04/09/25 06:34	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-143933-1
SDG: Quarterly

Client Sample ID: Ka'amilo Wells

Lab Sample ID: 380-143933-2

Date Collected: 04/03/25 10:17

Matrix: Water

Date Received: 04/04/25 10:36

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		04/06/25 17:06	04/14/25 21:39	1
Motor Oil Range Organics [C24-C36]	<26		26	ug/L		04/06/25 17:06	04/14/25 21:39	1
C8-C18	<26		26	ug/L		04/06/25 17:06	04/14/25 21:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	93		60 - 130			04/06/25 17:06	04/14/25 21:39	1

Method: SW846 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ethanol	<0.10		0.10	mg/L			04/12/25 19:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Hexafluoro-2-propanol (Surr)	87		54 - 120				04/12/25 19:20	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	280		5.0	ug/L			04/09/25 10:47	1
Chloride	150		2.5	mg/L			04/04/25 19:57	5
Nitrate as N	1.4		0.25	mg/L			04/04/25 19:57	5
Nitrite as N	<0.25		0.25	mg/L			04/04/25 19:57	5
Sulfate	26		1.3	mg/L			04/04/25 19:57	5

Method: EPA 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	25		0.10	mg/L			04/07/25 13:18	1
Magnesium	24	B ^2	0.10	mg/L			04/07/25 13:18	1
Potassium	2.9		0.10	mg/L			04/07/25 13:18	1
Sodium	57		0.10	mg/L			04/07/25 13:18	1

Method: EPA 200.8 - Mercury (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	ug/L			04/07/25 15:11	1

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	ug/L			04/07/25 15:11	1
Arsenic	<1.0		1.0	ug/L			04/07/25 15:11	1
Beryllium	<0.30		0.30	ug/L			04/07/25 15:11	1
Cadmium	<0.50		0.50	ug/L			04/07/25 15:11	1
Chromium	2.6		0.90	ug/L			04/07/25 15:11	1
Copper	67		1.0	ug/L			04/07/25 15:11	1
Lead	<0.50		0.50	ug/L			04/07/25 15:11	1
Nickel	<1.0		1.0	ug/L			04/07/25 15:11	1
Selenium	2.7		2.0	ug/L			04/07/25 15:11	1
Silver	<0.50		0.50	ug/L			04/07/25 15:11	1
Thallium	<0.30		0.30	ug/L			04/07/25 15:11	1
Zinc	17		5.0	ug/L			04/07/25 15:11	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	76		4.0	mg/L			04/04/25 21:06	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-143933-1
SDG: Quarterly

Client Sample ID: Ka'amilo Wells

Lab Sample ID: 380-143933-2

Date Collected: 04/03/25 10:17

Matrix: Water

Date Received: 04/04/25 10:36

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃ (SM 2320B)	76		4.0	mg/L			04/04/25 21:06	1
Carbonate Alkalinity as CaCO ₃ (SM 2320B)	<4.0		4.0	mg/L			04/04/25 21:06	1
Specific Conductance (SM 2510B)	650		2.0	umhos/cm			04/04/25 21:06	1
Total Dissolved Solids (SM 2540C)	410		20	mg/L			04/07/25 13:37	1
Fluoride (SM 4500 F C)	0.051		0.050	mg/L			04/05/25 00:20	1
pH (SM 4500 H+ B)	7.6	HF		SU			04/04/25 21:06	1
Sulfide (SM 4500 S2 D)	<0.050		0.050	mg/L			04/07/25 17:38	1

Client Sample ID: TB: AIEA WELLS PUMPS 1&2 (260)

Lab Sample ID: 380-143933-3

(331-203-TP400)

Date Collected: 04/03/25 09:36

Matrix: Water

Date Received: 04/04/25 10:36

Method: EPA-DW 524.2 - Volatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Tertiary Butyl Alcohol (TBA)	<2.0		2.0	ug/L			04/06/25 03:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		70 - 130				04/06/25 03:17	1
4-Bromofluorobenzene (Surr)	101		70 - 130				04/06/25 03:17	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 130				04/06/25 03:17	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			04/15/25 17:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		38 - 134				04/15/25 17:17	1

Method: EPA-DW2 504.1 - EDB, DBCP and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	<0.020		0.020	ug/L		04/09/25 11:50	04/09/25 16:16	1
1,2-Dibromo-3-Chloropropane	<0.010		0.010	ug/L		04/09/25 11:50	04/09/25 16:16	1
1,2-Dibromoethane	<0.010		0.010	ug/L		04/09/25 11:50	04/09/25 16:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dibromopropane (Surr)	107		60 - 140			04/09/25 11:50	04/09/25 16:16	1

Client Sample ID: TB: Ka'amilo Wells

Lab Sample ID: 380-143933-4

Date Collected: 04/03/25 10:17

Matrix: Water

Date Received: 04/04/25 10:36

Method: EPA-DW 524.2 - Total Trihalomethanes

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Trihalomethanes, Total	<0.50		0.50	ug/L			04/05/25 16:27	1

Method: EPA-DW 524.2 - Volatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Tertiary Butyl Alcohol (TBA)	<2.0		2.0	ug/L			04/06/25 03:39	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-143933-1
SDG: Quarterly

Client Sample ID: TB: Ka'amilo Wells

Lab Sample ID: 380-143933-4

Date Collected: 04/03/25 10:17

Matrix: Water

Date Received: 04/04/25 10:36

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		70 - 130		04/06/25 03:39	1
4-Bromofluorobenzene (Surr)	102		70 - 130		04/06/25 03:39	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 130		04/06/25 03:39	1

Method: EPA-DW 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L			04/05/25 16:27	1
1,1,1-Trichloroethane	<0.50		0.50	ug/L			04/05/25 16:27	1
1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L			04/05/25 16:27	1
1,1,2-Trichloroethane	<0.50		0.50	ug/L			04/05/25 16:27	1
1,1-Dichloroethane	<0.50		0.50	ug/L			04/05/25 16:27	1
1,1-Dichloroethylene	<0.50		0.50	ug/L			04/05/25 16:27	1
1,1-Dichloropropene	<0.50		0.50	ug/L			04/05/25 16:27	1
1,2,3-Trichlorobenzene	<0.50		0.50	ug/L			04/05/25 16:27	1
1,2,3-Trichloropropane	<0.50		0.50	ug/L			04/05/25 16:27	1
1,2,4-Trichlorobenzene	<0.50		0.50	ug/L			04/05/25 16:27	1
1,2,4-Trimethylbenzene	<0.50		0.50	ug/L			04/05/25 16:27	1
1,2-Dichloroethane	<0.50		0.50	ug/L			04/05/25 16:27	1
1,2-Dichloropropane	<0.50		0.50	ug/L			04/05/25 16:27	1
1,3,5-Trimethylbenzene	<0.50		0.50	ug/L			04/05/25 16:27	1
1,3-Dichloropropane	<0.50		0.50	ug/L			04/05/25 16:27	1
2,2-Dichloropropane	<0.50		0.50	ug/L			04/05/25 16:27	1
2-Butanone (MEK)	<5.0		5.0	ug/L			04/05/25 16:27	1
4-Methyl-2-pentanone (MIBK)	<5.0		5.0	ug/L			04/05/25 16:27	1
Acetone	<500		500	ug/L			04/05/25 16:27	1
Benzene	<0.50		0.50	ug/L			04/05/25 16:27	1
Bromobenzene	<0.50		0.50	ug/L			04/05/25 16:27	1
Bromochloromethane	<0.50		0.50	ug/L			04/05/25 16:27	1
Bromodichloromethane	<0.50		0.50	ug/L			04/05/25 16:27	1
Bromoform	<0.50	*1	0.50	ug/L			04/05/25 16:27	1
Bromomethane (Methyl Bromide)	<0.50		0.50	ug/L			04/05/25 16:27	1
Carbon disulfide	<0.50		0.50	ug/L			04/05/25 16:27	1
Carbon tetrachloride	<0.50		0.50	ug/L			04/05/25 16:27	1
Chlorobenzene	<0.50		0.50	ug/L			04/05/25 16:27	1
Chlorodibromomethane	<0.50		0.50	ug/L			04/05/25 16:27	1
Chloroethane	<0.50		0.50	ug/L			04/05/25 16:27	1
Chloroform (Trichloromethane)	<0.50		0.50	ug/L			04/05/25 16:27	1
Dichloromethane	<0.50		0.50	ug/L			04/05/25 16:27	1
cis-1,2-Dichloroethylene	<0.50		0.50	ug/L			04/05/25 16:27	1
cis-1,3-Dichloropropene	<0.50		0.50	ug/L			04/05/25 16:27	1
Dibromomethane	<0.50		0.50	ug/L			04/05/25 16:27	1
Dichlorodifluoromethane	<0.50		0.50	ug/L			04/05/25 16:27	1
Ethylbenzene	<0.50		0.50	ug/L			04/05/25 16:27	1
Hexachlorobutadiene	<0.50		0.50	ug/L			04/05/25 16:27	1
Isopropylbenzene	<0.50		0.50	ug/L			04/05/25 16:27	1
m,p-Xylenes	<0.50		0.50	ug/L			04/05/25 16:27	1
m-Dichlorobenzene (1,3-DCB)	<0.50		0.50	ug/L			04/05/25 16:27	1
Methyl-tert-butyl Ether (MTBE)	<0.50		0.50	ug/L			04/05/25 16:27	1
Naphthalene	<0.50		0.50	ug/L			04/05/25 16:27	1
n-Butylbenzene	<0.50		0.50	ug/L			04/05/25 16:27	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-143933-1
SDG: Quarterly

Client Sample ID: TB: Ka'amilo Wells

Lab Sample ID: 380-143933-4

Date Collected: 04/03/25 10:17

Matrix: Water

Date Received: 04/04/25 10:36

Method: EPA-DW 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	<0.50		0.50	ug/L			04/05/25 16:27	1
o-Dichlorobenzene (1,2-DCB)	<0.50		0.50	ug/L			04/05/25 16:27	1
o-Chlorotoluene	<0.50		0.50	ug/L			04/05/25 16:27	1
o-Xylene	<0.50		0.50	ug/L			04/05/25 16:27	1
p-Chlorotoluene	<0.50		0.50	ug/L			04/05/25 16:27	1
p-Dichlorobenzene (1,4-DCB)	<0.50		0.50	ug/L			04/05/25 16:27	1
p-Isopropyltoluene	<0.50		0.50	ug/L			04/05/25 16:27	1
sec-Butylbenzene	<0.50		0.50	ug/L			04/05/25 16:27	1
Styrene	<0.50		0.50	ug/L			04/05/25 16:27	1
Tert-amyl methyl ether	<3.0		3.0	ug/L			04/05/25 16:27	1
Tert-butyl ethyl ether	<3.0		3.0	ug/L			04/05/25 16:27	1
tert-Butylbenzene	<0.50		0.50	ug/L			04/05/25 16:27	1
Tetrachloroethene (PCE)	<0.50		0.50	ug/L			04/05/25 16:27	1
Toluene	<0.50		0.50	ug/L			04/05/25 16:27	1
1,3-Dichloropropene, Total	<0.50		0.50	ug/L			04/05/25 16:27	1
Xylenes, Total	<0.50		0.50	ug/L			04/05/25 16:27	1
trans-1,2-Dichloroethylene	<0.50		0.50	ug/L			04/05/25 16:27	1
trans-1,3-Dichloropropene	<0.50		0.50	ug/L			04/05/25 16:27	1
Trichloroethylene (TCE)	<0.50		0.50	ug/L			04/05/25 16:27	1
Trichlorofluoromethane (Freon 11)	<0.50		0.50	ug/L			04/05/25 16:27	1
Vinyl Chloride (VC)	<0.30		0.30	ug/L			04/05/25 16:27	1
Trichlorotrifluoroethane	<0.50		0.50	ug/L			04/05/25 16:27	1
Bromoethane	<0.50		0.50	ug/L			04/05/25 16:27	1
Chloromethane (methyl chloride)	<0.50		0.50	ug/L			04/05/25 16:27	1
Diisopropyl ether	<3.0		3.0	ug/L			04/05/25 16:27	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	15	T J	ug/L		9.02	N/A		04/05/25 16:27	1
Unknown	0.61	T J	ug/L		10.38	N/A		04/05/25 16:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		70 - 130		04/05/25 16:27	1
4-Bromofluorobenzene (Surr)	99		70 - 130		04/05/25 16:27	1
Toluene-d8 (Surr)	103		70 - 130		04/05/25 16:27	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			04/15/25 17:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		38 - 134		04/15/25 17:42	1

Method: EPA-DW2 504.1 - EDB, DBCP and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	<0.020		0.020	ug/L		04/09/25 11:50	04/09/25 16:37	1
1,2-Dibromo-3-Chloropropane	<0.010		0.010	ug/L		04/09/25 11:50	04/09/25 16:37	1
1,2-Dibromoethane	<0.010		0.010	ug/L		04/09/25 11:50	04/09/25 16:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dibromopropane (Surr)	109		60 - 140	04/09/25 11:50	04/09/25 16:37	1

Eurofins Eaton Analytical Pomona

Action Limit Summary

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

Job ID: 380-143933-1
SDG: Quarterly

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

Lab Sample ID: 380-143933-1

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	HI Org Limit	EPAMCL Limit	EPAMCL S Limit	Method	Prep Type
Trihalomethanes, Total	<0.50		ug/L		80		524.2	Total/NA
1,1,1-Trichloroethane	<0.50		ug/L	200.0	200		524.2	Total/NA
1,1,2-Trichloroethane	<0.50		ug/L	5.000	5		524.2	Total/NA
1,1-Dichloroethylene	<0.50		ug/L	7.000	7		524.2	Total/NA
1,2,3-Trichloropropane	<0.50		ug/L	0.6000			524.2	Total/NA
1,2,4-Trichlorobenzene	<0.50		ug/L	70.00	70		524.2	Total/NA
1,2-Dichloroethane	<0.50		ug/L	5.000	5		524.2	Total/NA
1,2-Dichloropropane	<0.50		ug/L	5.000	5		524.2	Total/NA
Benzene	<0.50		ug/L	5.000	5		524.2	Total/NA
Carbon tetrachloride	<0.50		ug/L	5.000	5		524.2	Total/NA
Chlorobenzene	<0.50		ug/L	100.0	100		524.2	Total/NA
cis-1,2-Dichloroethylene	<0.50		ug/L	70.00	70		524.2	Total/NA
Dichloromethane	<0.50		ug/L	5.000	5		524.2	Total/NA
Ethylbenzene	<0.50		ug/L	700.0	700		524.2	Total/NA
o-Dichlorobenzene (1,2-DCB)	<0.50		ug/L	600.0	600		524.2	Total/NA
p-Dichlorobenzene (1,4-DCB)	<0.50		ug/L	75.000	75		524.2	Total/NA
Styrene	<0.50		ug/L	100.0	100		524.2	Total/NA
Tetrachloroethene (PCE)	<0.50		ug/L	5.000	5		524.2	Total/NA
Toluene	<0.50		ug/L	1000	1000		524.2	Total/NA
trans-1,2-Dichloroethylene	<0.50		ug/L	100.0	100		524.2	Total/NA
Trichloroethylene (TCE)	<0.50		ug/L	5.000	5		524.2	Total/NA
Vinyl Chloride (VC)	<0.30		ug/L	2.000	2		524.2	Total/NA
Xylenes, Total	<0.50		ug/L	10000	10000		524.2	Total/NA
Alachlor	<0.049		ug/L		2		525.2	Total/NA
Atrazine	<0.049		ug/L		3		525.2	Total/NA
Benzo[a]pyrene	<0.020		ug/L		0.2		525.2	Total/NA
Bis(2-ethylhexyl) phthalate	<0.59		ug/L		6		525.2	Total/NA
Di(2-ethylhexyl)adipate	<0.59		ug/L		400		525.2	Total/NA
Endrin	<0.0098		ug/L		2		525.2	Total/NA
gamma-BHC (Lindane)	<0.0098		ug/L		0.2		525.2	Total/NA
Heptachlor	<0.0098		ug/L		0.4		525.2	Total/NA
Heptachlor epoxide (isomer B)	<0.0098		ug/L		0.2		525.2	Total/NA
Hexachlorobenzene	<0.049		ug/L		1		525.2	Total/NA
Hexachlorocyclopentadiene	<0.049		ug/L		50		525.2	Total/NA
Methoxychlor	<0.049		ug/L		40		525.2	Total/NA
Simazine	<0.049		ug/L		4		525.2	Total/NA
Benzo[a]pyrene	<0.19		ug/L		0.2		625.1 SIM	Total/NA
Pentachlorophenol	<0.96		ug/L		1		625.1 SIM	Total/NA
1,2,3-Trichloropropane	<0.020		ug/L	0.6000			504.1	Total/NA
1,2-Dibromo-3-Chloropropane	<0.010		ug/L		0.2		504.1	Total/NA
1,2-Dibromoethane	<0.010		ug/L		0.05		504.1	Total/NA
Toxaphene	<0.50		ug/L		3		505	Total/NA
Chlordane (n.o.s.)	<0.10		ug/L		2		505	Total/NA
Polychlorinated biphenyls, Total	<0.10		ug/L		0.5		505	Total/NA
Chloride	120		mg/L			250	300.0	Total/NA
Nitrate as N	0.90		mg/L		10		300.0	Total/NA

Eurofins Eaton Analytical Pomona

Action Limit Summary

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

Job ID: 380-143933-1
SDG: Quarterly

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

Lab Sample ID: 380-143933-1

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	HI Org Limit	EPAMCL Limit	EPAMCL S Limit	Method	Prep Type
Nitrite as N	<0.25		mg/L		1		300.0	Total/NA
Sulfate	17		mg/L			250	300.0	Total/NA
Mercury	<0.20		ug/L		2		200.8	Total/NA
Antimony	<1.0		ug/L		6		200.8	Total/NA
Arsenic	<1.0		ug/L		10		200.8	Total/NA
Beryllium	<0.30		ug/L		4		200.8	Total/NA
Cadmium	<0.50		ug/L		5		200.8	Total/NA
Chromium	3.4		ug/L		100		200.8	Total/NA
Copper	10		ug/L			1000	200.8	Total/NA
Lead	<0.50		ug/L		15.000		200.8	Total/NA
Selenium	<2.0		ug/L		50		200.8	Total/NA
Silver	<0.50		ug/L			100	200.8	Total/NA
Thallium	<0.30		ug/L		2		200.8	Total/NA
Zinc	14		ug/L			5000	200.8	Total/NA
Total Dissolved Solids	340		mg/L			500	SM 2540C	Total/NA
Fluoride	0.050		mg/L		4	2	SM 4500 F C	Total/NA
pH	7.8	HF	SU			6.5	SM 4500 H+ B	Total/NA

Client Sample ID: Ka'amilo Wells

Lab Sample ID: 380-143933-2

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	HI Org Limit	EPAMCL Limit	EPAMCL S Limit	Method	Prep Type
Trihalomethanes, Total	<0.50		ug/L		80		524.2	Total/NA
1,1,1-Trichloroethane	<0.50		ug/L	200.0	200		524.2	Total/NA
1,1,2-Trichloroethane	<0.50		ug/L	5.000	5		524.2	Total/NA
1,1-Dichloroethylene	<0.50		ug/L	7.000	7		524.2	Total/NA
1,2,3-Trichloropropane	<0.50		ug/L	0.6000			524.2	Total/NA
1,2,4-Trichlorobenzene	<0.50		ug/L	70.00	70		524.2	Total/NA
1,2-Dichloroethane	<0.50		ug/L	5.000	5		524.2	Total/NA
1,2-Dichloropropane	<0.50		ug/L	5.000	5		524.2	Total/NA
Benzene	<0.50		ug/L	5.000	5		524.2	Total/NA
Carbon tetrachloride	<0.50		ug/L	5.000	5		524.2	Total/NA
Chlorobenzene	<0.50		ug/L	100.0	100		524.2	Total/NA
cis-1,2-Dichloroethylene	<0.50		ug/L	70.00	70		524.2	Total/NA
Dichloromethane	<0.50		ug/L	5.000	5		524.2	Total/NA
Ethylbenzene	<0.50		ug/L	700.0	700		524.2	Total/NA
o-Dichlorobenzene (1,2-DCB)	<0.50		ug/L	600.0	600		524.2	Total/NA
p-Dichlorobenzene (1,4-DCB)	<0.50		ug/L	75.000	75		524.2	Total/NA
Styrene	<0.50		ug/L	100.0	100		524.2	Total/NA
Tetrachloroethene (PCE)	<0.50		ug/L	5.000	5		524.2	Total/NA
Toluene	<0.50		ug/L	1000	1000		524.2	Total/NA
trans-1,2-Dichloroethylene	<0.50		ug/L	100.0	100		524.2	Total/NA
Trichloroethylene (TCE)	<0.50		ug/L	5.000	5		524.2	Total/NA

Eurofins Eaton Analytical Pomona

Action Limit Summary

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

Job ID: 380-143933-1
SDG: Quarterly

Client Sample ID: Ka'amilo Wells (Continued)

Lab Sample ID: 380-143933-2

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	HI Org	EPAMCL	EPAMCL S	Method	Prep Type
				Limit	Limit	Limit		
Vinyl Chloride (VC)	<0.30		ug/L	2.000	2		524.2	Total/NA
Xylenes, Total	<0.50		ug/L	10000	10000		524.2	Total/NA
Alachlor	<0.049		ug/L		2		525.2	Total/NA
Atrazine	<0.049		ug/L		3		525.2	Total/NA
Benzo[a]pyrene	<0.019		ug/L		0.2		525.2	Total/NA
Bis(2-ethylhexyl) phthalate	<0.58		ug/L		6		525.2	Total/NA
Di(2-ethylhexyl)adipate	<0.58		ug/L		400		525.2	Total/NA
Endrin	<0.0097		ug/L		2		525.2	Total/NA
gamma-BHC (Lindane)	<0.0097		ug/L		0.2		525.2	Total/NA
Heptachlor	<0.0097		ug/L		0.4		525.2	Total/NA
Heptachlor epoxide (isomer B)	<0.0097		ug/L		0.2		525.2	Total/NA
Hexachlorobenzene	<0.049		ug/L		1		525.2	Total/NA
Hexachlorocyclopentadiene	<0.049		ug/L		50		525.2	Total/NA
Methoxychlor	<0.049		ug/L		40		525.2	Total/NA
Simazine	<0.049		ug/L		4		525.2	Total/NA
Benzo[a]pyrene	<0.19		ug/L		0.2		625.1 SIM	Total/NA
Pentachlorophenol	<0.95		ug/L		1		625.1 SIM	Total/NA
1,2,3-Trichloropropane	<0.020		ug/L	0.6000			504.1	Total/NA
1,2-Dibromo-3-Chloropropane	<0.0099		ug/L		0.2		504.1	Total/NA
1,2-Dibromoethane	<0.0099		ug/L		0.05		504.1	Total/NA
Toxaphene	<0.50		ug/L		3		505	Total/NA
Chlordane (n.o.s.)	0.14		ug/L		2		505	Total/NA
Polychlorinated biphenyls, Total	<0.10		ug/L		0.5		505	Total/NA
Chloride	150		mg/L			250	300.0	Total/NA
Nitrate as N	1.4		mg/L		10		300.0	Total/NA
Nitrite as N	<0.25		mg/L		1		300.0	Total/NA
Sulfate	26		mg/L			250	300.0	Total/NA
Mercury	<0.20		ug/L		2		200.8	Total/NA
Antimony	<1.0		ug/L		6		200.8	Total/NA
Arsenic	<1.0		ug/L		10		200.8	Total/NA
Beryllium	<0.30		ug/L		4		200.8	Total/NA
Cadmium	<0.50		ug/L		5		200.8	Total/NA
Chromium	2.6		ug/L		100		200.8	Total/NA
Copper	67		ug/L			1000	200.8	Total/NA
Lead	<0.50		ug/L		15.000		200.8	Total/NA
Selenium	2.7		ug/L		50		200.8	Total/NA
Silver	<0.50		ug/L			100	200.8	Total/NA
Thallium	<0.30		ug/L		2		200.8	Total/NA
Zinc	17		ug/L			5000	200.8	Total/NA
Total Dissolved Solids	410		mg/L			500	SM 2540C	Total/NA
Fluoride	0.051		mg/L		4	2	SM 4500 F C	Total/NA
pH	7.6	HF	SU			6.5	SM 4500 H+ B	Total/NA

Action Limit Summary

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

Job ID: 380-143933-1
SDG: Quarterly

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

Lab Sample ID: 380-143933-3

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	HI Org Limit	EPAMCL Limit	RL	Method	Prep Type
1,2,3-Trichloropropane	<0.020		ug/L	0.6000		0.020	504.1	Total/NA
1,2-Dibromo-3-Chloropropane	<0.010		ug/L		0.2	0.010	504.1	Total/NA
1,2-Dibromoethane	<0.010		ug/L		0.05	0.010	504.1	Total/NA

Client Sample ID: TB: Ka'amilo Wells

Lab Sample ID: 380-143933-4

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	HI Org Limit	EPAMCL Limit	RL	Method	Prep Type
Trihalomethanes, Total	<0.50		ug/L		80	0.50	524.2	Total/NA
1,1,1-Trichloroethane	<0.50		ug/L	200.0	200	0.50	524.2	Total/NA
1,1,2-Trichloroethane	<0.50		ug/L	5.000	5	0.50	524.2	Total/NA
1,1-Dichloroethylene	<0.50		ug/L	7.000	7	0.50	524.2	Total/NA
1,2,3-Trichloropropane	<0.50		ug/L	0.6000		0.50	524.2	Total/NA
1,2,4-Trichlorobenzene	<0.50		ug/L	70.00	70	0.50	524.2	Total/NA
1,2-Dichloroethane	<0.50		ug/L	5.000	5	0.50	524.2	Total/NA
1,2-Dichloropropane	<0.50		ug/L	5.000	5	0.50	524.2	Total/NA
Benzene	<0.50		ug/L	5.000	5	0.50	524.2	Total/NA
Carbon tetrachloride	<0.50		ug/L	5.000	5	0.50	524.2	Total/NA
Chlorobenzene	<0.50		ug/L	100.0	100	0.50	524.2	Total/NA
Dichloromethane	<0.50		ug/L	5.000	5	0.50	524.2	Total/NA
cis-1,2-Dichloroethylene	<0.50		ug/L	70.00	70	0.50	524.2	Total/NA
Ethylbenzene	<0.50		ug/L	700.0	700	0.50	524.2	Total/NA
o-Dichlorobenzene (1,2-DCB)	<0.50		ug/L	600.0	600	0.50	524.2	Total/NA
p-Dichlorobenzene (1,4-DCB)	<0.50		ug/L	75.000	75	0.50	524.2	Total/NA
Styrene	<0.50		ug/L	100.0	100	0.50	524.2	Total/NA
Tetrachloroethene (PCE)	<0.50		ug/L	5.000	5	0.50	524.2	Total/NA
Toluene	<0.50		ug/L	1000	1000	0.50	524.2	Total/NA
Xylenes, Total	<0.50		ug/L	10000	10000	0.50	524.2	Total/NA
trans-1,2-Dichloroethylene	<0.50		ug/L	100.0	100	0.50	524.2	Total/NA
Trichloroethylene (TCE)	<0.50		ug/L	5.000	5	0.50	524.2	Total/NA
Vinyl Chloride (VC)	<0.30		ug/L	2.000	2	0.30	524.2	Total/NA
1,2,3-Trichloropropane	<0.020		ug/L	0.6000		0.020	504.1	Total/NA
1,2-Dibromo-3-Chloropropane	<0.010		ug/L		0.2	0.010	504.1	Total/NA
1,2-Dibromoethane	<0.010		ug/L		0.05	0.010	504.1	Total/NA

Surrogate Summary

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

Job ID: 380-143933-1
SDG: Quarterly

Method: 524.2 - Volatile Organic Compounds (GC/MS SIM)

Matrix: Drinking Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)						
		TOL (70-130)	BFB (70-130)	DCA (70-130)				
380-143933-1	AIEA WELLS PUMPS 1&2 (260) (33	101	103	102				
Surrogate Legend								
TOL = Toluene-d8 (Surr)								
BFB = 4-Bromofluorobenzene (Surr)								
DCA = 1,2-Dichloroethane-d4 (Surr)								

Method: 524.2 - Volatile Organic Compounds (GC/MS SIM)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)						
		TOL (70-130)	BFB (70-130)	DCA (70-130)				
380-143933-2	Ka'amilo Wells	98	108	100				
380-143933-3	TB: AIEA WELLS PUMPS 1&2 (260) (331-203-TP400)	99	101	99				
380-143933-4	TB: Ka'amilo Wells	98	102	99				
LCS 380-145654/8	Lab Control Sample	100	98	98				
LCSD 380-145654/9	Lab Control Sample Dup	100	99	100				
MB 380-145654/11	Method Blank	98	102	100				
Surrogate Legend								
TOL = Toluene-d8 (Surr)								
BFB = 4-Bromofluorobenzene (Surr)								
DCA = 1,2-Dichloroethane-d4 (Surr)								

Method: 524.2 - Volatile Organic Compounds (GC/MS SIM)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)						
		TOL (50-150)	BFB (50-150)	DCA (50-150)				
MRL 380-145654/10	Lab Control Sample	98	103	100				
Surrogate Legend								
TOL = Toluene-d8 (Surr)								
BFB = 4-Bromofluorobenzene (Surr)								
DCA = 1,2-Dichloroethane-d4 (Surr)								

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Matrix: Drinking Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)						
		DCA (70-130)	BFB (70-130)	TOL (70-130)				
380-143933-1	AIEA WELLS PUMPS 1&2 (260) (33	98	103	99				
Surrogate Legend								
DCA = 1,2-Dichloroethane-d4 (Surr)								
BFB = 4-Bromofluorobenzene (Surr)								
TOL = Toluene-d8 (Surr)								

Surrogate Summary

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

Job ID: 380-143933-1
SDG: Quarterly

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		DCA (70-130)	BFB (70-130)	TOL (70-130)
380-143933-2	Ka'amilo Wells	97	98	101
380-143933-2	Ka'amilo Wells	100	102	99
380-143933-4	TB: Ka'amilo Wells	106	99	103
LCS 380-145641/5	Lab Control Sample	105	100	98
LCSD 380-145641/6	Lab Control Sample Dup	99	107	101
MB 380-145641/8	Method Blank	98	105	100
MRL 380-145641/3	Lab Control Sample	105	104	98
MRL 380-145641/4	Lab Control Sample	101	103	96
Surrogate Legend				
DCA = 1,2-Dichloroethane-d4 (Surr)				
BFB = 4-Bromofluorobenzene (Surr)				
TOL = Toluene-d8 (Surr)				

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)
380-143933-1	AIEA WELLS PUMPS 1&2 (260) (33	98	94	103
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)
380-143838-R-1-A MSD	Matrix Spike Duplicate	98	94	107
380-143838-S-1-A MS	Matrix Spike	98	93	107
380-143933-2	Ka'amilo Wells	97	91	104
LCS 380-145789/23-A	Lab Control Sample	98	96	106
MB 380-145789/21-A	Method Blank	98	87	105
MRL 380-145789/22-A	Lab Control Sample	97	88	103
Surrogate Legend				
2NMX = 2-Nitro-m-xylene				
PRY = Perylene-d12				
TPP = Triphenylphosphate				

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

Matrix: Drinking Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (33-139)	FBP (33-126)	2FP (12-120)	NBZ (36-120)	PHL6 (10-120)	TPHd14 (47-131)
380-143933-1	AIEA WELLS PUMPS 1&2 (260) (33	88	87	40	90	17	95

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Surrogate Summary

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

Job ID: 380-143933-1
SDG: Quarterly

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)
380-143933-2	Ka'amilo Wells	89	92	46	85	14	92
MB 570-555182/1-A	Method Blank	79	79	42	74	21	85

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

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)
380-143933-1	AIEA WELLS PUMPS 1&2 (260) (33	106	96	45	96	27	102

Surrogate Legend

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

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (28-127)	FBP (31-120)	2FP (17-120)	NBZ (27-120)	PHL6 (10-120)	TPHd14 (45-120)
380-143933-2	Ka'amilo Wells	112	99	50	101	29	103
LCS 570-555182/2-A	Lab Control Sample	79	84	53	88	34	92
LCSD 570-555182/3-A	Lab Control Sample Dup	87	92	60	94	39	98
MB 570-555182/1-A	Method Blank	100	88	46	88	27	94

Surrogate Legend

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

Surrogate Summary

Client: City & County of Honolulu

Project/Site: RED-HILL

TPHd14 = p-Terphenyl-d14 (Surr)

Job ID: 380-143933-1

SDG: Quarterly

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)
380-143933-1	AIEA WELLS PUMPS 1&2 (260) (331-203-TP400)	87

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

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)
380-143933-2	Ka'amilo Wells	88
380-143933-3	TB: AIEA WELLS PUMPS 1&2 (260) (331-203-TP400)	85
380-143933-4	TB: Ka'amilo Wells	86
380-144829-C-3 MS	Matrix Spike	91
380-144829-C-3 MSD	Matrix Spike Duplicate	93
LCS 570-558265/4	Lab Control Sample	90
LCSD 570-558265/5	Lab Control Sample Dup	90
MB 570-558265/6	Method Blank	87
MRL 570-558265/3	Lab Control Sample	87

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

Method: 504.1 - EDB, DBCP and 1,2,3-TCP (GC)

Matrix: Drinking Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DBPP1 (60-140)
380-143933-1	AIEA WELLS PUMPS 1&2 (260) (331-203-TP400)	108

Surrogate Legend

DBPP = 1,2-Dibromopropane (Surr)

Method: 504.1 - EDB, DBCP and 1,2,3-TCP (GC)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DBPP1 (60-140)
380-143933-2	Ka'amilo Wells	111
380-143933-3	TB: AIEA WELLS PUMPS 1&2 (260) (331-203-TP400)	107
380-143933-4	TB: Ka'amilo Wells	109
380-144238-DR-1-A MS	Matrix Spike	99
380-144238-DS-1-A DU	Duplicate	105
LCS 380-146213/29-A	Lab Control Sample	105
MBL 380-146213/4-A	Method Blank	98
MRL 380-146213/2-A	Lab Control Sample	105
MRL 380-146213/3-A	Lab Control Sample	105

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Surrogate Summary

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

Job ID: 380-143933-1
SDG: Quarterly

Surrogate Legend

DBPP = 1,2-Dibromopropane (Surr)

Method: 505 - Organochlorine Pesticides/PCBs (GC)

Matrix: Drinking Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX1 (70-130)
380-143933-1	AIEA WELLS PUMPS 1&2 (260) (33	96

Surrogate Legend

TCX = Tetrachloro-m-xylene

Method: 505 - Organochlorine Pesticides/PCBs (GC)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX1 (70-130)
380-143933-2	Ka'amilo Wells	95
380-143950-BO-1-A MS	Matrix Spike	90
380-143950-BP-1-A MS	Matrix Spike	98
380-143957-CP-1-A MS	Matrix Spike	93
380-143957-CQ-1-A MS	Matrix Spike	99
LCS 380-146042/16-A	Lab Control Sample	97
LCS 380-146042/24-A	Lab Control Sample	103
LCS 380-146042/57-A	Lab Control Sample	100
LCS 380-146042/59-A	Lab Control Sample	101
LCS 380-146042/60-A	Lab Control Sample	94
LCS 380-146042/8-A	Lab Control Sample	96
LCSD 380-146042/58-A	Lab Control Sample Dup	94
MB 380-146042/32-A	Method Blank	100
MRL 380-146042/30-A	Lab Control Sample	102
MRL 380-146042/31-A	Lab Control Sample	100

Surrogate Legend

TCX = Tetrachloro-m-xylene

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)
380-143933-1	AIEA WELLS PUMPS 1&2 (260) (33	95

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)
380-143376-B-3-B MS	Matrix Spike	104
380-143376-B-3-C MSD	Matrix Spike Duplicate	94
380-143933-2	Ka'amilo Wells	93

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Surrogate Summary

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

Job ID: 380-143933-1
SDG: Quarterly

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	OTCSN1 (60-130)					
LCS 570-554296/2-A	Lab Control Sample	103					
LCSD 570-554296/3-A	Lab Control Sample Dup	106					
MB 570-554296/1-A	Method Blank	96					
MRL 570-554296/4-A	Lab Control Sample	106					
Surrogate Legend							
OTCSN = n-Octacosane (Surr)							

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Matrix: Drinking Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	HF2PP1 (54-120)					
380-143933-1	AIEA WELLS PUMPS 1&2 (260) (3)	87					
Surrogate Legend							
HF2PP = Hexafluoro-2-propanol (Surr)							

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	HF2PP1 (54-120)					
380-143415-AC-1 MS	Matrix Spike	86					
380-143415-AC-1 MSD	Matrix Spike Duplicate	88					
380-143933-2	Ka'amilo Wells	87					
LCS 570-557182/4	Lab Control Sample	95					
LCSD 570-557182/5	Lab Control Sample Dup	94					
MB 570-557182/3	Method Blank	91					
MRL 570-557182/6	Lab Control Sample	116					
Surrogate Legend							
HF2PP = Hexafluoro-2-propanol (Surr)							

QC Sample Results

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

Job ID: 380-143933-1
SDG: Quarterly

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 380-145641/8

Matrix: Water

Analysis Batch: 145641

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L			04/05/25 14:22	1
1,1,1-Trichloroethane	<0.50		0.50	ug/L			04/05/25 14:22	1
1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L			04/05/25 14:22	1
1,1,2-Trichloroethane	<0.50		0.50	ug/L			04/05/25 14:22	1
1,1-Dichloroethane	<0.50		0.50	ug/L			04/05/25 14:22	1
1,1-Dichloroethylene	<0.50		0.50	ug/L			04/05/25 14:22	1
1,1-Dichloropropene	<0.50		0.50	ug/L			04/05/25 14:22	1
1,2,3-Trichlorobenzene	<0.50		0.50	ug/L			04/05/25 14:22	1
1,2,3-Trichloropropane	<0.50		0.50	ug/L			04/05/25 14:22	1
1,2,4-Trichlorobenzene	<0.50		0.50	ug/L			04/05/25 14:22	1
1,2,4-Trimethylbenzene	<0.50		0.50	ug/L			04/05/25 14:22	1
1,2-Dichloroethane	<0.50		0.50	ug/L			04/05/25 14:22	1
1,2-Dichloropropane	<0.50		0.50	ug/L			04/05/25 14:22	1
1,3,5-Trimethylbenzene	<0.50		0.50	ug/L			04/05/25 14:22	1
1,3-Dichloropropane	<0.50		0.50	ug/L			04/05/25 14:22	1
2,2-Dichloropropane	<0.50		0.50	ug/L			04/05/25 14:22	1
2-Butanone (MEK)	<5.0		5.0	ug/L			04/05/25 14:22	1
4-Methyl-2-pentanone (MIBK)	<5.0		5.0	ug/L			04/05/25 14:22	1
Acetone	<500		500	ug/L			04/05/25 14:22	1
Benzene	<0.50		0.50	ug/L			04/05/25 14:22	1
Bromobenzene	<0.50		0.50	ug/L			04/05/25 14:22	1
Bromochloromethane	<0.50		0.50	ug/L			04/05/25 14:22	1
Bromodichloromethane	<0.50		0.50	ug/L			04/05/25 14:22	1
Bromoform	<0.50		0.50	ug/L			04/05/25 14:22	1
Bromomethane (Methyl Bromide)	<0.50		0.50	ug/L			04/05/25 14:22	1
Carbon disulfide	<0.50		0.50	ug/L			04/05/25 14:22	1
Carbon tetrachloride	<0.50		0.50	ug/L			04/05/25 14:22	1
Chlorobenzene	<0.50		0.50	ug/L			04/05/25 14:22	1
Chlorodibromomethane	<0.50		0.50	ug/L			04/05/25 14:22	1
Chloroethane	<0.50		0.50	ug/L			04/05/25 14:22	1
Chloroform (Trichloromethane)	<0.50		0.50	ug/L			04/05/25 14:22	1
cis-1,2-Dichloroethylene	<0.50		0.50	ug/L			04/05/25 14:22	1
cis-1,3-Dichloropropene	<0.50		0.50	ug/L			04/05/25 14:22	1
Dibromomethane	<0.50		0.50	ug/L			04/05/25 14:22	1
Dichlorodifluoromethane	<0.50		0.50	ug/L			04/05/25 14:22	1
Dichloromethane	<0.50		0.50	ug/L			04/05/25 14:22	1
Ethylbenzene	<0.50		0.50	ug/L			04/05/25 14:22	1
Hexachlorobutadiene	<0.50		0.50	ug/L			04/05/25 14:22	1
Isopropylbenzene	<0.50		0.50	ug/L			04/05/25 14:22	1
m,p-Xylenes	<0.50		0.50	ug/L			04/05/25 14:22	1
m-Dichlorobenzene (1,3-DCB)	<0.50		0.50	ug/L			04/05/25 14:22	1
Methyl-tert-butyl Ether (MTBE)	<0.50		0.50	ug/L			04/05/25 14:22	1
Naphthalene	<0.50		0.50	ug/L			04/05/25 14:22	1
n-Butylbenzene	<0.50		0.50	ug/L			04/05/25 14:22	1
N-Propylbenzene	<0.50		0.50	ug/L			04/05/25 14:22	1
o-Chlorotoluene	<0.50		0.50	ug/L			04/05/25 14:22	1
o-Dichlorobenzene (1,2-DCB)	<0.50		0.50	ug/L			04/05/25 14:22	1
o-Xylene	<0.50		0.50	ug/L			04/05/25 14:22	1

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QC Sample Results

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

Job ID: 380-143933-1
SDG: Quarterly

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 380-145641/8

Matrix: Water

Analysis Batch: 145641

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
p-Chlorotoluene	<0.50		0.50	ug/L			04/05/25 14:22	1
p-Dichlorobenzene (1,4-DCB)	<0.50		0.50	ug/L			04/05/25 14:22	1
p-Isopropyltoluene	<0.50		0.50	ug/L			04/05/25 14:22	1
sec-Butylbenzene	<0.50		0.50	ug/L			04/05/25 14:22	1
Styrene	<0.50		0.50	ug/L			04/05/25 14:22	1
Tert-amyl methyl ether	<3.0		3.0	ug/L			04/05/25 14:22	1
1,3-Dichloropropene, Total	<0.50		0.50	ug/L			04/05/25 14:22	1
Tert-butyl ethyl ether	<3.0		3.0	ug/L			04/05/25 14:22	1
tert-Butylbenzene	<0.50		0.50	ug/L			04/05/25 14:22	1
Tetrachloroethene (PCE)	<0.50		0.50	ug/L			04/05/25 14:22	1
Toluene	<0.50		0.50	ug/L			04/05/25 14:22	1
trans-1,2-Dichloroethylene	<0.50		0.50	ug/L			04/05/25 14:22	1
trans-1,3-Dichloropropene	<0.50		0.50	ug/L			04/05/25 14:22	1
Trichloroethylene (TCE)	<0.50		0.50	ug/L			04/05/25 14:22	1
Bromoethane	<0.50		0.50	ug/L			04/05/25 14:22	1
Trichlorofluoromethane (Freon 11)	<0.50		0.50	ug/L			04/05/25 14:22	1
Chloromethane (methyl chloride)	<0.50		0.50	ug/L			04/05/25 14:22	1
Trichlorotrifluoroethane	<0.50		0.50	ug/L			04/05/25 14:22	1
Diisopropyl ether	<3.0		3.0	ug/L			04/05/25 14:22	1
Vinyl Chloride (VC)	<0.30		0.30	ug/L			04/05/25 14:22	1
Xylenes, Total	<0.50		0.50	ug/L			04/05/25 14:22	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		04/05/25 14:22	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		70 - 130		04/05/25 14:22	1
4-Bromofluorobenzene (Surr)	105		70 - 130		04/05/25 14:22	1
Toluene-d8 (Surr)	100		70 - 130		04/05/25 14:22	1

Lab Sample ID: LCS 380-145641/5

Matrix: Water

Analysis Batch: 145641

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	5.00	4.71		ug/L		94	70 - 130
1,1,1-Trichloroethane	5.00	4.85		ug/L		97	70 - 130
1,1,1,2,2-Tetrachloroethane	5.00	5.59		ug/L		112	70 - 130
1,1,2-Trichloroethane	5.00	4.96		ug/L		99	70 - 130
1,1-Dichloroethane	5.00	4.92		ug/L		98	70 - 130
1,1-Dichloroethylene	5.00	5.03		ug/L		101	70 - 130
1,1-Dichloropropene	5.00	4.91		ug/L		98	70 - 130
1,2,3-Trichlorobenzene	5.00	6.34		ug/L		127	70 - 130
1,2,3-Trichloropropane	5.00	5.42		ug/L		108	70 - 130
1,2,4-Trichlorobenzene	5.00	6.14		ug/L		123	70 - 130
1,2,4-Trimethylbenzene	5.00	5.97		ug/L		119	70 - 130
1,2-Dichloroethane	5.00	5.41		ug/L		108	70 - 130
1,2-Dichloropropane	5.00	4.92		ug/L		98	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-143933-1
SDG: Quarterly

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 380-145641/5

Matrix: Water

Analysis Batch: 145641

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,3,5-Trimethylbenzene	5.00	5.90		ug/L		118	70 - 130
1,3-Dichloropropane	5.00	4.89		ug/L		98	70 - 130
2,2-Dichloropropane	5.00	4.91		ug/L		98	70 - 130
2-Butanone (MEK)	50.0	44.1		ug/L		88	70 - 130
4-Methyl-2-pentanone (MIBK)	50.0	48.2		ug/L		96	70 - 130
Acetone	50.0	43.3	J	ug/L		87	70 - 130
Benzene	5.00	5.68		ug/L		114	70 - 130
Bromobenzene	5.00	5.53		ug/L		111	70 - 130
Bromochloromethane	5.00	4.63		ug/L		93	70 - 130
Bromodichloromethane	5.00	4.18		ug/L		84	70 - 130
Bromoform	5.00	4.47		ug/L		89	70 - 130
Bromomethane (Methyl Bromide)	5.00	5.30		ug/L		106	70 - 130
Carbon disulfide	5.00	4.37		ug/L		87	70 - 130
Carbon tetrachloride	5.00	4.41		ug/L		88	70 - 130
Chlorobenzene	5.00	5.10		ug/L		102	70 - 130
Chlorodibromomethane	5.00	4.52		ug/L		90	70 - 130
cis-1,3-Dichloropropene	5.00	4.72		ug/L		94	70 - 130
Dichloromethane	5.00	4.76		ug/L		95	70 - 130
Ethylbenzene	5.00	5.25		ug/L		105	70 - 130
Hexachlorobutadiene	5.00	6.45		ug/L		129	70 - 130
Isopropylbenzene	5.00	5.77		ug/L		115	70 - 130
m,p-Xylenes	10.0	10.6		ug/L		106	70 - 130
m-Dichlorobenzene (1,3-DCB)	5.00	5.75		ug/L		115	70 - 130
Methyl-tert-butyl Ether (MTBE)	5.00	4.84		ug/L		97	70 - 130
Naphthalene	5.00	6.18		ug/L		124	70 - 130
n-Butylbenzene	5.00	5.88		ug/L		118	70 - 130
N-Propylbenzene	5.00	5.81		ug/L		116	70 - 130
o-Chlorotoluene	5.00	5.62		ug/L		112	70 - 130
o-Dichlorobenzene (1,2-DCB)	5.00	5.73		ug/L		115	70 - 130
o-Xylene	5.00	5.24		ug/L		105	70 - 130
p-Chlorotoluene	5.00	5.66		ug/L		113	70 - 130
p-Dichlorobenzene (1,4-DCB)	5.00	5.75		ug/L		115	70 - 130
p-Isopropyltoluene	5.00	6.02		ug/L		120	70 - 130
sec-Butylbenzene	5.00	6.00		ug/L		120	70 - 130
Styrene	5.00	5.15		ug/L		103	70 - 130
Tert-amyl methyl ether	5.00	5.08		ug/L		102	70 - 130
1,3-Dichloropropene, Total	10.0	9.27		ug/L		93	70 - 130
Tert-butyl ethyl ether	5.00	4.62		ug/L		92	70 - 130
tert-Butylbenzene	5.00	5.88		ug/L		118	70 - 130
Tetrachloroethene (PCE)	5.00	5.20		ug/L		104	70 - 130
Toluene	5.00	5.04		ug/L		101	70 - 130
trans-1,2-Dichloroethylene	5.00	5.00		ug/L		100	70 - 130
trans-1,3-Dichloropropene	5.00	4.55		ug/L		91	70 - 130
Trichloroethylene (TCE)	5.00	4.99		ug/L		100	70 - 130
Bromoethane	5.00	5.30		ug/L		106	70 - 130
Trichlorofluoromethane (Freon 11)	5.00	5.07		ug/L		101	70 - 130
Trichlorotrifluoroethane	5.00	4.98		ug/L		100	70 - 130
Diisopropyl ether	5.00	4.72		ug/L		94	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-143933-1
SDG: Quarterly

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 380-145641/5

Matrix: Water

Analysis Batch: 145641

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Vinyl Chloride (VC)	5.00	4.85		ug/L		97	70 - 130
Xylenes, Total	15.0	15.9		ug/L		106	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	105		70 - 130
4-Bromofluorobenzene (Surr)	100		70 - 130
Toluene-d8 (Surr)	98		70 - 130

Lab Sample ID: LCSD 380-145641/6

Matrix: Water

Analysis Batch: 145641

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
1,1,1,2-Tetrachloroethane	5.00	4.88		ug/L		98	70 - 130	3	20
1,1,1-Trichloroethane	5.00	4.75		ug/L		95	70 - 130	2	20
1,1,2,2-Tetrachloroethane	5.00	5.53		ug/L		111	70 - 130	1	20
1,1,2-Trichloroethane	5.00	4.84		ug/L		97	70 - 130	2	20
1,1-Dichloroethane	5.00	4.74		ug/L		95	70 - 130	4	20
1,1-Dichloroethylene	5.00	4.78		ug/L		96	70 - 130	5	20
1,1-Dichloropropene	5.00	4.81		ug/L		96	70 - 130	2	20
1,2,3-Trichlorobenzene	5.00	5.66		ug/L		113	70 - 130	11	20
1,2,3-Trichloropropane	5.00	5.20		ug/L		104	70 - 130	4	20
1,2,4-Trichlorobenzene	5.00	5.62		ug/L		112	70 - 130	9	20
1,2,4-Trimethylbenzene	5.00	5.58		ug/L		112	70 - 130	7	20
1,2-Dichloroethane	5.00	5.03		ug/L		101	70 - 130	7	20
1,2-Dichloropropane	5.00	4.81		ug/L		96	70 - 130	2	20
1,3,5-Trimethylbenzene	5.00	5.49		ug/L		110	70 - 130	7	20
1,3-Dichloropropane	5.00	4.78		ug/L		96	70 - 130	2	20
2,2-Dichloropropane	5.00	4.80		ug/L		96	70 - 130	2	20
2-Butanone (MEK)	50.0	43.9		ug/L		88	70 - 130	1	20
4-Methyl-2-pentanone (MIBK)	50.0	47.5		ug/L		95	70 - 130	1	20
Acetone	50.0	38.2	J	ug/L		76	70 - 130	13	20
Benzene	5.00	4.80		ug/L		96	70 - 130	17	20
Bromobenzene	5.00	5.37		ug/L		107	70 - 130	3	20
Bromochloromethane	5.00	4.66		ug/L		93	70 - 130	1	20
Bromodichloromethane	5.00	4.34		ug/L		87	70 - 130	4	20
Bromoform	5.00	5.99	*1	ug/L		120	70 - 130	29	20
Bromomethane (Methyl Bromide)	5.00	5.11		ug/L		102	70 - 130	4	20
Carbon disulfide	5.00	4.64		ug/L		93	70 - 130	6	20
Carbon tetrachloride	5.00	4.59		ug/L		92	70 - 130	4	20
Chlorobenzene	5.00	5.01		ug/L		100	70 - 130	2	20
Chlorodibromomethane	5.00	4.72		ug/L		94	70 - 130	4	20
cis-1,3-Dichloropropene	5.00	4.79		ug/L		96	70 - 130	1	20
Dichloromethane	5.00	4.63		ug/L		93	70 - 130	3	20
Ethylbenzene	5.00	4.95		ug/L		99	70 - 130	6	20
Hexachlorobutadiene	5.00	5.83		ug/L		117	70 - 130	10	20
Isopropylbenzene	5.00	5.40		ug/L		108	70 - 130	7	20
m,p-Xylenes	10.0	10.2		ug/L		102	70 - 130	4	20

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-143933-1
SDG: Quarterly

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 380-145641/6

Matrix: Water

Analysis Batch: 145641

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
m-Dichlorobenzene (1,3-DCB)	5.00	5.47		ug/L		109	70 - 130	5	20
Methyl-tert-butyl Ether (MTBE)	5.00	4.76		ug/L		95	70 - 130	2	20
Naphthalene	5.00	5.55		ug/L		111	70 - 130	11	20
n-Butylbenzene	5.00	5.27		ug/L		105	70 - 130	11	20
N-Propylbenzene	5.00	5.53		ug/L		111	70 - 130	5	20
o-Chlorotoluene	5.00	5.08		ug/L		102	70 - 130	10	20
o-Dichlorobenzene (1,2-DCB)	5.00	5.27		ug/L		105	70 - 130	8	20
o-Xylene	5.00	5.04		ug/L		101	70 - 130	4	20
p-Chlorotoluene	5.00	5.51		ug/L		110	70 - 130	3	20
p-Dichlorobenzene (1,4-DCB)	5.00	5.51		ug/L		110	70 - 130	4	20
p-Isopropyltoluene	5.00	5.65		ug/L		113	70 - 130	6	20
sec-Butylbenzene	5.00	5.64		ug/L		113	70 - 130	6	20
Styrene	5.00	4.96		ug/L		99	70 - 130	4	20
Tert-amyl methyl ether	5.00	4.91		ug/L		98	70 - 130	3	20
1,3-Dichloropropene, Total	10.0	9.56		ug/L		96	70 - 130	3	20
Tert-butyl ethyl ether	5.00	4.70		ug/L		94	70 - 130	2	20
tert-Butylbenzene	5.00	5.57		ug/L		111	70 - 130	5	20
Tetrachloroethene (PCE)	5.00	4.94		ug/L		99	70 - 130	5	20
Toluene	5.00	4.78		ug/L		96	70 - 130	5	20
trans-1,2-Dichloroethylene	5.00	4.93		ug/L		99	70 - 130	2	20
trans-1,3-Dichloropropene	5.00	4.77		ug/L		95	70 - 130	5	20
Trichloroethylene (TCE)	5.00	4.79		ug/L		96	70 - 130	4	20
Bromoethane	5.00	5.08		ug/L		102	70 - 130	4	20
Trichlorofluoromethane (Freon 11)	5.00	4.86		ug/L		97	70 - 130	4	20
Trichlorotrifluoroethane	5.00	4.74		ug/L		95	70 - 130	5	20
Diisopropyl ether	5.00	4.69		ug/L		94	70 - 130	1	20
Vinyl Chloride (VC)	5.00	4.53		ug/L		91	70 - 130	7	20
Xylenes, Total	15.0	15.2		ug/L		102	70 - 130	4	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		70 - 130
4-Bromofluorobenzene (Surr)	107		70 - 130
Toluene-d8 (Surr)	101		70 - 130

Lab Sample ID: MRL 380-145641/3

Matrix: Water

Analysis Batch: 145641

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
m,p-Xylenes	0.500	0.627		ug/L		125	50 - 150
Vinyl Chloride (VC)	0.250	0.287	J	ug/L		115	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	105		70 - 130
4-Bromofluorobenzene (Surr)	104		70 - 130
Toluene-d8 (Surr)	98		70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-143933-1
SDG: Quarterly

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MRL 380-145641/4

Matrix: Water

Analysis Batch: 145641

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	0.500	0.419	J	ug/L		84	50 - 150
1,1,1-Trichloroethane	0.500	0.483	J	ug/L		97	50 - 150
1,1,2,2-Tetrachloroethane	0.500	0.617		ug/L		123	50 - 150
1,1,2-Trichloroethane	0.500	0.528		ug/L		106	50 - 150
1,1-Dichloroethane	0.500	0.499	J	ug/L		100	50 - 150
1,1-Dichloroethylene	0.500	0.495	J	ug/L		99	50 - 150
1,1-Dichloropropene	0.500	0.517		ug/L		103	50 - 150
1,2,3-Trichlorobenzene	0.500	0.732		ug/L		146	50 - 150
1,2,3-Trichloropropane	0.500	0.599		ug/L		120	50 - 150
1,2,4-Trichlorobenzene	0.500	0.697		ug/L		139	50 - 150
1,2,4-Trimethylbenzene	0.500	0.620		ug/L		124	50 - 150
1,2-Dichloroethane	0.500	0.571		ug/L		114	50 - 150
1,2-Dichloropropane	0.500	0.538		ug/L		108	50 - 150
1,3,5-Trimethylbenzene	0.500	0.607		ug/L		121	50 - 150
1,3-Dichloropropane	0.500	0.516		ug/L		103	50 - 150
2,2-Dichloropropane	0.500	0.509		ug/L		102	50 - 150
2-Butanone (MEK)	5.00	4.23	J	ug/L		85	50 - 150
4-Methyl-2-pentanone (MIBK)	5.00	5.26		ug/L		105	50 - 150
Acetone	5.00	4.21	J	ug/L		84	50 - 150
Benzene	0.500	0.599		ug/L		120	50 - 150
Bromobenzene	0.500	0.592		ug/L		118	50 - 150
Bromochloromethane	0.500	0.497	J	ug/L		99	50 - 150
Bromodichloromethane	0.500	0.379	J	ug/L		76	50 - 150
Bromoform	0.500	0.554		ug/L		111	50 - 150
Bromomethane (Methyl Bromide)	0.500	0.670		ug/L		134	50 - 150
Carbon disulfide	0.500	0.460	J	ug/L		92	50 - 150
Carbon tetrachloride	0.500	0.455	J	ug/L		91	50 - 150
Chlorobenzene	0.500	0.542		ug/L		108	50 - 150
Chlorodibromomethane	0.500	0.395	J	ug/L		79	50 - 150
cis-1,3-Dichloropropene	0.500	0.412	J	ug/L		82	50 - 150
Dichloromethane	0.500	0.532		ug/L		106	50 - 150
Ethylbenzene	0.500	0.560		ug/L		112	50 - 150
Hexachlorobutadiene	0.500	0.693		ug/L		139	50 - 150
Isopropylbenzene	0.500	0.583		ug/L		117	50 - 150
m,p-Xylenes	1.00	1.11		ug/L		111	50 - 150
m-Dichlorobenzene (1,3-DCB)	0.500	0.633		ug/L		127	50 - 150
Methyl-tert-butyl Ether (MTBE)	0.500	0.501		ug/L		100	50 - 150
Naphthalene	0.500	0.694		ug/L		139	50 - 150
n-Butylbenzene	0.500	0.597		ug/L		119	50 - 150
N-Propylbenzene	0.500	0.593		ug/L		119	50 - 150
o-Chlorotoluene	0.500	0.593		ug/L		119	50 - 150
o-Dichlorobenzene (1,2-DCB)	0.500	0.612		ug/L		122	50 - 150
o-Xylene	0.500	0.544		ug/L		109	50 - 150
p-Chlorotoluene	0.500	0.609		ug/L		122	50 - 150
p-Dichlorobenzene (1,4-DCB)	0.500	0.588		ug/L		118	50 - 150
p-Isopropyltoluene	0.500	0.643		ug/L		129	50 - 150
sec-Butylbenzene	0.500	0.615		ug/L		123	50 - 150
Styrene	0.500	0.537		ug/L		107	50 - 150

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-143933-1
SDG: Quarterly

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MRL 380-145641/4

Matrix: Water

Analysis Batch: 145641

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Tert-amyl methyl ether	0.500	0.515	J	ug/L		103	50 - 150
1,3-Dichloropropene, Total	1.00	0.807		ug/L		81	50 - 150
Tert-butyl ethyl ether	0.500	0.491	J	ug/L		98	50 - 150
tert-Butylbenzene	0.500	0.617		ug/L		123	50 - 150
Tetrachloroethene (PCE)	0.500	0.520		ug/L		104	50 - 150
Toluene	0.500	0.516		ug/L		103	50 - 150
trans-1,2-Dichloroethylene	0.500	0.560		ug/L		112	50 - 150
trans-1,3-Dichloropropene	0.500	0.395	J	ug/L		79	50 - 150
Trichloroethylene (TCE)	0.500	0.506		ug/L		101	50 - 150
Bromoethane	0.500	0.555		ug/L		111	50 - 150
Trichlorofluoromethane (Freon 11)	0.500	0.508		ug/L		102	50 - 150
Trichlorotrifluoroethane	0.500	0.584		ug/L		117	50 - 150
Diisopropyl ether	0.500	0.492	J	ug/L		98	50 - 150
Vinyl Chloride (VC)	0.500	0.557		ug/L		111	50 - 150
Xylenes, Total	1.50	1.65		ug/L		110	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		70 - 130
4-Bromofluorobenzene (Surr)	103		70 - 130
Toluene-d8 (Surr)	96		70 - 130

Method: 524.2 - Volatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 380-145654/11

Matrix: Water

Analysis Batch: 145654

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Tertiary Butyl Alcohol (TBA)	<2.0		2.0	ug/L			04/05/25 23:09	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		70 - 130				04/05/25 23:09	1
4-Bromofluorobenzene (Surr)	102		70 - 130				04/05/25 23:09	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 130				04/05/25 23:09	1

Lab Sample ID: LCS 380-145654/8

Matrix: Water

Analysis Batch: 145654

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike		LCS	LCS	Unit	D	%Rec	%Rec	Limits		
	Added	Result	Qualifier								
Tertiary Butyl Alcohol (TBA)	5.00	4.91			ug/L		98	70 - 130			
Surrogate	LCS	LCS									
	%Recovery	Qualifier	Limits								
	Toluene-d8 (Surr)	100	70 - 130								
	4-Bromofluorobenzene (Surr)	98	70 - 130								
	1,2-Dichloroethane-d4 (Surr)	98	70 - 130								

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QC Sample Results

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

Job ID: 380-143933-1
SDG: Quarterly

Method: 524.2 - Volatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCSD 380-145654/9

Matrix: Water

Analysis Batch: 145654

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
Tertiary Butyl Alcohol (TBA)	5.00	4.88		ug/L		98	70 - 130	1	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
Toluene-d8 (Surr)	100		70 - 130						
4-Bromofluorobenzene (Surr)	99		70 - 130						
1,2-Dichloroethane-d4 (Surr)	100		70 - 130						

Lab Sample ID: MRL 380-145654/10

Matrix: Water

Analysis Batch: 145654

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte			Spike	MRL	MRL	Unit	D	%Rec	%Rec		
			Added	Result	Qualifier			Limits	Limits		
Tertiary Butyl Alcohol (TBA)			2.00	2.29		ug/L		115	50 - 150		
Surrogate	MRL		Limits								
	%Recovery	MRL		Qualifier							

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

Lab Sample ID: MB 380-145789/21-A

Matrix: Water

Analysis Batch: 145979

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 145789

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	<0.097		0.097	ug/L		04/07/25 08:00	04/08/25 14:13	1
2,4'-DDE	<0.097		0.097	ug/L		04/07/25 08:00	04/08/25 14:13	1
2,4'-DDT	<0.097		0.097	ug/L		04/07/25 08:00	04/08/25 14:13	1
2,4-Dinitrotoluene	<0.097		0.097	ug/L		04/07/25 08:00	04/08/25 14:13	1
2,6-Dinitrotoluene	<0.097		0.097	ug/L		04/07/25 08:00	04/08/25 14:13	1
4,4'-DDD	<0.097		0.097	ug/L		04/07/25 08:00	04/08/25 14:13	1
4,4'-DDE	<0.097		0.097	ug/L		04/07/25 08:00	04/08/25 14:13	1
4,4'-DDT	<0.097		0.097	ug/L		04/07/25 08:00	04/08/25 14:13	1
Acenaphthene	<0.097		0.097	ug/L		04/07/25 08:00	04/08/25 14:13	1
Acenaphthylene	<0.097		0.097	ug/L		04/07/25 08:00	04/08/25 14:13	1
Acetochlor	<0.097		0.097	ug/L		04/07/25 08:00	04/08/25 14:13	1
Alachlor	<0.049		0.049	ug/L		04/07/25 08:00	04/08/25 14:13	1
alpha-BHC	<0.097		0.097	ug/L		04/07/25 08:00	04/08/25 14:13	1
alpha-Chlordane	<0.049		0.049	ug/L		04/07/25 08:00	04/08/25 14:13	1
Anthracene	<0.019		0.019	ug/L		04/07/25 08:00	04/08/25 14:13	1
Atrazine	<0.049		0.049	ug/L		04/07/25 08:00	04/08/25 14:13	1
Benz(a)anthracene	<0.049		0.049	ug/L		04/07/25 08:00	04/08/25 14:13	1
Benzo[a]pyrene	<0.019		0.019	ug/L		04/07/25 08:00	04/08/25 14:13	1
Benzo[b]fluoranthene	<0.019		0.019	ug/L		04/07/25 08:00	04/08/25 14:13	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		04/07/25 08:00	04/08/25 14:13	1
Benzo[k]fluoranthene	<0.019		0.019	ug/L		04/07/25 08:00	04/08/25 14:13	1
beta-BHC	<0.097		0.097	ug/L		04/07/25 08:00	04/08/25 14:13	1

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QC Sample Results

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

Job ID: 380-143933-1
SDG: Quarterly

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

Lab Sample ID: MB 380-145789/21-A

Matrix: Water

Analysis Batch: 145979

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 145789

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	<0.58		0.58	ug/L		04/07/25 08:00	04/08/25 14:13	1
Aldrin	<0.0097		0.0097	ug/L		04/07/25 08:00	04/08/25 14:13	1
Bromacil	<0.097		0.097	ug/L		04/07/25 08:00	04/08/25 14:13	1
Butachlor	<0.049		0.049	ug/L		04/07/25 08:00	04/08/25 14:13	1
Butylbenzylphthalate	<0.49		0.49	ug/L		04/07/25 08:00	04/08/25 14:13	1
Chlorobenzilate	<0.097		0.097	ug/L		04/07/25 08:00	04/08/25 14:13	1
Chloroneb	<0.097		0.097	ug/L		04/07/25 08:00	04/08/25 14:13	1
Chlorothalonil (Draconil, Bravo)	<0.097		0.097	ug/L		04/07/25 08:00	04/08/25 14:13	1
Chlorpyrifos	<0.049		0.049	ug/L		04/07/25 08:00	04/08/25 14:13	1
Chrysene	<0.019		0.019	ug/L		04/07/25 08:00	04/08/25 14:13	1
delta-BHC	<0.097		0.097	ug/L		04/07/25 08:00	04/08/25 14:13	1
Di(2-ethylhexyl)adipate	<0.58		0.58	ug/L		04/07/25 08:00	04/08/25 14:13	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		04/07/25 08:00	04/08/25 14:13	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		04/07/25 08:00	04/08/25 14:13	1
Dieldrin	<0.0097		0.0097	ug/L		04/07/25 08:00	04/08/25 14:13	1
Diethylphthalate	<0.49		0.49	ug/L		04/07/25 08:00	04/08/25 14:13	1
Dimethylphthalate	<0.49		0.49	ug/L		04/07/25 08:00	04/08/25 14:13	1
Di-n-butyl phthalate	<0.97		0.97	ug/L		04/07/25 08:00	04/08/25 14:13	1
Di-n-octyl phthalate	<0.097		0.097	ug/L		04/07/25 08:00	04/08/25 14:13	1
Endosulfan I (Alpha)	<0.097		0.097	ug/L		04/07/25 08:00	04/08/25 14:13	1
Endosulfan II (Beta)	<0.097		0.097	ug/L		04/07/25 08:00	04/08/25 14:13	1
Endosulfan sulfate	<0.097		0.097	ug/L		04/07/25 08:00	04/08/25 14:13	1
Endrin	<0.0097		0.0097	ug/L		04/07/25 08:00	04/08/25 14:13	1
Endrin aldehyde	<0.097		0.097	ug/L		04/07/25 08:00	04/08/25 14:13	1
EPTC	<0.097		0.097	ug/L		04/07/25 08:00	04/08/25 14:13	1
Fluoranthene	<0.097		0.097	ug/L		04/07/25 08:00	04/08/25 14:13	1
Fluorene	<0.049		0.049	ug/L		04/07/25 08:00	04/08/25 14:13	1
gamma-BHC (Lindane)	<0.0097		0.0097	ug/L		04/07/25 08:00	04/08/25 14:13	1
gamma-Chlordane	<0.049		0.049	ug/L		04/07/25 08:00	04/08/25 14:13	1
Heptachlor	<0.0097		0.0097	ug/L		04/07/25 08:00	04/08/25 14:13	1
Heptachlor epoxide (isomer B)	<0.0097		0.0097	ug/L		04/07/25 08:00	04/08/25 14:13	1
Hexachlorobenzene	<0.049		0.049	ug/L		04/07/25 08:00	04/08/25 14:13	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		04/07/25 08:00	04/08/25 14:13	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		04/07/25 08:00	04/08/25 14:13	1
Isophorone	<0.097		0.097	ug/L		04/07/25 08:00	04/08/25 14:13	1
Malathion	<0.097		0.097	ug/L		04/07/25 08:00	04/08/25 14:13	1
Methoxychlor	<0.049		0.049	ug/L		04/07/25 08:00	04/08/25 14:13	1
Metolachlor	<0.049		0.049	ug/L		04/07/25 08:00	04/08/25 14:13	1
Molinate	<0.097		0.097	ug/L		04/07/25 08:00	04/08/25 14:13	1
Naphthalene	<0.097		0.097	ug/L		04/07/25 08:00	04/08/25 14:13	1
Parathion	<0.097		0.097	ug/L		04/07/25 08:00	04/08/25 14:13	1
Pendimethalin (Penoxaline)	<0.097		0.097	ug/L		04/07/25 08:00	04/08/25 14:13	1
Phenanthrene	<0.039		0.039	ug/L		04/07/25 08:00	04/08/25 14:13	1
Propachlor	<0.049		0.049	ug/L		04/07/25 08:00	04/08/25 14:13	1
Pyrene	<0.049		0.049	ug/L		04/07/25 08:00	04/08/25 14:13	1
Simazine	<0.049		0.049	ug/L		04/07/25 08:00	04/08/25 14:13	1
Terbacil	<0.097		0.097	ug/L		04/07/25 08:00	04/08/25 14:13	1
Terbuthylazine	<0.097		0.097	ug/L		04/07/25 08:00	04/08/25 14:13	1
Thiobencarb	<0.097		0.097	ug/L		04/07/25 08:00	04/08/25 14:13	1

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QC Sample Results

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

Job ID: 380-143933-1
SDG: Quarterly

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

Lab Sample ID: MB 380-145789/21-A

Matrix: Water

Analysis Batch: 145979

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 145789

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Permethrin (mixed isomers)	<0.19		0.19	ug/L		04/07/25 08:00	04/08/25 14:13	1
trans-Nonachlor	<0.049		0.049	ug/L		04/07/25 08:00	04/08/25 14:13	1
Trifluralin	<0.097		0.097	ug/L		04/07/25 08:00	04/08/25 14:13	1
1-Methylnaphthalene	<0.097		0.097	ug/L		04/07/25 08:00	04/08/25 14:13	1
2-Methylnaphthalene	<0.097		0.097	ug/L		04/07/25 08:00	04/08/25 14:13	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Ethyl 3-acetoxybutyrate	0.735	T J N	ug/L		3.25	27846-49-7	04/07/25 08:00	04/08/25 14:13	1
9-Octadecenamide, (Z)-	1.41	T J N	ug/L		8.07	301-02-0	04/07/25 08:00	04/08/25 14:13	1
13-Docosenamide, (Z)-	0.498	T J N	ug/L		10.67	112-84-5	04/07/25 08:00	04/08/25 14:13	1
Unknown	0.805	T J	ug/L		11.66	N/A	04/07/25 08:00	04/08/25 14:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	98		70 - 130	04/07/25 08:00	04/08/25 14:13	1
Perylene-d12	87		70 - 130	04/07/25 08:00	04/08/25 14:13	1
Triphenylphosphate	105		70 - 130	04/07/25 08:00	04/08/25 14:13	1

Lab Sample ID: LCS 380-145789/23-A

Matrix: Water

Analysis Batch: 145979

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 145789

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4'-DDD	1.95	2.12		ug/L		109	70 - 130
2,4'-DDE	1.95	2.12		ug/L		109	70 - 130
2,4'-DDT	1.95	2.01		ug/L		103	70 - 130
2,4-Dinitrotoluene	1.95	2.04		ug/L		105	70 - 130
2,6-Dinitrotoluene	1.95	1.99		ug/L		102	70 - 130
4,4'-DDD	1.95	2.06		ug/L		106	70 - 130
4,4'-DDE	1.95	2.11		ug/L		108	70 - 130
4,4'-DDT	1.95	1.97		ug/L		101	70 - 130
Acenaphthene	1.95	2.03		ug/L		104	70 - 130
Acenaphthylene	1.95	2.07		ug/L		106	70 - 130
Acetochlor	1.95	2.24		ug/L		115	70 - 130
Alachlor	1.95	2.28		ug/L		117	70 - 130
alpha-BHC	1.95	2.15		ug/L		110	70 - 130
alpha-Chlordane	1.95	2.18		ug/L		112	70 - 130
Anthracene	1.95	2.03		ug/L		104	70 - 130
Atrazine	1.95	2.35		ug/L		121	70 - 130
Benz(a)anthracene	1.95	2.01		ug/L		103	70 - 130
Benzo[a]pyrene	1.95	2.02		ug/L		104	70 - 130
Benzo[b]fluoranthene	1.95	2.25		ug/L		116	70 - 130
Benzo[g,h,i]perylene	1.95	2.06		ug/L		106	70 - 130
Benzo[k]fluoranthene	1.95	2.01		ug/L		103	70 - 130
beta-BHC	1.95	2.20		ug/L		113	70 - 130
Bis(2-ethylhexyl) phthalate	1.95	2.07		ug/L		106	70 - 130
Aldrin	1.95	1.77		ug/L		91	70 - 130
Bromacil	1.95	2.06		ug/L		106	70 - 130
Butachlor	1.95	2.27		ug/L		117	70 - 130

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QC Sample Results

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

Job ID: 380-143933-1
SDG: Quarterly

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

Lab Sample ID: LCS 380-145789/23-A

Matrix: Water

Analysis Batch: 145979

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 145789

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Butylbenzylphthalate	1.95	2.23		ug/L		115	70 - 130
Chlorobenzilate	1.95	2.19		ug/L		113	70 - 130
Chloroneb	1.95	2.06		ug/L		106	70 - 130
Chlorothalonil (Draconil, Bravo)	1.95	2.25		ug/L		115	70 - 130
Chlorpyrifos	1.95	2.23		ug/L		115	70 - 130
Chrysene	1.95	2.06		ug/L		106	70 - 130
delta-BHC	1.95	2.14		ug/L		110	70 - 130
Di(2-ethylhexyl)adipate	1.95	2.21		ug/L		113	70 - 130
Dibenz(a,h)anthracene	1.95	2.17		ug/L		111	70 - 130
Diclorvos (DDVP)	1.95	2.09		ug/L		107	70 - 130
Dieldrin	1.95	2.05		ug/L		105	70 - 130
Diethylphthalate	1.95	2.25		ug/L		116	70 - 130
Dimethylphthalate	1.95	2.20		ug/L		113	70 - 130
Di-n-butyl phthalate	3.90	4.23		ug/L		109	70 - 130
Di-n-octyl phthalate	1.95	2.01		ug/L		103	70 - 130
Endosulfan I (Alpha)	1.95	2.10		ug/L		108	70 - 130
Endosulfan II (Beta)	1.95	2.15		ug/L		110	70 - 130
Endosulfan sulfate	1.95	2.16		ug/L		111	70 - 130
Endrin	1.95	2.09		ug/L		107	70 - 130
Endrin aldehyde	1.95	2.06		ug/L		106	60 - 130
EPTC	1.95	2.10		ug/L		108	70 - 130
Fluoranthene	1.95	2.22		ug/L		114	70 - 130
Fluorene	1.95	2.13		ug/L		109	70 - 130
gamma-BHC (Lindane)	1.95	2.12		ug/L		109	70 - 130
gamma-Chlordane	1.95	2.12		ug/L		109	70 - 130
Heptachlor	1.95	2.10		ug/L		108	70 - 130
Heptachlor epoxide (isomer B)	1.95	2.10		ug/L		108	70 - 130
Hexachlorobenzene	1.95	2.01		ug/L		103	70 - 130
Hexachlorocyclopentadiene	1.95	1.95		ug/L		100	70 - 130
Indeno[1,2,3-cd]pyrene	1.95	2.05		ug/L		105	70 - 130
Isophorone	1.95	2.01		ug/L		103	70 - 130
Malathion	1.95	2.28		ug/L		117	70 - 130
Methoxychlor	1.95	2.07		ug/L		106	70 - 130
Metolachlor	1.95	2.33		ug/L		119	70 - 130
Molinate	1.95	2.17		ug/L		111	70 - 130
Naphthalene	1.95	1.85		ug/L		95	70 - 130
Parathion	1.95	2.16		ug/L		111	70 - 130
Pendimethalin (Penoxaline)	1.95	2.02		ug/L		104	70 - 130
Phenanthrene	1.95	1.96		ug/L		100	70 - 130
Propachlor	1.95	2.27		ug/L		116	70 - 130
Pyrene	1.95	2.25		ug/L		115	70 - 130
Simazine	1.95	2.37		ug/L		122	70 - 130
Terbacil	1.95	2.21		ug/L		113	70 - 130
Terbuthylazine	1.95	2.35		ug/L		121	70 - 130
Thiobencarb	1.95	2.31		ug/L		118	70 - 130
trans-Nonachlor	1.95	2.09		ug/L		107	70 - 130
Trifluralin	1.95	1.98		ug/L		102	70 - 130
1-Methylnaphthalene	1.95	1.96		ug/L		101	70 - 130
2-Methylnaphthalene	1.95	1.99		ug/L		102	70 - 130

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QC Sample Results

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

Job ID: 380-143933-1
SDG: Quarterly

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

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
2-Nitro-m-xylene	98		70 - 130
Perylene-d12	96		70 - 130
Triphenylphosphate	106		70 - 130

Lab Sample ID: MRL 380-145789/22-A
Matrix: Water
Analysis Batch: 145979

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 145789

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
2,4'-DDD	0.0975	0.0907	J	ug/L		93	50 - 150
2,4'-DDE	0.0975	0.101		ug/L		103	50 - 150
2,4'-DDT	0.0975	0.100		ug/L		103	50 - 150
2,4-Dinitrotoluene	0.0975	0.0967	J	ug/L		99	50 - 150
2,6-Dinitrotoluene	0.0975	0.115		ug/L		118	50 - 150
4,4'-DDD	0.0975	0.112		ug/L		115	50 - 150
4,4'-DDE	0.0975	0.0927	J	ug/L		95	50 - 150
4,4'-DDT	0.0975	0.105		ug/L		107	50 - 150
Acenaphthene	0.0975	0.103		ug/L		106	50 - 150
Acenaphthylene	0.0975	0.0936	J	ug/L		96	50 - 150
Acetochlor	0.0975	0.110		ug/L		113	50 - 150
Alachlor	0.0488	0.0541		ug/L		111	50 - 150
alpha-BHC	0.0975	0.107		ug/L		110	50 - 150
alpha-Chlordane	0.0244	<0.028		ug/L		96	50 - 150
Anthracene	0.0195	0.0213		ug/L		109	50 - 150
Atrazine	0.0488	0.0562		ug/L		115	50 - 150
Benz(a)anthracene	0.0488	0.0549		ug/L		113	50 - 150
Benzo[a]pyrene	0.0195	0.0225		ug/L		115	50 - 150
Benzo[b]fluoranthene	0.0195	0.0206		ug/L		105	50 - 150
Benzo[g,h,i]perylene	0.0488	0.0499		ug/L		102	50 - 150
Benzo[k]fluoranthene	0.0195	0.0225		ug/L		116	50 - 150
beta-BHC	0.0975	0.116		ug/L		119	50 - 150
Bis(2-ethylhexyl) phthalate	0.585	0.609		ug/L		104	50 - 150
Aldrin	0.00975	<0.0098		ug/L		92	50 - 150
Bromacil	0.0975	0.115		ug/L		117	50 - 150
Butachlor	0.0488	0.0591		ug/L		121	50 - 150
Butylbenzylphthalate	0.488	0.549		ug/L		113	50 - 150
Chlorobenzilate	0.0975	0.105		ug/L		108	50 - 150
Chloroneb	0.0975	0.111		ug/L		114	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0975	0.0898	J	ug/L		92	50 - 150
Chlorpyrifos	0.0488	0.0516		ug/L		106	50 - 150
Chrysene	0.0195	0.0221		ug/L		113	50 - 150
delta-BHC	0.0975	0.104		ug/L		107	50 - 150
Di(2-ethylhexyl)adipate	0.585	0.636		ug/L		109	50 - 150
Dibenz(a,h)anthracene	0.0488	0.0499		ug/L		102	50 - 150
Diclorvos (DDVP)	0.0488	0.0587		ug/L		120	50 - 150
Dieldrin	0.00975	0.00889	J	ug/L		91	50 - 150
Diethylphthalate	0.488	0.557		ug/L		114	50 - 150
Dimethylphthalate	0.488	0.538		ug/L		110	50 - 150
Di-n-butyl phthalate	0.488	0.557	J	ug/L		114	49 - 243
Di-n-octyl phthalate	0.0975	0.0971	J	ug/L		100	50 - 150
Endosulfan I (Alpha)	0.0975	0.102		ug/L		104	50 - 150

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-143933-1
SDG: Quarterly

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

Lab Sample ID: MRL 380-145789/22-A

Matrix: Water

Analysis Batch: 145979

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 145789

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Endosulfan II (Beta)	0.0975	0.0968	J	ug/L		99	50 - 150
Endosulfan sulfate	0.0975	0.0950	J	ug/L		97	50 - 150
Endrin	0.00975	0.0105		ug/L		107	50 - 150
Endrin aldehyde	0.0975	0.0867	J	ug/L		89	50 - 150
EPTC	0.0975	0.104		ug/L		106	50 - 150
Fluoranthene	0.0975	0.104		ug/L		107	50 - 150
Fluorene	0.0488	0.0547		ug/L		112	50 - 150
gamma-BHC (Lindane)	0.00975	0.0112		ug/L		115	50 - 150
gamma-Chlordane	0.0244	0.0235	J	ug/L		96	50 - 150
Heptachlor	0.00975	0.00892	J	ug/L		92	50 - 150
Heptachlor epoxide (isomer B)	0.00975	0.0101		ug/L		103	50 - 150
Hexachlorobenzene	0.0488	0.0472	J	ug/L		97	50 - 150
Hexachlorocyclopentadiene	0.0488	0.0431	J	ug/L		88	50 - 150
Indeno[1,2,3-cd]pyrene	0.0488	0.0591		ug/L		121	50 - 150
Isophorone	0.0975	0.119		ug/L		122	50 - 150
Malathion	0.0975	0.101		ug/L		104	50 - 150
Methoxychlor	0.0488	0.0510		ug/L		105	50 - 150
Metolachlor	0.0488	0.0565		ug/L		116	50 - 150
Molinate	0.0975	0.105		ug/L		108	50 - 150
Naphthalene	0.0975	0.103		ug/L		106	50 - 150
Parathion	0.0975	0.0843	J	ug/L		87	50 - 150
Pendimethalin (Penoxaline)	0.0975	0.0859	J	ug/L		88	50 - 150
Phenanthrene	0.0390	0.0464		ug/L		119	50 - 150
Propachlor	0.0488	0.0540		ug/L		111	50 - 150
Pyrene	0.0488	0.0553		ug/L		113	50 - 150
Simazine	0.0488	0.0539		ug/L		111	50 - 150
Terbacil	0.0975	0.115		ug/L		118	50 - 150
Terbuthylazine	0.0975	0.114		ug/L		117	50 - 150
Thiobencarb	0.0975	0.105		ug/L		108	50 - 150
trans-Nonachlor	0.0244	<0.025		ug/L		100	50 - 150
Trifluralin	0.0975	0.0954	J	ug/L		98	50 - 150
1-Methylnaphthalene	0.0975	0.111		ug/L		114	50 - 150
2-Methylnaphthalene	0.0975	0.109		ug/L		112	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
2-Nitro-m-xylene	97		70 - 130
Perylene-d12	88		70 - 130
Triphenylphosphate	103		70 - 130

Lab Sample ID: 380-143838-R-1-A MSD

Matrix: Water

Analysis Batch: 145979

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 145789

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4'-DDD	<0.097		1.95	2.17		ug/L		111	70 - 130	2	20
2,4'-DDE	<0.097		1.95	2.17		ug/L		111	70 - 130	1	20
2,4'-DDT	<0.097		1.95	2.05		ug/L		105	70 - 130	0	20
2,4-Dinitrotoluene	<0.097		1.95	2.06		ug/L		106	70 - 130	0	20

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QC Sample Results

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

Job ID: 380-143933-1
SDG: Quarterly

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

Lab Sample ID: 380-143838-R-1-A MSD

Matrix: Water

Analysis Batch: 145979

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 145789

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,6-Dinitrotoluene	<0.097		1.95	2.04		ug/L		105	70 - 130	1	20
4,4'-DDD	<0.097		1.95	2.14		ug/L		110	70 - 130	1	20
4,4'-DDE	<0.097		1.95	2.18		ug/L		112	70 - 130	0	20
4,4'-DDT	<0.097		1.95	2.03		ug/L		104	70 - 130	1	20
Acenaphthene	<0.097		1.95	2.04		ug/L		104	70 - 130	0	20
Acenaphthylene	<0.097		1.95	2.06		ug/L		105	70 - 130	0	20
Acetochlor	<0.097		1.95	2.35		ug/L		120	70 - 130	3	20
Alachlor	<0.049		1.95	2.33		ug/L		119	70 - 130	0	20
alpha-BHC	<0.097		1.95	2.14		ug/L		110	70 - 130	1	20
alpha-Chlordane	<0.049		1.95	2.26		ug/L		116	70 - 130	0	20
Anthracene	<0.019		1.95	1.53		ug/L		78	70 - 130	3	20
Atrazine	<0.049		1.95	2.32		ug/L		119	70 - 130	0	20
Benz(a)anthracene	<0.049		1.95	1.99		ug/L		102	70 - 130	1	20
Benzo[a]pyrene	<0.019		1.95	1.90		ug/L		97	70 - 130	2	20
Benzo[b]fluoranthene	<0.019		1.95	2.40		ug/L		123	70 - 130	1	20
Benzo[g,h,i]perylene	<0.049		1.95	2.10		ug/L		107	70 - 130	0	20
Benzo[k]fluoranthene	<0.019		1.95	2.02		ug/L		103	70 - 130	0	20
beta-BHC	<0.097		1.95	2.25		ug/L		115	70 - 130	1	20
Bis(2-ethylhexyl) phthalate	<0.58		1.95	2.12		ug/L		109	70 - 130	1	20
Aldrin	<0.0097		1.95	1.85		ug/L		95	70 - 130	2	20
Bromacil	<0.097		1.95	2.20		ug/L		112	70 - 130	1	20
Butachlor	<0.049		1.95	2.36		ug/L		121	70 - 130	0	20
Butylbenzylphthalate	<0.49		1.95	2.29		ug/L		117	70 - 130	0	20
Chlorobenzilate	<0.097		1.95	2.25		ug/L		115	70 - 130	1	20
Chloroneb	<0.097		1.95	2.07		ug/L		106	70 - 130	1	20
Chlorothalonil (Draconil, Bravo)	<0.097		1.95	2.23		ug/L		114	70 - 130	2	20
Chlorpyrifos	<0.049		1.95	2.27		ug/L		116	70 - 130	0	20
Chrysene	<0.019		1.95	2.07		ug/L		106	70 - 130	2	20
delta-BHC	<0.097		1.95	2.15		ug/L		110	70 - 130	0	20
Di(2-ethylhexyl)adipate	<0.58		1.95	2.27		ug/L		113	70 - 130	0	20
Dibenz(a,h)anthracene	<0.049		1.95	2.22		ug/L		114	70 - 130	0	20
Diclorvos (DDVP)	<0.049		1.95	2.06		ug/L		106	70 - 130	1	20
Dieldrin	<0.0097		1.95	2.17		ug/L		111	70 - 130	0	20
Diethylphthalate	<0.49		1.95	2.25		ug/L		115	70 - 130	1	20
Dimethylphthalate	<0.49		1.95	2.17		ug/L		111	70 - 130	2	20
Di-n-butyl phthalate	<0.97		3.91	4.23		ug/L		108	70 - 130	0	20
Di-n-octyl phthalate	<0.097		1.95	2.09		ug/L		107	70 - 130	0	20
Endosulfan I (Alpha)	<0.097		1.95	2.16		ug/L		111	70 - 130	0	20
Endosulfan II (Beta)	<0.097		1.95	2.25		ug/L		115	70 - 130	1	20
Endosulfan sulfate	<0.097		1.95	2.22		ug/L		114	70 - 130	2	20
Endrin	<0.0097		1.95	2.19		ug/L		112	70 - 130	1	20
Endrin aldehyde	<0.097		1.95	1.92		ug/L		98	60 - 130	3	20
EPTC	<0.097		1.95	2.15		ug/L		110	70 - 130	1	20
Fluoranthene	<0.097		1.95	2.22		ug/L		114	70 - 130	2	20
Fluorene	<0.049		1.95	2.16		ug/L		111	70 - 130	2	20
gamma-BHC (Lindane)	<0.0097		1.95	2.11		ug/L		108	70 - 130	1	20
gamma-Chlordane	<0.049		1.95	2.20		ug/L		113	70 - 130	0	20
Heptachlor	<0.0097		1.95	2.15		ug/L		110	70 - 130	1	20
Heptachlor epoxide (isomer B)	<0.0097		1.95	2.20		ug/L		113	70 - 130	1	20

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QC Sample Results

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

Job ID: 380-143933-1
SDG: Quarterly

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

Lab Sample ID: 380-143838-R-1-A MSD

Matrix: Water

Analysis Batch: 145979

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 145789

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Hexachlorobenzene	<0.049		1.95	2.07		ug/L		106	70 - 130	1	20
Hexachlorocyclopentadiene	<0.049		1.95	1.91		ug/L		98	70 - 130	2	20
Indeno[1,2,3-cd]pyrene	<0.049		1.95	2.14		ug/L		110	70 - 130	1	20
Isophorone	<0.097		1.95	2.06		ug/L		105	70 - 130	1	20
Malathion	<0.097		1.95	2.35		ug/L		120	70 - 130	0	20
Methoxychlor	<0.049		1.95	2.13		ug/L		109	70 - 130	0	20
Metolachlor	<0.049		1.95	2.39		ug/L		122	70 - 130	1	20
Molinate	<0.097		1.95	2.14		ug/L		109	70 - 130	1	20
Naphthalene	<0.097		1.95	1.90		ug/L		97	70 - 130	1	20
Parathion	<0.097		1.95	2.23		ug/L		114	70 - 130	1	20
Pendimethalin (Penoxaline)	<0.097		1.95	2.11		ug/L		108	70 - 130	1	20
Phenanthrene	<0.039		1.95	1.97		ug/L		101	70 - 130	2	20
Propachlor	<0.049		1.95	2.28		ug/L		117	70 - 130	1	20
Pyrene	<0.049		1.95	2.26		ug/L		116	70 - 130	2	20
Simazine	<0.049		1.95	2.36		ug/L		121	70 - 130	1	20
Terbacil	<0.097		1.95	2.15		ug/L		110	70 - 130	3	20
Terbuthylazine	<0.097		1.95	2.35		ug/L		120	70 - 130	1	20
Thiobencarb	<0.097		1.95	2.28		ug/L		117	70 - 130	1	20
trans-Nonachlor	<0.049		1.95	2.18		ug/L		112	70 - 130	0	20
Trifluralin	<0.097		1.95	2.07		ug/L		106	70 - 130	2	20
1-Methylnaphthalene	<0.097		1.95	2.00		ug/L		102	70 - 130	1	20
2-Methylnaphthalene	<0.097		1.95	2.02		ug/L		103	70 - 130	1	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Nitro-m-xylene	98		70 - 130
Perylene-d12	94		70 - 130
Triphenylphosphate	107		70 - 130

Lab Sample ID: 380-143838-S-1-A MS

Matrix: Water

Analysis Batch: 145979

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 145789

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
2,4'-DDD	<0.097		1.97	2.20		ug/L		112	70 - 130
2,4'-DDE	<0.097		1.97	2.18		ug/L		111	70 - 130
2,4'-DDT	<0.097		1.97	2.05		ug/L		104	70 - 130
2,4-Dinitrotoluene	<0.097		1.97	2.06		ug/L		105	70 - 130
2,6-Dinitrotoluene	<0.097		1.97	2.06		ug/L		105	70 - 130
4,4'-DDD	<0.097		1.97	2.17		ug/L		110	70 - 130
4,4'-DDE	<0.097		1.97	2.17		ug/L		111	70 - 130
4,4'-DDT	<0.097		1.97	2.06		ug/L		105	70 - 130
Acenaphthene	<0.097		1.97	2.04		ug/L		104	70 - 130
Acenaphthylene	<0.097		1.97	2.06		ug/L		104	70 - 130
Acetochlor	<0.097		1.97	2.27		ug/L		116	70 - 130
Alachlor	<0.049		1.97	2.33		ug/L		118	70 - 130
alpha-BHC	<0.097		1.97	2.13		ug/L		108	70 - 130
alpha-Chlordane	<0.049		1.97	2.27		ug/L		115	70 - 130
Anthracene	<0.019		1.97	1.49		ug/L		76	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-143933-1
SDG: Quarterly

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

Lab Sample ID: 380-143838-S-1-A MS

Matrix: Water

Analysis Batch: 145979

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 145789

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Atrazine	<0.049		1.97	2.33		ug/L		118	70 - 130
Benz(a)anthracene	<0.049		1.97	2.01		ug/L		102	70 - 130
Benzo[a]pyrene	<0.019		1.97	1.87		ug/L		95	70 - 130
Benzo[b]fluoranthene	<0.019		1.97	2.43		ug/L		124	70 - 130
Benzo[g,h,i]perylene	<0.049		1.97	2.09		ug/L		106	70 - 130
Benzo[k]fluoranthene	<0.019		1.97	2.01		ug/L		102	70 - 130
beta-BHC	<0.097		1.97	2.22		ug/L		113	70 - 130
Bis(2-ethylhexyl) phthalate	<0.58		1.97	2.09		ug/L		106	70 - 130
Aldrin	<0.0097		1.97	1.89		ug/L		96	70 - 130
Bromacil	<0.097		1.97	2.23		ug/L		113	70 - 130
Butachlor	<0.049		1.97	2.36		ug/L		120	70 - 130
Butylbenzylphthalate	<0.49		1.97	2.29		ug/L		116	70 - 130
Chlorobenzilate	<0.097		1.97	2.28		ug/L		116	70 - 130
Chloroneb	<0.097		1.97	2.05		ug/L		104	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.097		1.97	2.28		ug/L		116	70 - 130
Chlorpyrifos	<0.049		1.97	2.26		ug/L		115	70 - 130
Chrysene	<0.019		1.97	2.10		ug/L		107	70 - 130
delta-BHC	<0.097		1.97	2.15		ug/L		109	70 - 130
Di(2-ethylhexyl)adipate	<0.58		1.97	2.26		ug/L		111	70 - 130
Dibenz(a,h)anthracene	<0.049		1.97	2.21		ug/L		113	70 - 130
Diclorvos (DDVP)	<0.049		1.97	2.07		ug/L		105	70 - 130
Dieldrin	<0.0097		1.97	2.16		ug/L		110	70 - 130
Diethylphthalate	<0.49		1.97	2.22		ug/L		113	70 - 130
Dimethylphthalate	<0.49		1.97	2.21		ug/L		112	70 - 130
Di-n-butyl phthalate	<0.97		3.94	4.23		ug/L		108	70 - 130
Di-n-octyl phthalate	<0.097		1.97	2.08		ug/L		106	70 - 130
Endosulfan I (Alpha)	<0.097		1.97	2.16		ug/L		110	70 - 130
Endosulfan II (Beta)	<0.097		1.97	2.23		ug/L		114	70 - 130
Endosulfan sulfate	<0.097		1.97	2.27		ug/L		115	70 - 130
Endrin	<0.0097		1.97	2.21		ug/L		112	70 - 130
Endrin aldehyde	<0.097		1.97	1.98		ug/L		100	60 - 130
EPTC	<0.097		1.97	2.14		ug/L		109	70 - 130
Fluoranthene	<0.097		1.97	2.26		ug/L		115	70 - 130
Fluorene	<0.049		1.97	2.13		ug/L		108	70 - 130
gamma-BHC (Lindane)	<0.0097		1.97	2.10		ug/L		107	70 - 130
gamma-Chlordane	<0.049		1.97	2.21		ug/L		112	70 - 130
Heptachlor	<0.0097		1.97	2.12		ug/L		108	70 - 130
Heptachlor epoxide (isomer B)	<0.0097		1.97	2.22		ug/L		113	70 - 130
Hexachlorobenzene	<0.049		1.97	2.04		ug/L		104	70 - 130
Hexachlorocyclopentadiene	<0.049		1.97	1.88		ug/L		96	70 - 130
Indeno[1,2,3-cd]pyrene	<0.049		1.97	2.13		ug/L		108	70 - 130
Isophorone	<0.097		1.97	2.09		ug/L		106	70 - 130
Malathion	<0.097		1.97	2.36		ug/L		120	70 - 130
Methoxychlor	<0.049		1.97	2.14		ug/L		109	70 - 130
Metolachlor	<0.049		1.97	2.41		ug/L		123	70 - 130
Molinate	<0.097		1.97	2.15		ug/L		109	70 - 130
Naphthalene	<0.097		1.97	1.91		ug/L		97	70 - 130
Parathion	<0.097		1.97	2.21		ug/L		112	70 - 130
Pendimethalin (Penoxaline)	<0.097		1.97	2.09		ug/L		106	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-143933-1
SDG: Quarterly

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

Lab Sample ID: 380-143838-S-1-A MS

Matrix: Water

Analysis Batch: 145979

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 145789

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Phenanthrene	<0.039		1.97	2.00		ug/L		102	70 - 130
Propachlor	<0.049		1.97	2.27		ug/L		115	70 - 130
Pyrene	<0.049		1.97	2.29		ug/L		117	70 - 130
Simazine	<0.049		1.97	2.33		ug/L		119	70 - 130
Terbacil	<0.097		1.97	2.23		ug/L		113	70 - 130
Terbuthylazine	<0.097		1.97	2.33		ug/L		119	70 - 130
Thiobencarb	<0.097		1.97	2.31		ug/L		117	70 - 130
trans-Nonachlor	<0.049		1.97	2.18		ug/L		111	70 - 130
Trifluralin	<0.097		1.97	2.04		ug/L		103	70 - 130
1-Methylnaphthalene	<0.097		1.97	2.02		ug/L		102	70 - 130
2-Methylnaphthalene	<0.097		1.97	2.04		ug/L		103	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Nitro-m-xylene	98		70 - 130
Perylene-d12	93		70 - 130
Triphenylphosphate	107		70 - 130

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

Lab Sample ID: MB 570-555182/1-A

Matrix: Water

Analysis Batch: 559286

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 555182

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	04/08/25 13:10	04/17/25 21:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	79		33 - 139	04/08/25 13:10	04/17/25 21:08	1
2-Fluorobiphenyl (Surr)	79		33 - 126	04/08/25 13:10	04/17/25 21:08	1
2-Fluorophenol (Surr)	42		12 - 120	04/08/25 13:10	04/17/25 21:08	1
Nitrobenzene-d5 (Surr)	74		36 - 120	04/08/25 13:10	04/17/25 21:08	1
Phenol-d6 (Surr)	21		10 - 120	04/08/25 13:10	04/17/25 21:08	1
p-Terphenyl-d14 (Surr)	85		47 - 131	04/08/25 13:10	04/17/25 21:08	1

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

Lab Sample ID: MB 570-555182/1-A

Matrix: Water

Analysis Batch: 557573

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 555182

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.20		0.20	ug/L		04/08/25 13:10	04/14/25 15:36	1
2,4,5-Trichlorophenol	<5.0		5.0	ug/L		04/08/25 13:10	04/14/25 15:36	1
2,4,6-Trichlorophenol	<1.0		1.0	ug/L		04/08/25 13:10	04/14/25 15:36	1
2,4-Dichlorophenol	<1.0		1.0	ug/L		04/08/25 13:10	04/14/25 15:36	1
2,4-Dinitrophenol	<5.0		5.0	ug/L		04/08/25 13:10	04/14/25 15:36	1
2,6-Dichlorophenol	<5.0		5.0	ug/L		04/08/25 13:10	04/14/25 15:36	1
2-Chloronaphthalene	<0.20		0.20	ug/L		04/08/25 13:10	04/14/25 15:36	1

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-143933-1
SDG: Quarterly

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

Lab Sample ID: MB 570-555182/1-A

Matrix: Water

Analysis Batch: 557573

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 555182

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorophenol	<0.20		0.20	ug/L		04/08/25 13:10	04/14/25 15:36	1
2-Methylnaphthalene	<0.20		0.20	ug/L		04/08/25 13:10	04/14/25 15:36	1
2-Methylphenol	<1.0		1.0	ug/L		04/08/25 13:10	04/14/25 15:36	1
2-Nitroaniline	<5.0		5.0	ug/L		04/08/25 13:10	04/14/25 15:36	1
2-Nitrophenol	<5.0		5.0	ug/L		04/08/25 13:10	04/14/25 15:36	1
3/4-Methylphenol	<2.0		2.0	ug/L		04/08/25 13:10	04/14/25 15:36	1
3-Nitroaniline	<5.0		5.0	ug/L		04/08/25 13:10	04/14/25 15:36	1
4,6-Dinitro-2-methylphenol	<5.0		5.0	ug/L		04/08/25 13:10	04/14/25 15:36	1
4-Bromophenyl phenyl ether	<0.20		0.20	ug/L		04/08/25 13:10	04/14/25 15:36	1
4-Chloro-3-methylphenol	<1.0		1.0	ug/L		04/08/25 13:10	04/14/25 15:36	1
4-Chloroaniline	<5.0		5.0	ug/L		04/08/25 13:10	04/14/25 15:36	1
4-Chlorophenyl phenyl ether	<0.20		0.20	ug/L		04/08/25 13:10	04/14/25 15:36	1
4-Nitroaniline	<5.0		5.0	ug/L		04/08/25 13:10	04/14/25 15:36	1
4-Nitrophenol	<5.0		5.0	ug/L		04/08/25 13:10	04/14/25 15:36	1
Acenaphthene	<0.20		0.20	ug/L		04/08/25 13:10	04/14/25 15:36	1
Acenaphthylene	<0.20		0.20	ug/L		04/08/25 13:10	04/14/25 15:36	1
Aniline	0.366	B	0.20	ug/L		04/08/25 13:10	04/14/25 15:36	1
Anthracene	<0.20		0.20	ug/L		04/08/25 13:10	04/14/25 15:36	1
Benzidine	<5.0		5.0	ug/L		04/08/25 13:10	04/14/25 15:36	1
Benzo[a]anthracene	<0.20		0.20	ug/L		04/08/25 13:10	04/14/25 15:36	1
Benzo[a]pyrene	<0.20		0.20	ug/L		04/08/25 13:10	04/14/25 15:36	1
Benzo[b]fluoranthene	<0.20		0.20	ug/L		04/08/25 13:10	04/14/25 15:36	1
Benzo[g,h,i]perylene	<0.20		0.20	ug/L		04/08/25 13:10	04/14/25 15:36	1
Benzo[k]fluoranthene	<0.20		0.20	ug/L		04/08/25 13:10	04/14/25 15:36	1
Benzoic acid	<10		10	ug/L		04/08/25 13:10	04/14/25 15:36	1
Benzyl alcohol	<1.0		1.0	ug/L		04/08/25 13:10	04/14/25 15:36	1
Bis(2-chloroethoxy)methane	<0.20		0.20	ug/L		04/08/25 13:10	04/14/25 15:36	1
Bis(2-chloroethyl)ether	<0.20		0.20	ug/L		04/08/25 13:10	04/14/25 15:36	1
bis (2-Chloroisopropyl) ether	<0.20		0.20	ug/L		04/08/25 13:10	04/14/25 15:36	1
Chrysene	<0.20		0.20	ug/L		04/08/25 13:10	04/14/25 15:36	1
Dibenz(a,h)anthracene	<0.20		0.20	ug/L		04/08/25 13:10	04/14/25 15:36	1
Dibenzofuran	<0.20		0.20	ug/L		04/08/25 13:10	04/14/25 15:36	1
Fluoranthene	<0.20		0.20	ug/L		04/08/25 13:10	04/14/25 15:36	1
Fluorene	<0.20		0.20	ug/L		04/08/25 13:10	04/14/25 15:36	1
Hexachloroethane	<0.20		0.20	ug/L		04/08/25 13:10	04/14/25 15:36	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20	ug/L		04/08/25 13:10	04/14/25 15:36	1
Naphthalene	<0.20		0.20	ug/L		04/08/25 13:10	04/14/25 15:36	1
Nitrobenzene	<0.20		0.20	ug/L		04/08/25 13:10	04/14/25 15:36	1
N-Nitrosodi-n-propylamine	<0.20		0.20	ug/L		04/08/25 13:10	04/14/25 15:36	1
N-Nitrosodiphenylamine	<0.20		0.20	ug/L		04/08/25 13:10	04/14/25 15:36	1
Pentachlorophenol	<1.0		1.0	ug/L		04/08/25 13:10	04/14/25 15:36	1
Phenanthrene	<0.20		0.20	ug/L		04/08/25 13:10	04/14/25 15:36	1
Phenol	<1.0		1.0	ug/L		04/08/25 13:10	04/14/25 15:36	1
Pyrene	<0.20		0.20	ug/L		04/08/25 13:10	04/14/25 15:36	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	100		28 - 127	04/08/25 13:10	04/14/25 15:36	1
2-Fluorobiphenyl (Surr)	88		31 - 120	04/08/25 13:10	04/14/25 15:36	1

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-143933-1
SDG: Quarterly

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

Lab Sample ID: MB 570-555182/1-A

Matrix: Water

Analysis Batch: 557573

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 555182

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	46		17 - 120	04/08/25 13:10	04/14/25 15:36	1
Nitrobenzene-d5 (Surr)	88		27 - 120	04/08/25 13:10	04/14/25 15:36	1
Phenol-d6 (Surr)	27		10 - 120	04/08/25 13:10	04/14/25 15:36	1
p-Terphenyl-d14 (Surr)	94		45 - 120	04/08/25 13:10	04/14/25 15:36	1

Lab Sample ID: LCS 570-555182/2-A

Matrix: Water

Analysis Batch: 558249

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 555182

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	20.0	15.9		ug/L		79	47 - 120
2,4,5-Trichlorophenol	20.0	16.9		ug/L		85	57 - 120
2,4,6-Trichlorophenol	20.0	16.0		ug/L		80	52 - 129
2,4-Dichlorophenol	20.0	17.3		ug/L		87	53 - 122
2,4-Dinitrophenol	20.0	16.1		ug/L		81	1 - 173
2,6-Dichlorophenol	20.0	17.1		ug/L		86	50 - 120
2-Chloronaphthalene	20.0	16.1		ug/L		81	65 - 120
2-Chlorophenol	20.0	17.2		ug/L		86	36 - 120
2-Methylnaphthalene	20.0	18.0		ug/L		90	43 - 120
2-Methylphenol	20.0	15.2		ug/L		76	46 - 120
2-Nitroaniline	20.0	14.7		ug/L		73	51 - 125
2-Nitrophenol	20.0	15.9		ug/L		79	45 - 167
3/4-Methylphenol	40.0	27.7		ug/L		69	29 - 120
3-Nitroaniline	20.0	4.36	J *	ug/L		22	62 - 129
4,6-Dinitro-2-methylphenol	20.0	14.3		ug/L		71	53 - 130
4-Bromophenyl phenyl ether	20.0	16.5		ug/L		82	65 - 120
4-Chloro-3-methylphenol	20.0	16.7		ug/L		84	41 - 128
4-Chloroaniline	20.0	1.19	J *	ug/L		6	51 - 120
4-Chlorophenyl phenyl ether	20.0	16.5		ug/L		82	38 - 145
4-Nitroaniline	20.0	8.36	*-	ug/L		42	64 - 129
4-Nitrophenol	20.0	7.90		ug/L		39	13 - 129
Acenaphthene	20.0	16.2		ug/L		81	60 - 132
Acenaphthylene	20.0	15.2		ug/L		76	54 - 126
Aniline	20.0	0.207	*-	ug/L		1	52 - 121
Anthracene	20.0	16.0		ug/L		80	43 - 120
Benzidine	20.0	<0.94	*-	ug/L		0	20 - 164
Benzo[a]anthracene	20.0	16.6		ug/L		83	42 - 133
Benzo[a]pyrene	20.0	16.4		ug/L		82	32 - 148
Benzo[b]fluoranthene	20.0	17.2		ug/L		86	42 - 140
Benzo[g,h,i]perylene	20.0	17.5		ug/L		87	1 - 195
Benzo[k]fluoranthene	20.0	17.1		ug/L		86	25 - 146
Benzoic acid	20.0	7.77	J	ug/L		39	20 - 120
Benzyl alcohol	20.0	18.3		ug/L		91	44 - 122
Bis(2-chloroethoxy)methane	20.0	16.8		ug/L		84	49 - 165
Bis(2-chloroethyl)ether	20.0	17.1		ug/L		85	43 - 126
bis (2-Chloroisopropyl) ether	20.0	16.9		ug/L		84	63 - 139
Chrysene	20.0	16.5		ug/L		82	44 - 140
Dibenz(a,h)anthracene	20.0	18.1		ug/L		90	1 - 200

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-143933-1
SDG: Quarterly

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

Lab Sample ID: LCS 570-555182/2-A

Matrix: Water

Analysis Batch: 558249

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 555182

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dibenzofuran	20.0	16.1		ug/L		80	48 - 120
Fluoranthene	20.0	17.0		ug/L		85	43 - 121
Fluorene	20.0	16.2		ug/L		81	70 - 120
Hexachloroethane	20.0	14.7		ug/L		73	55 - 120
Indeno[1,2,3-cd]pyrene	20.0	18.1		ug/L		91	1 - 151
Naphthalene	20.0	16.1		ug/L		80	36 - 120
Nitrobenzene	20.0	17.7		ug/L		88	54 - 158
N-Nitrosodi-n-propylamine	20.0	16.4		ug/L		82	14 - 198
N-Nitrosodiphenylamine	20.0	16.0		ug/L		80	65 - 133
Pentachlorophenol	20.0	16.0		ug/L		80	38 - 152
Phenanthrene	20.0	16.1		ug/L		80	65 - 120
Phenol	20.0	7.13		ug/L		36	17 - 120
Pyrene	20.0	16.8		ug/L		84	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	79		28 - 127
2-Fluorobiphenyl (Surr)	84		31 - 120
2-Fluorophenol (Surr)	53		17 - 120
Nitrobenzene-d5 (Surr)	88		27 - 120
Phenol-d6 (Surr)	34		10 - 120
p-Terphenyl-d14 (Surr)	92		45 - 120

Lab Sample ID: LCSD 570-555182/3-A

Matrix: Water

Analysis Batch: 558249

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 555182

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	20.0	16.9		ug/L		85	47 - 120	6	20
2,4,5-Trichlorophenol	20.0	18.5		ug/L		92	57 - 120	9	20
2,4,6-Trichlorophenol	20.0	17.2		ug/L		86	52 - 129	7	35
2,4-Dichlorophenol	20.0	18.1		ug/L		91	53 - 122	4	30
2,4-Dinitrophenol	20.0	16.7		ug/L		84	1 - 173	3	79
2,6-Dichlorophenol	20.0	18.1		ug/L		91	50 - 120	6	20
2-Chloronaphthalene	20.0	17.4		ug/L		87	65 - 120	7	15
2-Chlorophenol	20.0	18.8		ug/L		94	36 - 120	9	37
2-Methylnaphthalene	20.0	19.7		ug/L		98	43 - 120	9	20
2-Methylphenol	20.0	16.6		ug/L		83	46 - 120	9	20
2-Nitroaniline	20.0	17.4		ug/L		87	51 - 125	17	20
2-Nitrophenol	20.0	17.3		ug/L		87	45 - 167	9	33
3/4-Methylphenol	40.0	30.3		ug/L		76	29 - 120	9	20
3-Nitroaniline	20.0	9.58	*- *1	ug/L		48	62 - 129	75	20
4,6-Dinitro-2-methylphenol	20.0	15.5		ug/L		78	53 - 130	9	122
4-Bromophenyl phenyl ether	20.0	17.3		ug/L		86	65 - 120	5	26
4-Chloro-3-methylphenol	20.0	17.7		ug/L		88	41 - 128	5	44
4-Chloroaniline	20.0	2.03	J *- *1	ug/L		10	51 - 120	52	20
4-Chlorophenyl phenyl ether	20.0	17.5		ug/L		87	38 - 145	6	36
4-Nitroaniline	20.0	16.0	*1	ug/L		80	64 - 129	63	20
4-Nitrophenol	20.0	8.43		ug/L		42	13 - 129	6	79

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-143933-1
SDG: Quarterly

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

Lab Sample ID: LCSD 570-555182/3-A

Matrix: Water

Analysis Batch: 558249

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 555182

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acenaphthene	20.0	17.0		ug/L		85	60 - 132	5	29
Acenaphthylene	20.0	15.9		ug/L		80	54 - 126	4	45
Aniline	20.0	0.233	*-	ug/L		1	52 - 121	12	21
Anthracene	20.0	17.0		ug/L		85	43 - 120	6	40
Benzidine	20.0	2.56	J *- *1	ug/L		13	20 - 164	200	30
Benzo[a]anthracene	20.0	17.5		ug/L		87	42 - 133	5	32
Benzo[a]pyrene	20.0	17.3		ug/L		86	32 - 148	5	43
Benzo[b]fluoranthene	20.0	18.4		ug/L		92	42 - 140	7	43
Benzo[g,h,i]perylene	20.0	18.0		ug/L		90	1 - 195	3	61
Benzo[k]fluoranthene	20.0	18.0		ug/L		90	25 - 146	5	38
Benzoic acid	20.0	7.86	J	ug/L		39	20 - 120	1	30
Benzyl alcohol	20.0	19.8		ug/L		99	44 - 122	8	20
Bis(2-chloroethoxy)methane	20.0	18.0		ug/L		90	49 - 165	7	32
Bis(2-chloroethyl)ether	20.0	19.4		ug/L		97	43 - 126	13	65
bis (2-Chloroisopropyl) ether	20.0	18.6		ug/L		93	63 - 139	10	46
Chrysene	20.0	17.6		ug/L		88	44 - 140	7	53
Dibenz(a,h)anthracene	20.0	18.5		ug/L		93	1 - 200	2	75
Dibenzofuran	20.0	17.4		ug/L		87	48 - 120	8	20
Fluoranthene	20.0	18.0		ug/L		90	43 - 121	6	40
Fluorene	20.0	17.4		ug/L		87	70 - 120	7	23
Hexachloroethane	20.0	16.8		ug/L		84	55 - 120	13	32
Indeno[1,2,3-cd]pyrene	20.0	19.1		ug/L		95	1 - 151	5	60
Naphthalene	20.0	16.9		ug/L		84	36 - 120	5	39
Nitrobenzene	20.0	18.6		ug/L		93	54 - 158	5	37
N-Nitrosodi-n-propylamine	20.0	19.1		ug/L		96	14 - 198	15	52
N-Nitrosodiphenylamine	20.0	20.4	*1	ug/L		102	65 - 133	24	20
Pentachlorophenol	20.0	17.5		ug/L		88	38 - 152	9	52
Phenanthrene	20.0	17.6		ug/L		88	65 - 120	9	24
Phenol	20.0	7.96		ug/L		40	17 - 120	11	39
Pyrene	20.0	18.0		ug/L		90	70 - 120	6	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	87		28 - 127
2-Fluorobiphenyl (Surr)	92		31 - 120
2-Fluorophenol (Surr)	60		17 - 120
Nitrobenzene-d5 (Surr)	94		27 - 120
Phenol-d6 (Surr)	39		10 - 120
p-Terphenyl-d14 (Surr)	98		45 - 120

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

Lab Sample ID: MB 570-558265/6

Matrix: Water

Analysis Batch: 558265

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			04/15/25 15:49	1

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-143933-1
SDG: Quarterly

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

Lab Sample ID: MB 570-558265/6

Matrix: Water

Analysis Batch: 558265

Client Sample ID: Method Blank

Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		38 - 134		04/15/25 15:49	1

Lab Sample ID: LCS 570-558265/4

Matrix: Water

Analysis Batch: 558265

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

			Spike	LCS	LCS				%Rec		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (C4-C13)			400	337		ug/L		84	78 - 120		

Lab Sample ID: LCSD 570-558265/5

Matrix: Water

Analysis Batch: 558265

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

			Spike	LCSD	LCSD				%Rec	RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (C4-C13)			400	336		ug/L	-	84	78 - 120	0	10
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	90		38 - 134								

Lab Sample ID: MRL 570-558265/3

Matrix: Water

Analysis Batch: 558265

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

			Spike	MRL	MRL				%Rec		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	%Rec	Limits	
Gasoline Range Organics (C4-C13)			10.0	10.8		ug/L		108		50 - 150	
Surrogate	MRL	MRL									
	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	87		38 - 134								

Lab Sample ID: 380-144829-C-3 MS

Matrix: Water

Analysis Batch: 558265

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	299		ug/L		75	68 - 122		
Surrogate	MS %Recovery	MS Qualifier	Limits								
4-Bromofluorobenzene (Surr)	91		38 - 134								

QC Sample Results

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

Job ID: 380-143933-1
SDG: Quarterly

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

Lab Sample ID: 380-144829-C-3 MSD

Matrix: Water

Analysis Batch: 558265

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	342		ug/L		85	68 - 122	13	18
Surrogate	%Recovery	MSD Qualifier	MSD Limits								
4-Bromofluorobenzene (Surr)	93		38 - 134								

Method: 504.1 - EDB, DBCP and 1,2,3-TCP (GC)

Lab Sample ID: MBL 380-146213/4-A

Matrix: Water

Analysis Batch: 146555

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 146213

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	<0.0040		0.020	ug/L		04/09/25 11:50	04/09/25 14:08	1
1,2-Dibromo-3-Chloropropane	<0.0020		0.010	ug/L		04/09/25 11:50	04/09/25 14:08	1
1,2-Dibromoethane	<0.0040		0.010	ug/L		04/09/25 11:50	04/09/25 14:08	1
Surrogate	%Recovery	MBL Qualifier	MBL Limits	Prepared	Analyzed	Dil Fac		
1,2-Dibromopropane (Surr)	98		60 - 140	04/09/25 11:50	04/09/25 14:08	1		

Lab Sample ID: LCS 380-146213/29-A

Matrix: Water

Analysis Batch: 146555

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 146213

			Spike	LCS	LCS					%Rec		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits			
1,2,3-Trichloropropane			0.200	0.224		ug/L		112	70 - 130			
1,2-Dibromo-3-Chloropropane			0.200	0.197		ug/L		99	70 - 130			
1,2-Dibromoethane			0.200	0.206		ug/L		103	70 - 130			
								</				

Lab Sample ID: MRL 380-146213/2-A

Matrix: Water

Analysis Batch: 146555

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 146213

			Spike	MRL	MRL				%Rec		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
1,2,3-Trichloropropane			0.0200	0.0223		ug/L		111	60 - 140		
	MRL	MRL									
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dibromopropane (Surr)	105		60 - 140								

Lab Sample ID: MRL 380-146213/3-A

Matrix: Water

Analysis Batch: 146555

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 146213

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
1,2,3-Trichloropropane	0.0500	0.0518		ug/L		104	60 - 140		

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QC Sample Results

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

Job ID: 380-143933-1
SDG: Quarterly

Method: 504.1 - EDB, DBCP and 1,2,3-TCP (GC) (Continued)

Lab Sample ID: MRL 380-146213/3-A

Matrix: Water

Analysis Batch: 146555

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 146213

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromo-3-Chloropropane	0.0100	0.0102		ug/L		102	60 - 140
1,2-Dibromoethane	0.0100	0.00972	J	ug/L		97	60 - 140
Surrogate	MRL %Recovery	MRL Qualifier	Limits				
1,2-Dibromopropane (Surr)	105		60 - 140				

Lab Sample ID: 380-144238-DR-1-A MS

Matrix: Water

Analysis Batch: 146555

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 146213

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec		
	Result	Qualifier	Added	Result	Qualifier				Limits		
1,2,3-Trichloropropane	<0.020		1.26	1.29		ug/L		102	65 - 135		
1,2-Dibromo-3-Chloropropane	<0.010		0.252	0.251		ug/L		99	65 - 135		
1,2-Dibromoethane	<0.010		0.252	0.249		ug/L		99	65 - 135		
Surrogate	MS	MS									
	%Recovery	Qualifier	Limits								
1,2-Dibromopropane (Surr)	99		60 - 140								

Lab Sample ID: 380-144238-DS-1-A DU

Matrix: Water

Analysis Batch: 146555

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 146213

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
1,2,3-Trichloropropane	<0.020		<0.020		ug/L		NC	20
1,2-Dibromo-3-Chloropropane	<0.010		<0.010		ug/L		NC	20
1,2-Dibromoethane	<0.010		<0.010		ug/L		NC	20
Surrogate	DU %Recovery	DU Qualifier	Limits					
1,2-Dibromopropane (Surr)	105		60 - 140					

Method: 505 - Organochlorine Pesticides/PCBs (GC)

Lab Sample ID: MB 380-146042/32-A

Matrix: Water

Analysis Batch: 146186

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 146042

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene	<0.50		0.50	ug/L		04/08/25 13:30	04/09/25 01:21	1
Chlordane (n.o.s.)	<0.10		0.10	ug/L		04/08/25 13:30	04/09/25 01:21	1
PCB-1016	<0.070		0.070	ug/L		04/08/25 13:30	04/09/25 01:21	1
PCB-1221	<0.10		0.10	ug/L		04/08/25 13:30	04/09/25 01:21	1
PCB-1232	<0.10		0.10	ug/L		04/08/25 13:30	04/09/25 01:21	1
PCB-1242	<0.10		0.10	ug/L		04/08/25 13:30	04/09/25 01:21	1
PCB-1248	<0.10		0.10	ug/L		04/08/25 13:30	04/09/25 01:21	1
PCB-1254	<0.10		0.10	ug/L		04/08/25 13:30	04/09/25 01:21	1
PCB-1260	<0.070		0.070	ug/L		04/08/25 13:30	04/09/25 01:21	1
Polychlorinated biphenyls, Total	<0.10		0.10	ug/L		04/08/25 13:30	04/09/25 01:21	1

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QC Sample Results

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

Job ID: 380-143933-1
SDG: Quarterly

Method: 505 - Organochlorine Pesticides/PCBs (GC) (Continued)

Lab Sample ID: MB 380-146042/32-A

Matrix: Water

Analysis Batch: 146186

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 146042

	MB	MB								
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac				
Tetrachloro-m-xylene	100		70 - 130	04/08/25 13:30	04/09/25 01:21	1				

Lab Sample ID: LCS 380-146042/16-A

Matrix: Water

Analysis Batch: 146186

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 146042

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Chlordane (n.o.s.)			0.500	0.443		ug/L		89	70 - 130	
Surrogate	LCS %Recovery	LCS Qualifier	Limits							
Tetrachloro-m-xylene	97		70 - 130							

Lab Sample ID: LCS 380-146042/24-A

Matrix: Water

Analysis Batch: 146186

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 146042

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
PCB-1254			0.500	0.484		ug/L		97	70 - 130	
Surrogate	LCS %Recovery	LCS Qualifier	Limits							
Tetrachloro-m-xylene	103		70 - 130							

Lab Sample ID: LCS 380-146042/57-A

Matrix: Water

Analysis Batch: 146186

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 146042

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Toxaphene			2.50	2.68		ug/L		107	70 - 130	
Surrogate	LCS %Recovery	LCS Qualifier	Limits							
Tetrachloro-m-xylene	100		70 - 130							

Lab Sample ID: LCS 380-146042/59-A

Matrix: Water

Analysis Batch: 146186

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 146042

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Chlordane (n.o.s.)			0.500	0.457		ug/L		91	70 - 130	
Surrogate	LCS %Recovery	LCS Qualifier	Limits							
Tetrachloro-m-xylene	101		70 - 130							

QC Sample Results

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

Job ID: 380-143933-1
SDG: Quarterly

Method: 505 - Organochlorine Pesticides/PCBs (GC) (Continued)

Lab Sample ID: LCS 380-146042/60-A

Matrix: Water

Analysis Batch: 146186

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 146042

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1254			0.500	0.526		ug/L		105	70 - 130		
Surrogate		LCS %Recovery	LCS Qualifier	Limits							
Tetrachloro-m-xylene		94		70 - 130							

Lab Sample ID: LCS 380-146042/8-A

Matrix: Water

Analysis Batch: 146186

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 146042

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Toxaphene			2.50	2.17		ug/L		87	70 - 130		
Surrogate		LCS %Recovery	LCS Qualifier	Limits							
Tetrachloro-m-xylene		96		70 - 130							

Lab Sample ID: LCSD 380-146042/58-A

Matrix: Water

Analysis Batch: 146186

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 146042

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toxaphene			2.50	2.48		ug/L		99	70 - 130	8	20
Surrogate		LCSD %Recovery	LCSD Qualifier	Limits							
Tetrachloro-m-xylene		94		70 - 130							

Lab Sample ID: MRL 380-146042/30-A

Matrix: Water

Analysis Batch: 146186

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 146042

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Toxaphene			0.500	0.500		ug/L		100	50 - 150		
Surrogate		MRL %Recovery	MRL Qualifier	Limits							
Tetrachloro-m-xylene		102		70 - 130							

Lab Sample ID: MRL 380-146042/31-A

Matrix: Water

Analysis Batch: 146186

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 146042

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Chlordane (n.o.s.)			0.100	0.107		ug/L		107	50 - 150		
Surrogate		MRL %Recovery	MRL Qualifier	Limits							
Tetrachloro-m-xylene		100		70 - 130							

QC Sample Results

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

Job ID: 380-143933-1
SDG: Quarterly

Method: 505 - Organochlorine Pesticides/PCBs (GC) (Continued)

Lab Sample ID: 380-143950-BO-1-A MS

Matrix: Water

Analysis Batch: 146186

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 146042

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Toxaphene	<0.50		2.46	2.65		ug/L		108	65 - 135
Surrogate	MS %Recovery	MS Qualifier	MS Limits						
Tetrachloro-m-xylene	90		70 - 130						

Lab Sample ID: 380-143950-BP-1-A MS

Matrix: Water

Analysis Batch: 146186

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 146042

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chlordane (n.o.s.)	<0.099		0.490	0.444		ug/L		91	65 - 135
Surrogate	MS %Recovery	MS Qualifier	MS Limits						
Tetrachloro-m-xylene	98		70 - 130						

Lab Sample ID: 380-143957-CP-1-A MS

Matrix: Water

Analysis Batch: 146186

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 146042

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Toxaphene	<0.50		2.46	2.50		ug/L		101	65 - 135
Surrogate	MS %Recovery	MS Qualifier	MS Limits						
Tetrachloro-m-xylene	93		70 - 130						

Lab Sample ID: 380-143957-CQ-1-A MS

Matrix: Water

Analysis Batch: 146186

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 146042

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chlordane (n.o.s.)	<0.099		0.489	0.454		ug/L		93	65 - 135
Surrogate	MS %Recovery	MS Qualifier	MS Limits						
Tetrachloro-m-xylene	99		70 - 130						

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

Lab Sample ID: MB 570-554296/1-A

Matrix: Water

Analysis Batch: 557672

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 554296

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<25		25	ug/L		04/06/25 17:06	04/14/25 15:26	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		04/06/25 17:06	04/14/25 15:26	1
C8-C18	<25		25	ug/L		04/06/25 17:06	04/14/25 15:26	1

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QC Sample Results

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

Job ID: 380-143933-1
SDG: Quarterly

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

Lab Sample ID: MB 570-554296/1-A

Matrix: Water

Analysis Batch: 557672

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 554296

	MB	MB								
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil	Fac			
n-Octacosane (Surr)	96		60 - 130	04/06/25 17:06	04/14/25 15:26	1				

Lab Sample ID: LCS 570-554296/2-A

Matrix: Water

Analysis Batch: 557672

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 554296

			Spike	LCS	LCS				%Rec	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
C10-C28			1600	1350		ug/L		84	56 - 127	
Surrogate	%Recovery	Qualifier	Limits							
n-Octacosane (Surr)	103		60 - 130							

Lab Sample ID: LCSD 570-554296/3-A

Matrix: Water

Analysis Batch: 557672

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 554296

			Spike	LCSD	LCSD				%Rec	RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	Limit
C10-C28			1600	1340		ug/L		84	56 - 127	23
Surrogate	%Recovery	Qualifier	Limits							
n-Octacosane (Surr)	106		60 - 130							

Lab Sample ID: MRL 570-554296/4-A

Matrix: Water

Analysis Batch: 557672

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 554296

			Spike	MRL	MRL				%Rec	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
C10-C28			0.0200	0.0308	^3+	mg/L		154	50 - 150	
Surrogate	%Recovery	Qualifier	Limits							
n-Octacosane (Surr)	106		60 - 130							

Lab Sample ID: 380-143376-B-3-B MS

Matrix: Water

Analysis Batch: 557672

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 554296

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
C10-C28	<26	^3+	1680	1400		ug/L		83	70 - 130	
Surrogate	%Recovery	Qualifier	Limits							
n-Octacosane (Surr)	104		60 - 130							

QC Sample Results

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

Job ID: 380-143933-1
SDG: Quarterly

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

Lab Sample ID: 380-143376-B-3-C MSD

Matrix: Water

Analysis Batch: 557672

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 554296

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28	<26	^3+	1680	1250		ug/L		74	70 - 130	11	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
n-Octacosane (Surr)	94		60 - 130								

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Lab Sample ID: MB 570-557182/3

Matrix: Water

Analysis Batch: 557182

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ethanol	<0.10		0.10	mg/L			04/12/25 15:20	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
Hexafluoro-2-propanol (Surr)	91		54 - 120				04/12/25 15:20	1

Lab Sample ID: LCS 570-557182/4

Matrix: Water

Analysis Batch: 557182

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ethanol	2.00	2.07		mg/L		103	78 - 131
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
Hexafluoro-2-propanol (Surr)	95		54 - 120				

Lab Sample ID: LCSD 570-557182/5

Matrix: Water

Analysis Batch: 557182

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
Ethanol	2.00	1.93		mg/L		96	78 - 131	4	25
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
Hexafluoro-2-propanol (Surr)	94		54 - 120						

Lab Sample ID: MRL 570-557182/6

Matrix: Water

Analysis Batch: 557182

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Ethanol	0.100	0.0808	J	mg/L		81	50 - 150
Surrogate	MRL %Recovery	MRL Qualifier	Limits				
Hexafluoro-2-propanol (Surr)	116		54 - 120				

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QC Sample Results

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

Job ID: 380-143933-1
SDG: Quarterly

Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC) (Continued)

Lab Sample ID: 380-143415-AC-1 MS

Matrix: Water

Analysis Batch: 557182

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		
Ethanol	<0.10		2.00	2.22		mg/L		111	20 - 173		
Surrogate	MS %Recovery	MS Qualifier	MS Limits								
Hexafluoro-2-propanol (Surr)	86		54 - 120								

Lab Sample ID: 380-143415-AC-1 MSD

Matrix: Water

Analysis Batch: 557182

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
Ethanol	<0.10		2.00	2.23		mg/L		111	20 - 173	1	21
Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits								
Hexafluoro-2-propanol (Surr)	88		54 - 120								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 380-145579/4

Matrix: Water

Analysis Batch: 145579

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.050		0.050	mg/L			04/04/25 11:03	1
Nitrite as N	<0.050		0.050	mg/L			04/04/25 11:03	1

Lab Sample ID: LCS 380-145579/7

Matrix: Water

Analysis Batch: 145579

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	2.50	2.56		mg/L		102	90 - 110
Nitrite as N	1.00	0.998		mg/L		100	90 - 110

Lab Sample ID: LCSD 380-145579/8

Matrix: Water

Analysis Batch: 145579

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
Nitrate as N	2.50	2.56		mg/L		103	90 - 110	0	20
Nitrite as N	1.00	0.998		mg/L		100	90 - 110	0	20

Lab Sample ID: MRL 380-145579/5

Matrix: Water

Analysis Batch: 145579

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	0.0125	0.0101	J	mg/L		81	50 - 150
Nitrite as N	0.0125	0.0121	J	mg/L		97	50 - 150

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QC Sample Results

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

Job ID: 380-143933-1
SDG: Quarterly

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MRL 380-145579/6

Matrix: Water

Analysis Batch: 145579

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	0.0500	0.0424	J	mg/L		85	50 - 150
Nitrite as N	0.0500	0.0527		mg/L		105	50 - 150

Lab Sample ID: 380-143926-E-1 MS

Matrix: Water

Analysis Batch: 145579

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
Nitrate as N	0.21		1.25	1.47		mg/L		101	80 - 120
Nitrite as N	<0.050		0.500	0.500		mg/L		100	80 - 120

Lab Sample ID: 380-143926-E-1 MSD

Matrix: Water

Analysis Batch: 145579

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
Nitrate as N	0.21		1.25	1.50		mg/L		103	80 - 120	2	20
Nitrite as N	<0.050		0.500	0.509		mg/L		102	80 - 120	2	20

Lab Sample ID: MB 380-145580/4

Matrix: Water

Analysis Batch: 145580

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.50		0.50	mg/L			04/04/25 11:03	1
Sulfate	<0.25		0.25	mg/L			04/04/25 11:03	1

Lab Sample ID: LCS 380-145580/7

Matrix: Water

Analysis Batch: 145580

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	25.0	27.1		mg/L		108	90 - 110
Sulfate	50.0	52.0		mg/L		104	90 - 110

Lab Sample ID: LCSD 380-145580/8

Matrix: Water

Analysis Batch: 145580

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
Chloride	25.0	27.1		mg/L		108	90 - 110	0	20
Sulfate	50.0	52.0		mg/L		104	90 - 110	0	20

Lab Sample ID: MRL 380-145580/5

Matrix: Water

Analysis Batch: 145580

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	0.125	0.118	J	mg/L		95	50 - 150
Sulfate	0.250	0.202	J	mg/L		81	50 - 150

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QC Sample Results

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

Job ID: 380-143933-1
SDG: Quarterly

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MRL 380-145580/6

Matrix: Water

Analysis Batch: 145580

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	0.500	0.447	J	mg/L		89	50 - 150
Sulfate	1.00	0.888		mg/L		89	50 - 150

Lab Sample ID: 380-143926-E-1 MS

Matrix: Water

Analysis Batch: 145580

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
Chloride	0.53		12.5	13.6		mg/L		104	80 - 120
Sulfate	<0.25		25.0	25.2		mg/L		101	80 - 120

Lab Sample ID: 380-143926-E-1 MSD

Matrix: Water

Analysis Batch: 145580

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
Chloride	0.53		12.5	13.9		mg/L		107	80 - 120	2	20
Sulfate	<0.25		25.0	26.0		mg/L		104	80 - 120	3	20

Lab Sample ID: MB 380-146132/6

Matrix: Water

Analysis Batch: 146132

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	<5.0		5.0	ug/L			04/08/25 23:48	1

Lab Sample ID: LCS 380-146132/7

Matrix: Water

Analysis Batch: 146132

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	100	98.1		ug/L		98	90 - 110

Lab Sample ID: LCSD 380-146132/8

Matrix: Water

Analysis Batch: 146132

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
Bromide	100	98.2		ug/L		98	90 - 110	0	10

Lab Sample ID: MRL 380-146132/5

Matrix: Water

Analysis Batch: 146132

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	5.00	4.94	J	ug/L		99	75 - 125

QC Sample Results

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

Job ID: 380-143933-1
SDG: Quarterly

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 380-143852-A-2 MS
Matrix: Water
Analysis Batch: 146132

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
Bromide	140		50.0	184		ug/L		94	80 - 120

Lab Sample ID: 380-143852-A-2 MSD
Matrix: Water
Analysis Batch: 146132

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
Bromide	140		50.0	185		ug/L		96	80 - 120	0	20

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MBL 380-145860/93
Matrix: Water
Analysis Batch: 145860

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

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<0.031		0.10	mg/L			04/07/25 12:32	1
Magnesium	0.0102	J B	0.10	mg/L			04/07/25 12:32	1
Potassium	<0.044		0.10	mg/L			04/07/25 12:32	1
Sodium	<0.019		0.10	mg/L			04/07/25 12:32	1

Lab Sample ID: LCS 380-145860/96
Matrix: Water
Analysis Batch: 145860

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	50.0	49.7		mg/L		99	85 - 115
Magnesium	20.0	19.9		mg/L		100	85 - 115
Potassium	20.0	19.7		mg/L		98	85 - 115
Sodium	50.0	49.2		mg/L		98	85 - 115

Lab Sample ID: LCSD 380-145860/97
Matrix: Water
Analysis Batch: 145860

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
Calcium	50.0	50.0		mg/L		100	85 - 115	0	20
Magnesium	20.0	19.9		mg/L		100	85 - 115	0	20
Potassium	20.0	19.9		mg/L		99	85 - 115	1	20
Sodium	50.0	49.6		mg/L		99	85 - 115	1	20

Lab Sample ID: LLCS 380-145860/94
Matrix: Water
Analysis Batch: 145860

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	0.100	0.0869	J	mg/L		87	50 - 150
Magnesium	0.100	0.0951	J	mg/L		95	50 - 150
Potassium	0.100	0.0649	J	mg/L		65	50 - 150
Sodium	0.100	0.100		mg/L		100	50 - 150

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QC Sample Results

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

Job ID: 380-143933-1
SDG: Quarterly

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: LLCS 380-145860/95
Matrix: Water
Analysis Batch: 145860

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Magnesium	0.100	0.104		mg/L		104	50 - 150

Lab Sample ID: 380-143907-B-1 MS
Matrix: Water
Analysis Batch: 145860

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
Calcium	160		50.0	202		mg/L		78	70 - 130
Magnesium	51	B ^2	20.0	67.4		mg/L		84	70 - 130
Potassium	4.8		20.0	24.6		mg/L		99	70 - 130
Sodium	120		50.0	159		mg/L		83	70 - 130

Lab Sample ID: 380-143907-B-1 MSD
Matrix: Water
Analysis Batch: 145860

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
Calcium	160		50.0	201		mg/L		77	70 - 130	0	20
Magnesium	51	B ^2	20.0	67.2		mg/L		82	70 - 130	0	20
Potassium	4.8		20.0	24.7		mg/L		99	70 - 130	1	20
Sodium	120		50.0	160		mg/L		84	70 - 130	0	20

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MBL 380-145977/32
Matrix: Water
Analysis Batch: 145977

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

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.48		1.0	ug/L			04/07/25 14:36	1
Arsenic	<0.25		1.0	ug/L			04/07/25 14:36	1
Beryllium	<0.12		0.30	ug/L			04/07/25 14:36	1
Cadmium	<0.081		0.50	ug/L			04/07/25 14:36	1
Chromium	<0.33		0.90	ug/L			04/07/25 14:36	1
Copper	<0.28		1.0	ug/L			04/07/25 14:36	1
Lead	<0.084		0.50	ug/L			04/07/25 14:36	1
Nickel	<0.38		1.0	ug/L			04/07/25 14:36	1
Selenium	<0.25		2.0	ug/L			04/07/25 14:36	1
Silver	<0.30		0.50	ug/L			04/07/25 14:36	1
Thallium	<0.10		0.30	ug/L			04/07/25 14:36	1
Zinc	<1.3		5.0	ug/L			04/07/25 14:36	1

Lab Sample ID: LCS 380-145977/34
Matrix: Water
Analysis Batch: 145977

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	50.0	49.4		ug/L		99	85 - 115
Arsenic	50.0	51.2		ug/L		102	85 - 115
Beryllium	50.0	53.4		ug/L		107	85 - 115

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QC Sample Results

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

Job ID: 380-143933-1
SDG: Quarterly

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 380-145977/34

Matrix: Water

Analysis Batch: 145977

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cadmium	50.0	50.8		ug/L		102	85 - 115
Chromium	50.0	50.6		ug/L		101	85 - 115
Copper	50.0	50.3		ug/L		101	85 - 115
Lead	50.0	50.3		ug/L		101	85 - 115
Nickel	50.0	50.7		ug/L		101	85 - 115
Selenium	50.0	51.7		ug/L		103	85 - 115
Silver	50.0	51.3		ug/L		103	85 - 115
Thallium	50.0	51.1		ug/L		102	85 - 115
Zinc	50.0	49.5		ug/L		99	85 - 115

Lab Sample ID: LCSD 380-145977/37

Matrix: Water

Analysis Batch: 145977

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
Antimony	50.0	49.6		ug/L		99	85 - 115	0	20
Arsenic	50.0	51.3		ug/L		103	85 - 115	0	20
Beryllium	50.0	53.8		ug/L		108	85 - 115	1	20
Cadmium	50.0	50.9		ug/L		102	85 - 115	0	20
Chromium	50.0	50.8		ug/L		102	85 - 115	0	20
Copper	50.0	50.2		ug/L		100	85 - 115	0	20
Lead	50.0	50.4		ug/L		101	85 - 115	0	20
Nickel	50.0	51.1		ug/L		102	85 - 115	1	20
Selenium	50.0	52.6		ug/L		105	85 - 115	2	20
Silver	50.0	50.9		ug/L		102	85 - 115	1	20
Thallium	50.0	51.3		ug/L		103	85 - 115	0	20
Zinc	50.0	49.7		ug/L		99	85 - 115	0	20

Lab Sample ID: LLCS 380-145977/33

Matrix: Water

Analysis Batch: 145977

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	1.00	1.02		ug/L		102	50 - 150
Arsenic	1.00	1.08		ug/L		108	50 - 150
Beryllium	0.300	0.306		ug/L		102	50 - 150
Cadmium	0.500	0.510		ug/L		102	50 - 150
Chromium	0.900	0.999		ug/L		111	50 - 150
Copper	1.00	1.03		ug/L		103	50 - 150
Lead	0.500	0.508		ug/L		102	50 - 150
Nickel	1.00	1.01		ug/L		101	50 - 150
Selenium	2.00	2.11		ug/L		105	50 - 150
Silver	0.500	0.521		ug/L		104	50 - 150
Thallium	0.300	0.305		ug/L		102	50 - 150
Zinc	4.99	4.99	J	ug/L		100	50 - 150

QC Sample Results

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

Job ID: 380-143933-1
SDG: Quarterly

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: 380-143907-B-1 MS

Matrix: Water

Analysis Batch: 145977

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
Antimony	<1.0		50.0	52.5		ug/L		105	70 - 130
Arsenic	4.5		50.0	64.5		ug/L		120	70 - 130
Beryllium	<0.30		50.0	47.6		ug/L		95	70 - 130
Cadmium	<0.50		50.0	51.9		ug/L		104	70 - 130
Chromium	2.1		50.0	52.2		ug/L		100	70 - 130
Copper	1.1		50.0	47.0		ug/L		92	70 - 130
Lead	<0.50		50.0	46.9		ug/L		94	70 - 130
Nickel	1.8		50.0	49.6		ug/L		96	70 - 130
Selenium	<2.0	F1	50.0	67.7	F1	ug/L		133	70 - 130
Silver	<0.50		50.0	48.3		ug/L		97	70 - 130
Thallium	<0.30		50.0	48.2		ug/L		96	70 - 130
Zinc	<5.0		50.0	49.9		ug/L		97	70 - 130

Lab Sample ID: 380-143907-B-1 MSD

Matrix: Water

Analysis Batch: 145977

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
Antimony	<1.0		50.0	54.2		ug/L		108	70 - 130	3	20
Arsenic	4.5		50.0	63.7		ug/L		118	70 - 130	1	20
Beryllium	<0.30		50.0	46.7		ug/L		93	70 - 130	2	20
Cadmium	<0.50		50.0	51.6		ug/L		103	70 - 130	1	20
Chromium	2.1		50.0	51.3		ug/L		98	70 - 130	2	20
Copper	1.1		50.0	46.4		ug/L		91	70 - 130	1	20
Lead	<0.50		50.0	46.1		ug/L		92	70 - 130	2	20
Nickel	1.8		50.0	48.7		ug/L		94	70 - 130	2	20
Selenium	<2.0	F1	50.0	67.3	F1	ug/L		132	70 - 130	1	20
Silver	<0.50		50.0	46.4		ug/L		93	70 - 130	4	20
Thallium	<0.30		50.0	47.4		ug/L		95	70 - 130	2	20
Zinc	<5.0		50.0	49.2		ug/L		95	70 - 130	1	20

Method: 200.8 - Mercury (ICP/MS)

Lab Sample ID: MBL 380-145978/32

Matrix: Water

Analysis Batch: 145978

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.079		0.20	ug/L			04/07/25 14:36	1

Lab Sample ID: LCS 380-145978/34

Matrix: Water

Analysis Batch: 145978

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	1.00	0.998		ug/L		100	85 - 115

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QC Sample Results

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

Job ID: 380-143933-1
SDG: Quarterly

Method: 200.8 - Mercury (ICP/MS) (Continued)

Lab Sample ID: LCSD 380-145978/37
Matrix: Water
Analysis Batch: 145978

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
Mercury	1.00	1.03		ug/L		103	85 - 115	3	20

Lab Sample ID: LLCS 380-145978/33
Matrix: Water
Analysis Batch: 145978

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury	0.200	0.198	J	ug/L		99	50 - 150		

Lab Sample ID: 380-143907-B-1 MS
Matrix: Water
Analysis Batch: 145978

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		
Mercury	<0.20		1.00	1.04		ug/L		104	70 - 130		

Lab Sample ID: 380-143907-B-1 MSD
Matrix: Water
Analysis Batch: 145978

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
Mercury	<0.20		1.00	1.09		ug/L		109	70 - 130	5	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 380-145796/1
Matrix: Water
Analysis Batch: 145796

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	<4.0		4.0	mg/L			04/04/25 17:05	1
Bicarbonate Alkalinity as CaCO3	<4.0		4.0	mg/L			04/04/25 17:05	1
Carbonate Alkalinity as CaCO3	<4.0		4.0	mg/L			04/04/25 17:05	1

Lab Sample ID: LCS 380-145796/4
Matrix: Water
Analysis Batch: 145796

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Alkalinity	100	96.7		mg/L		97	90 - 110		

Lab Sample ID: LCSD 380-145796/19
Matrix: Water
Analysis Batch: 145796

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
Alkalinity	100	97.8		mg/L		98	90 - 110	1	20

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QC Sample Results

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

Job ID: 380-143933-1
SDG: Quarterly

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LLCS 380-145796/5

Matrix: Water

Analysis Batch: 145796

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	20.0	19.1		mg/L		95	90 - 110

Lab Sample ID: MRL 380-145796/3

Matrix: Water

Analysis Batch: 145796

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	4.00	4.29		mg/L		107	50 - 150

Lab Sample ID: 380-143652-L-1 MS

Matrix: Water

Analysis Batch: 145796

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
Alkalinity	230	F1	100	291	F1	mg/L		64	80 - 120

Lab Sample ID: 380-143652-L-1 MSD

Matrix: Water

Analysis Batch: 145796

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
Alkalinity	230	F1	100	292	F1	mg/L		65	80 - 120	0	20

Lab Sample ID: 380-143652-L-1 DU

Matrix: Water

Analysis Batch: 145796

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity	230	F1	228		mg/L		0.2	20
Bicarbonate Alkalinity as CaCO3	230		228		mg/L		0.2	20
Carbonate Alkalinity as CaCO3	<4.0		<4.0		mg/L		NC	20

Method: SM 2510B - Conductivity, Specific Conductance

Lab Sample ID: MB 380-145802/3

Matrix: Water

Analysis Batch: 145802

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	<2.0		2.0	umhos/cm			04/04/25 17:05	1

Lab Sample ID: LCS 380-145802/5

Matrix: Water

Analysis Batch: 145802

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Specific Conductance	1000	1000		umhos/cm		100	90 - 110

QC Sample Results

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

Job ID: 380-143933-1
SDG: Quarterly

Method: SM 2510B - Conductivity, Specific Conductance (Continued)

Lab Sample ID: LCSD 380-145802/17
Matrix: Water
Analysis Batch: 145802

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
Specific Conductance	1000	998		umhos/cm		100	90 - 110	1	10

Lab Sample ID: MRL 380-145802/4
Matrix: Water
Analysis Batch: 145802

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Specific Conductance	2.00	1.90	J	umhos/cm		95	50 - 150		

Lab Sample ID: 380-143652-L-1 DU
Matrix: Water
Analysis Batch: 145802

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Specific Conductance	890		887		umhos/cm				0	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 380-145847/1
Matrix: Water
Analysis Batch: 145847

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	mg/L			04/07/25 13:37	1

Lab Sample ID: HLCS 380-145847/5
Matrix: Water
Analysis Batch: 145847

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

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids	700	704		mg/L		101	80 - 114		

Lab Sample ID: LCS 380-145847/4
Matrix: Water
Analysis Batch: 145847

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids	175	170		mg/L		97	80 - 114		

Lab Sample ID: MRL 380-145847/2
Matrix: Water
Analysis Batch: 145847

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids	10.0	9.00	J	mg/L		90	50 - 150		

QC Sample Results

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

Job ID: 380-143933-1
SDG: Quarterly

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: MRL 380-145847/3

Matrix: Water

Analysis Batch: 145847

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	10.0	8.00	J	mg/L		80	50 - 150

Lab Sample ID: 380-143898-F-1 DU

Matrix: Water

Analysis Batch: 145847

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	550		566		mg/L		3	10

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 380-145804/44

Matrix: Water

Analysis Batch: 145804

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.050		0.050	mg/L			04/04/25 20:48	1

Lab Sample ID: MB 380-145804/78

Matrix: Water

Analysis Batch: 145804

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.050		0.050	mg/L			04/04/25 23:17	1

Lab Sample ID: LCS 380-145804/46

Matrix: Water

Analysis Batch: 145804

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	1.00	1.05		mg/L		105	90 - 110

Lab Sample ID: LCS 380-145804/80

Matrix: Water

Analysis Batch: 145804

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	1.00	1.03		mg/L		103	90 - 110

Lab Sample ID: LCSD 380-145804/47

Matrix: Water

Analysis Batch: 145804

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
Fluoride	1.00	1.05		mg/L		105	90 - 110	1	10

QC Sample Results

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

Job ID: 380-143933-1
SDG: Quarterly

Method: SM 4500 F C - Fluoride (Continued)

Lab Sample ID: LCSD 380-145804/81
Matrix: Water
Analysis Batch: 145804

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
Fluoride	1.00	1.03		mg/L		103	90 - 110	0	10

Lab Sample ID: MRL 380-145804/45
Matrix: Water
Analysis Batch: 145804

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.0500	0.0502		mg/L		100	50 - 150		

Lab Sample ID: MRL 380-145804/79
Matrix: Water
Analysis Batch: 145804

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.0500	0.0507		mg/L		101	50 - 150		

Lab Sample ID: 380-143457-A-1 MS
Matrix: Water
Analysis Batch: 145804

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.34		1.00	1.37		mg/L		104	80 - 120		

Lab Sample ID: 380-143457-A-1 MSD
Matrix: Water
Analysis Batch: 145804

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
Fluoride	0.34		1.00	1.37		mg/L		104	80 - 120	0	20

Lab Sample ID: 380-143457-A-2 MS
Matrix: Water
Analysis Batch: 145804

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.33		1.00	1.36		mg/L		103	80 - 120		

Lab Sample ID: 380-143457-A-2 MSD
Matrix: Water
Analysis Batch: 145804

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
Fluoride	0.33		1.00	1.36		mg/L		102	80 - 120	1	20

QC Sample Results

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

Job ID: 380-143933-1
SDG: Quarterly

Method: SM 4500 H+ B - pH

Lab Sample ID: MB 380-145799/5
Matrix: Water
Analysis Batch: 145799

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.8			SU			04/04/25 17:05	1

Lab Sample ID: LCS 380-145799/6
Matrix: Water
Analysis Batch: 145799

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
pH	6.00	6.0		SU		100	98 - 102

Lab Sample ID: LCSD 380-145799/18
Matrix: Water
Analysis Batch: 145799

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
pH	6.00	6.0		SU		100	98 - 102	0	2

Lab Sample ID: 380-143652-L-1 DU
Matrix: Water
Analysis Batch: 145799

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	8.0		8.0		SU		0.8	2

Method: SM 4500 S2 D - Sulfide, Total

Lab Sample ID: MB 380-145902/3
Matrix: Water
Analysis Batch: 145902

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<0.050		0.050	mg/L			04/07/25 17:38	1

Lab Sample ID: LCS 380-145902/5
Matrix: Water
Analysis Batch: 145902

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	0.250	0.226		mg/L		90	90 - 110

Lab Sample ID: LCSD 380-145902/6
Matrix: Water
Analysis Batch: 145902

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
Sulfide	0.250	0.248		mg/L		99	90 - 110	9	20

QC Sample Results

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

Job ID: 380-143933-1
SDG: Quarterly

Method: SM 4500 S2 D - Sulfide, Total (Continued)

Lab Sample ID: MRL 380-145902/16
Matrix: Water
Analysis Batch: 145902

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	0.0500	0.0450	J	mg/L		90	50 - 150

Lab Sample ID: MRL 380-145902/4
Matrix: Water
Analysis Batch: 145902

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	0.0500	0.0475	J	mg/L		95	50 - 150

Lab Sample ID: 380-143927-J-2 MS
Matrix: Water
Analysis Batch: 145902

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
Sulfide	<0.050	F1	0.250	<0.050	F1	mg/L		9	80 - 120

Lab Sample ID: 380-143927-J-2 MSD
Matrix: Water
Analysis Batch: 145902

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
Sulfide	<0.050	F1	0.250	<0.050	F1	mg/L		9	80 - 120	2	20

QC Association Summary

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

Job ID: 380-143933-1
SDG: Quarterly

GC/MS VOA

Analysis Batch: 145641

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-143933-1	AIEA WELLS PUMPS 1&2 (260) (331-203-TP400) P2	Total/NA	Drinking Water	524.2	
380-143933-2	Ka'amilo Wells	Total/NA	Water	524.2	
380-143933-2	Ka'amilo Wells	Total/NA	Water	524.2	
380-143933-4	TB: Ka'amilo Wells	Total/NA	Water	524.2	
MB 380-145641/8	Method Blank	Total/NA	Water	524.2	
LCS 380-145641/5	Lab Control Sample	Total/NA	Water	524.2	
LCSD 380-145641/6	Lab Control Sample Dup	Total/NA	Water	524.2	
MRL 380-145641/3	Lab Control Sample	Total/NA	Water	524.2	
MRL 380-145641/4	Lab Control Sample	Total/NA	Water	524.2	

Analysis Batch: 145654

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-143933-1	AIEA WELLS PUMPS 1&2 (260) (331-203-TP400) P2	Total/NA	Drinking Water	524.2	
380-143933-2	Ka'amilo Wells	Total/NA	Water	524.2	
380-143933-3	TB: AIEA WELLS PUMPS 1&2 (260) (331-203-TP400)	Total/NA	Water	524.2	
380-143933-4	TB: Ka'amilo Wells	Total/NA	Water	524.2	
MB 380-145654/11	Method Blank	Total/NA	Water	524.2	
LCS 380-145654/8	Lab Control Sample	Total/NA	Water	524.2	
LCSD 380-145654/9	Lab Control Sample Dup	Total/NA	Water	524.2	
MRL 380-145654/10	Lab Control Sample	Total/NA	Water	524.2	

Analysis Batch: 145753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-143933-1	AIEA WELLS PUMPS 1&2 (260) (331-203-TP400) P2	Total/NA	Drinking Water	524.2	
380-143933-2	Ka'amilo Wells	Total/NA	Water	524.2	
380-143933-4	TB: Ka'amilo Wells	Total/NA	Water	524.2	

GC/MS Semi VOA

Prep Batch: 145789

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-143933-1	AIEA WELLS PUMPS 1&2 (260) (331-203-TP400) P2	Total/NA	Drinking Water	525.2	
380-143933-2	Ka'amilo Wells	Total/NA	Water	525.2	
MB 380-145789/21-A	Method Blank	Total/NA	Water	525.2	
LCS 380-145789/23-A	Lab Control Sample	Total/NA	Water	525.2	
MRL 380-145789/22-A	Lab Control Sample	Total/NA	Water	525.2	
380-143838-R-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	525.2	
380-143838-S-1-A MS	Matrix Spike	Total/NA	Water	525.2	

Analysis Batch: 145979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-143933-1	AIEA WELLS PUMPS 1&2 (260) (331-203-TP400) P2	Total/NA	Drinking Water	525.2	145789
380-143933-2	Ka'amilo Wells	Total/NA	Water	525.2	145789
MB 380-145789/21-A	Method Blank	Total/NA	Water	525.2	145789
LCS 380-145789/23-A	Lab Control Sample	Total/NA	Water	525.2	145789
MRL 380-145789/22-A	Lab Control Sample	Total/NA	Water	525.2	145789
380-143838-R-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	525.2	145789
380-143838-S-1-A MS	Matrix Spike	Total/NA	Water	525.2	145789

QC Association Summary

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

Job ID: 380-143933-1
SDG: Quarterly

GC/MS Semi VOA

Prep Batch: 555182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-143933-1	AIEA WELLS PUMPS 1&2 (260) (331-203-TP400) P2	Total/NA	Drinking Water	625.1	
380-143933-2	Ka'amilo Wells	Total/NA	Water	625.1	
MB 570-555182/1-A	Method Blank	Total/NA	Water	625.1	
LCS 570-555182/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 570-555182/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	

Analysis Batch: 557573

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-143933-1	AIEA WELLS PUMPS 1&2 (260) (331-203-TP400) P2	Total/NA	Drinking Water	625.1 SIM	555182
380-143933-2	Ka'amilo Wells	Total/NA	Water	625.1 SIM	555182
MB 570-555182/1-A	Method Blank	Total/NA	Water	625.1 SIM	555182

Analysis Batch: 558249

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 570-555182/2-A	Lab Control Sample	Total/NA	Water	625.1 SIM	555182
LCSD 570-555182/3-A	Lab Control Sample Dup	Total/NA	Water	625.1 SIM	555182

Analysis Batch: 559286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-143933-1	AIEA WELLS PUMPS 1&2 (260) (331-203-TP400) P2	Total/NA	Drinking Water	625.1	555182
380-143933-2	Ka'amilo Wells	Total/NA	Water	625.1	555182
MB 570-555182/1-A	Method Blank	Total/NA	Water	625.1	555182

GC VOA

Analysis Batch: 558265

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-143933-1	AIEA WELLS PUMPS 1&2 (260) (331-203-TP400) P2	Total/NA	Drinking Water	8015B GRO LL	
380-143933-2	Ka'amilo Wells	Total/NA	Water	8015B GRO LL	
380-143933-3	TB: AIEA WELLS PUMPS 1&2 (260) (331-203-TP400)	Total/NA	Water	8015B GRO LL	
380-143933-4	TB: Ka'amilo Wells	Total/NA	Water	8015B GRO LL	
MB 570-558265/6	Method Blank	Total/NA	Water	8015B GRO LL	
LCS 570-558265/4	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-558265/5	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	
MRL 570-558265/3	Lab Control Sample	Total/NA	Water	8015B GRO LL	
380-144829-C-3 MS	Matrix Spike	Total/NA	Water	8015B GRO LL	
380-144829-C-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8015B GRO LL	

GC Semi VOA

Prep Batch: 146042

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-143933-1	AIEA WELLS PUMPS 1&2 (260) (331-203-TP400) P2	Total/NA	Drinking Water	505	
380-143933-2	Ka'amilo Wells	Total/NA	Water	505	
MB 380-146042/32-A	Method Blank	Total/NA	Water	505	
LCS 380-146042/16-A	Lab Control Sample	Total/NA	Water	505	
LCS 380-146042/24-A	Lab Control Sample	Total/NA	Water	505	
LCS 380-146042/57-A	Lab Control Sample	Total/NA	Water	505	
LCS 380-146042/59-A	Lab Control Sample	Total/NA	Water	505	
LCS 380-146042/60-A	Lab Control Sample	Total/NA	Water	505	
LCS 380-146042/8-A	Lab Control Sample	Total/NA	Water	505	
LCSD 380-146042/58-A	Lab Control Sample Dup	Total/NA	Water	505	

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QC Association Summary

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

Job ID: 380-143933-1
SDG: Quarterly

GC Semi VOA (Continued)

Prep Batch: 146042 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MRL 380-146042/30-A	Lab Control Sample	Total/NA	Water	505	
MRL 380-146042/31-A	Lab Control Sample	Total/NA	Water	505	
380-143950-BO-1-A MS	Matrix Spike	Total/NA	Water	505	
380-143950-BP-1-A MS	Matrix Spike	Total/NA	Water	505	
380-143957-CP-1-A MS	Matrix Spike	Total/NA	Water	505	
380-143957-CQ-1-A MS	Matrix Spike	Total/NA	Water	505	

Analysis Batch: 146186

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-143933-1	AIEA WELLS PUMPS 1&2 (260) (331-203-TP400) P2	Total/NA	Drinking Water	505	146042
380-143933-2	Ka'amilo Wells	Total/NA	Water	505	146042
MB 380-146042/32-A	Method Blank	Total/NA	Water	505	146042
LCS 380-146042/16-A	Lab Control Sample	Total/NA	Water	505	146042
LCS 380-146042/24-A	Lab Control Sample	Total/NA	Water	505	146042
LCS 380-146042/57-A	Lab Control Sample	Total/NA	Water	505	146042
LCS 380-146042/59-A	Lab Control Sample	Total/NA	Water	505	146042
LCS 380-146042/60-A	Lab Control Sample	Total/NA	Water	505	146042
LCS 380-146042/8-A	Lab Control Sample	Total/NA	Water	505	146042
LCSD 380-146042/58-A	Lab Control Sample Dup	Total/NA	Water	505	146042
MRL 380-146042/30-A	Lab Control Sample	Total/NA	Water	505	146042
MRL 380-146042/31-A	Lab Control Sample	Total/NA	Water	505	146042
380-143950-BO-1-A MS	Matrix Spike	Total/NA	Water	505	146042
380-143950-BP-1-A MS	Matrix Spike	Total/NA	Water	505	146042
380-143957-CP-1-A MS	Matrix Spike	Total/NA	Water	505	146042
380-143957-CQ-1-A MS	Matrix Spike	Total/NA	Water	505	146042

Prep Batch: 146213

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-143933-1	AIEA WELLS PUMPS 1&2 (260) (331-203-TP400) P2	Total/NA	Drinking Water	504.1	
380-143933-2	Ka'amilo Wells	Total/NA	Water	504.1	
380-143933-3	TB: AIEA WELLS PUMPS 1&2 (260) (331-203-TP400)	Total/NA	Water	504.1	
380-143933-4	TB: Ka'amilo Wells	Total/NA	Water	504.1	
MBL 380-146213/4-A	Method Blank	Total/NA	Water	504.1	
LCS 380-146213/29-A	Lab Control Sample	Total/NA	Water	504.1	
MRL 380-146213/2-A	Lab Control Sample	Total/NA	Water	504.1	
MRL 380-146213/3-A	Lab Control Sample	Total/NA	Water	504.1	
380-144238-DR-1-A MS	Matrix Spike	Total/NA	Water	504.1	
380-144238-DS-1-A DU	Duplicate	Total/NA	Water	504.1	

Analysis Batch: 146555

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-143933-1	AIEA WELLS PUMPS 1&2 (260) (331-203-TP400) P2	Total/NA	Drinking Water	504.1	146213
380-143933-2	Ka'amilo Wells	Total/NA	Water	504.1	146213
380-143933-3	TB: AIEA WELLS PUMPS 1&2 (260) (331-203-TP400)	Total/NA	Water	504.1	146213
380-143933-4	TB: Ka'amilo Wells	Total/NA	Water	504.1	146213
MBL 380-146213/4-A	Method Blank	Total/NA	Water	504.1	146213
LCS 380-146213/29-A	Lab Control Sample	Total/NA	Water	504.1	146213
MRL 380-146213/2-A	Lab Control Sample	Total/NA	Water	504.1	146213
MRL 380-146213/3-A	Lab Control Sample	Total/NA	Water	504.1	146213
380-144238-DR-1-A MS	Matrix Spike	Total/NA	Water	504.1	146213
380-144238-DS-1-A DU	Duplicate	Total/NA	Water	504.1	146213

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QC Association Summary

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

Job ID: 380-143933-1
SDG: Quarterly

GC Semi VOA

Prep Batch: 554296

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-143933-1	AIEA WELLS PUMPS 1&2 (260) (331-203-TP400) P2	Total/NA	Drinking Water	3510C	
380-143933-2	Ka'amilo Wells	Total/NA	Water	3510C	
MB 570-554296/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-554296/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-554296/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-554296/4-A	Lab Control Sample	Total/NA	Water	3510C	
380-143376-B-3-B MS	Matrix Spike	Total/NA	Water	3510C	
380-143376-B-3-C MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

Analysis Batch: 557182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-143933-1	AIEA WELLS PUMPS 1&2 (260) (331-203-TP400) P2	Total/NA	Drinking Water	8015B	
380-143933-2	Ka'amilo Wells	Total/NA	Water	8015B	
MB 570-557182/3	Method Blank	Total/NA	Water	8015B	
LCS 570-557182/4	Lab Control Sample	Total/NA	Water	8015B	
LCSD 570-557182/5	Lab Control Sample Dup	Total/NA	Water	8015B	
MRL 570-557182/6	Lab Control Sample	Total/NA	Water	8015B	
380-143415-AC-1 MS	Matrix Spike	Total/NA	Water	8015B	
380-143415-AC-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8015B	

Analysis Batch: 557672

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-143933-1	AIEA WELLS PUMPS 1&2 (260) (331-203-TP400) P2	Total/NA	Drinking Water	8015B	554296
380-143933-2	Ka'amilo Wells	Total/NA	Water	8015B	554296
MB 570-554296/1-A	Method Blank	Total/NA	Water	8015B	554296
LCS 570-554296/2-A	Lab Control Sample	Total/NA	Water	8015B	554296
LCSD 570-554296/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	554296
MRL 570-554296/4-A	Lab Control Sample	Total/NA	Water	8015B	554296
380-143376-B-3-B MS	Matrix Spike	Total/NA	Water	8015B	554296
380-143376-B-3-C MSD	Matrix Spike Duplicate	Total/NA	Water	8015B	554296

HPLC/IC

Analysis Batch: 145579

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-143933-1	AIEA WELLS PUMPS 1&2 (260) (331-203-TP400) P2	Total/NA	Drinking Water	300.0	
380-143933-2	Ka'amilo Wells	Total/NA	Water	300.0	
MB 380-145579/4	Method Blank	Total/NA	Water	300.0	
LCS 380-145579/7	Lab Control Sample	Total/NA	Water	300.0	
LCSD 380-145579/8	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 380-145579/5	Lab Control Sample	Total/NA	Water	300.0	
MRL 380-145579/6	Lab Control Sample	Total/NA	Water	300.0	
380-143926-E-1 MS	Matrix Spike	Total/NA	Water	300.0	
380-143926-E-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Analysis Batch: 145580

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-143933-1	AIEA WELLS PUMPS 1&2 (260) (331-203-TP400) P2	Total/NA	Drinking Water	300.0	
380-143933-2	Ka'amilo Wells	Total/NA	Water	300.0	
MB 380-145580/4	Method Blank	Total/NA	Water	300.0	
LCS 380-145580/7	Lab Control Sample	Total/NA	Water	300.0	

Eurofins Eaton Analytical Pomona

QC Association Summary

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

Job ID: 380-143933-1
SDG: Quarterly

HPLC/IC (Continued)

Analysis Batch: 145580 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 380-145580/8	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 380-145580/5	Lab Control Sample	Total/NA	Water	300.0	
MRL 380-145580/6	Lab Control Sample	Total/NA	Water	300.0	
380-143926-E-1 MS	Matrix Spike	Total/NA	Water	300.0	
380-143926-E-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Analysis Batch: 146132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-143933-1	AIEA WELLS PUMPS 1&2 (260) (331-203-TP400) P2	Total/NA	Drinking Water	300.0	
380-143933-2	Ka'amilo Wells	Total/NA	Water	300.0	
MB 380-146132/6	Method Blank	Total/NA	Water	300.0	
LCS 380-146132/7	Lab Control Sample	Total/NA	Water	300.0	
LCSD 380-146132/8	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 380-146132/5	Lab Control Sample	Total/NA	Water	300.0	
380-143852-A-2 MS	Matrix Spike	Total/NA	Water	300.0	
380-143852-A-2 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Metals

Analysis Batch: 145860

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-143933-1	AIEA WELLS PUMPS 1&2 (260) (331-203-TP400) P2	Total/NA	Drinking Water	200.7 Rev 4.4	
380-143933-2	Ka'amilo Wells	Total/NA	Water	200.7 Rev 4.4	
MBL 380-145860/93	Method Blank	Total/NA	Water	200.7 Rev 4.4	
LCS 380-145860/96	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	
LCSD 380-145860/97	Lab Control Sample Dup	Total/NA	Water	200.7 Rev 4.4	
LLCS 380-145860/94	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	
LLCS 380-145860/95	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	
380-143907-B-1 MS	Matrix Spike	Total/NA	Water	200.7 Rev 4.4	
380-143907-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	200.7 Rev 4.4	

Analysis Batch: 145977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-143933-1	AIEA WELLS PUMPS 1&2 (260) (331-203-TP400) P2	Total/NA	Drinking Water	200.8	
380-143933-2	Ka'amilo Wells	Total/NA	Water	200.8	
MBL 380-145977/32	Method Blank	Total/NA	Water	200.8	
LCS 380-145977/34	Lab Control Sample	Total/NA	Water	200.8	
LCSD 380-145977/37	Lab Control Sample Dup	Total/NA	Water	200.8	
LLCS 380-145977/33	Lab Control Sample	Total/NA	Water	200.8	
380-143907-B-1 MS	Matrix Spike	Total/NA	Water	200.8	
380-143907-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	200.8	

Analysis Batch: 145978

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-143933-1	AIEA WELLS PUMPS 1&2 (260) (331-203-TP400) P2	Total/NA	Drinking Water	200.8	
380-143933-2	Ka'amilo Wells	Total/NA	Water	200.8	
MBL 380-145978/32	Method Blank	Total/NA	Water	200.8	
LCS 380-145978/34	Lab Control Sample	Total/NA	Water	200.8	
LCSD 380-145978/37	Lab Control Sample Dup	Total/NA	Water	200.8	
LLCS 380-145978/33	Lab Control Sample	Total/NA	Water	200.8	
380-143907-B-1 MS	Matrix Spike	Total/NA	Water	200.8	

Eurofins Eaton Analytical Pomona

QC Association Summary

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

Job ID: 380-143933-1
SDG: Quarterly

Metals (Continued)

Analysis Batch: 145978 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-143907-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	200.8	

General Chemistry

Analysis Batch: 145796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-143933-1	AIEA WELLS PUMPS 1&2 (260) (331-203-TP400) P2	Total/NA	Drinking Water	SM 2320B	
380-143933-2	Ka'amilo Wells	Total/NA	Water	SM 2320B	
MB 380-145796/1	Method Blank	Total/NA	Water	SM 2320B	
LCS 380-145796/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 380-145796/19	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
LLCS 380-145796/5	Lab Control Sample	Total/NA	Water	SM 2320B	
MRL 380-145796/3	Lab Control Sample	Total/NA	Water	SM 2320B	
380-143652-L-1 MS	Matrix Spike	Total/NA	Water	SM 2320B	
380-143652-L-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 2320B	
380-143652-L-1 DU	Duplicate	Total/NA	Water	SM 2320B	

Analysis Batch: 145799

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-143933-1	AIEA WELLS PUMPS 1&2 (260) (331-203-TP400) P2	Total/NA	Drinking Water	SM 4500 H+ B	
380-143933-2	Ka'amilo Wells	Total/NA	Water	SM 4500 H+ B	
MB 380-145799/5	Method Blank	Total/NA	Water	SM 4500 H+ B	
LCS 380-145799/6	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
LCSD 380-145799/18	Lab Control Sample Dup	Total/NA	Water	SM 4500 H+ B	
380-143652-L-1 DU	Duplicate	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 145802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-143933-1	AIEA WELLS PUMPS 1&2 (260) (331-203-TP400) P2	Total/NA	Drinking Water	SM 2510B	
380-143933-2	Ka'amilo Wells	Total/NA	Water	SM 2510B	
MB 380-145802/3	Method Blank	Total/NA	Water	SM 2510B	
LCS 380-145802/5	Lab Control Sample	Total/NA	Water	SM 2510B	
LCSD 380-145802/17	Lab Control Sample Dup	Total/NA	Water	SM 2510B	
MRL 380-145802/4	Lab Control Sample	Total/NA	Water	SM 2510B	
380-143652-L-1 DU	Duplicate	Total/NA	Water	SM 2510B	

Analysis Batch: 145804

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-143933-1	AIEA WELLS PUMPS 1&2 (260) (331-203-TP400) P2	Total/NA	Drinking Water	SM 4500 F C	
380-143933-2	Ka'amilo Wells	Total/NA	Water	SM 4500 F C	
MB 380-145804/44	Method Blank	Total/NA	Water	SM 4500 F C	
MB 380-145804/78	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 380-145804/46	Lab Control Sample	Total/NA	Water	SM 4500 F C	
LCS 380-145804/80	Lab Control Sample	Total/NA	Water	SM 4500 F C	
LCSD 380-145804/47	Lab Control Sample Dup	Total/NA	Water	SM 4500 F C	
LCSD 380-145804/81	Lab Control Sample Dup	Total/NA	Water	SM 4500 F C	
MRL 380-145804/45	Lab Control Sample	Total/NA	Water	SM 4500 F C	
MRL 380-145804/79	Lab Control Sample	Total/NA	Water	SM 4500 F C	
380-143457-A-1 MS	Matrix Spike	Total/NA	Water	SM 4500 F C	
380-143457-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 F C	
380-143457-A-2 MS	Matrix Spike	Total/NA	Water	SM 4500 F C	

Eurofins Eaton Analytical Pomona

QC Association Summary

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

Job ID: 380-143933-1
SDG: Quarterly

General Chemistry (Continued)

Analysis Batch: 145804 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-143457-A-2 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 F C	

Analysis Batch: 145847

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-143933-1	AIEA WELLS PUMPS 1&2 (260) (331-203-TP400) P2	Total/NA	Drinking Water	SM 2540C	
380-143933-2	Ka'amilo Wells	Total/NA	Water	SM 2540C	
MB 380-145847/1	Method Blank	Total/NA	Water	SM 2540C	
HLCS 380-145847/5	Lab Control Sample	Total/NA	Water	SM 2540C	
LCS 380-145847/4	Lab Control Sample	Total/NA	Water	SM 2540C	
MRL 380-145847/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MRL 380-145847/3	Lab Control Sample	Total/NA	Water	SM 2540C	
380-143898-F-1 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 145902

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-143933-1	AIEA WELLS PUMPS 1&2 (260) (331-203-TP400) P2	Total/NA	Drinking Water	SM 4500 S2 D	
380-143933-2	Ka'amilo Wells	Total/NA	Water	SM 4500 S2 D	
MB 380-145902/3	Method Blank	Total/NA	Water	SM 4500 S2 D	
LCS 380-145902/5	Lab Control Sample	Total/NA	Water	SM 4500 S2 D	
LCSD 380-145902/6	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 D	
MRL 380-145902/16	Lab Control Sample	Total/NA	Water	SM 4500 S2 D	
MRL 380-145902/4	Lab Control Sample	Total/NA	Water	SM 4500 S2 D	
380-143927-J-2 MS	Matrix Spike	Total/NA	Water	SM 4500 S2 D	
380-143927-J-2 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 S2 D	

Lab Chronicle

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

Job ID: 380-143933-1
SDG: Quarterly

Client Sample ID: AIEA WELLS PUMPS 1&2 (260)

Lab Sample ID: 380-143933-1

(331-203-TP400) P2

Date Collected: 04/03/25 09:36

Matrix: Drinking Water

Date Received: 04/04/25 10:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	524.2		1	145654	WE3W	EA POM	04/06/25 02:32
Total/NA	Analysis	524.2		1	145641	Q6AD	EA POM	04/05/25 15:20
Total/NA	Analysis	524.2		1	145753	KP	EA POM	04/05/25 15:20
Total/NA	Prep	525.2			145789	KRD3	EA POM	04/07/25 08:00
Total/NA	Analysis	525.2		1	145979	Q8LA	EA POM	04/08/25 18:56
Total/NA	Prep	625.1			555182	UD4J	EET CAL 4	04/08/25 13:10
Total/NA	Analysis	625.1		1	559286	J7WE	EET CAL 4	04/17/25 21:30
Total/NA	Prep	625.1			555182	UD4J	EET CAL 4	04/08/25 13:10
Total/NA	Analysis	625.1 SIM		1	557573	PQS1	EET CAL 4	04/14/25 16:42
Total/NA	Analysis	8015B GRO LL		1	558265	BH4T	EET CAL 4	04/15/25 19:20
Total/NA	Prep	504.1			146213	LZ8Q	EA POM	04/09/25 11:50 - 04/09/25 12:45 ¹
Total/NA	Analysis	504.1		1	146555	LZ8Q	EA POM	04/09/25 17:41
Total/NA	Prep	505			146042	DR5R	EA POM	04/08/25 13:30 - 04/08/25 14:56 ¹
Total/NA	Analysis	505		1	146186	DR5R	EA POM	04/09/25 06:12
Total/NA	Prep	3510C			554296	H6FE	EET CAL 4	04/06/25 17:06
Total/NA	Analysis	8015B		1	557672	NR	EET CAL 4	04/14/25 21:17
Total/NA	Analysis	8015B		1	557182	ZE2W	EET CAL 4	04/12/25 18:59
Total/NA	Analysis	300.0		1	146132	UNJR	EA POM	04/09/25 10:20
Total/NA	Analysis	300.0		5	145579	BG6L	EA POM	04/04/25 19:44
Total/NA	Analysis	300.0		5	145580	BG6L	EA POM	04/04/25 19:44
Total/NA	Analysis	200.7 Rev 4.4		1	145860	MF7S	EA POM	04/07/25 13:17
Total/NA	Analysis	200.8		1	145977	T8BB	EA POM	04/07/25 15:05
Total/NA	Analysis	200.8		1	145978	T8BB	EA POM	04/07/25 15:05
Total/NA	Analysis	SM 2320B		1	145796	PK4Q	EA POM	04/04/25 21:15
Total/NA	Analysis	SM 2510B		1	145802	PK4Q	EA POM	04/04/25 21:15
Total/NA	Analysis	SM 2540C		1	145847	UJRF	EA POM	04/07/25 13:37
Total/NA	Analysis	SM 4500 F C		1	145804	PK4Q	EA POM	04/04/25 22:25
Total/NA	Analysis	SM 4500 H+ B		1	145799	PK4Q	EA POM	04/04/25 21:15
Total/NA	Analysis	SM 4500 S2 D		1	145902	MH2L	EA POM	04/07/25 17:38

Client Sample ID: Ka'amilo Wells

Lab Sample ID: 380-143933-2

Date Collected: 04/03/25 10:17

Matrix: Water

Date Received: 04/04/25 10:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	524.2		1	145654	WE3W	EA POM	04/06/25 02:54
Total/NA	Analysis	524.2		1	145641	Q6AD	EA POM	04/05/25 15:42
Total/NA	Analysis	524.2		1	145753	KP	EA POM	04/05/25 15:42
Total/NA	Analysis	524.2		1	145641	Q6AD	EA POM	04/05/25 16:04
Total/NA	Prep	525.2			145789	KRD3	EA POM	04/07/25 08:00
Total/NA	Analysis	525.2		1	145979	Q8LA	EA POM	04/08/25 19:16

Eurofins Eaton Analytical Pomona

Lab Chronicle

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

Job ID: 380-143933-1
SDG: Quarterly

Client Sample ID: Ka'amilo Wells

Lab Sample ID: 380-143933-2

Date Collected: 04/03/25 10:17

Matrix: Water

Date Received: 04/04/25 10:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	625.1			555182	UD4J	EET CAL 4	04/08/25 13:10
Total/NA	Analysis	625.1		1	559286	J7WE	EET CAL 4	04/17/25 21:53
Total/NA	Prep	625.1			555182	UD4J	EET CAL 4	04/08/25 13:10
Total/NA	Analysis	625.1 SIM		1	557573	PQS1	EET CAL 4	04/14/25 17:04
Total/NA	Analysis	8015B GRO LL		1	558265	BH4T	EET CAL 4	04/15/25 19:45
Total/NA	Prep	504.1			146213	LZ8Q	EA POM	04/09/25 11:50 - 04/09/25 12:45 ¹
Total/NA	Analysis	504.1		1	146555	LZ8Q	EA POM	04/09/25 18:02
Total/NA	Prep	505			146042	DR5R	EA POM	04/08/25 13:30 - 04/08/25 14:56 ¹
Total/NA	Analysis	505		1	146186	DR5R	EA POM	04/09/25 06:34
Total/NA	Prep	3510C			554296	H6FE	EET CAL 4	04/06/25 17:06
Total/NA	Analysis	8015B		1	557672	NR	EET CAL 4	04/14/25 21:39
Total/NA	Analysis	8015B		1	557182	ZE2W	EET CAL 4	04/12/25 19:20
Total/NA	Analysis	300.0		1	146132	UNJR	EA POM	04/09/25 10:47
Total/NA	Analysis	300.0		5	145579	BG6L	EA POM	04/04/25 19:57
Total/NA	Analysis	300.0		5	145580	BG6L	EA POM	04/04/25 19:57
Total/NA	Analysis	200.7 Rev 4.4		1	145860	MF7S	EA POM	04/07/25 13:18
Total/NA	Analysis	200.8		1	145977	T8BB	EA POM	04/07/25 15:11
Total/NA	Analysis	200.8		1	145978	T8BB	EA POM	04/07/25 15:11
Total/NA	Analysis	SM 2320B		1	145796	PK4Q	EA POM	04/04/25 21:06
Total/NA	Analysis	SM 2510B		1	145802	PK4Q	EA POM	04/04/25 21:06
Total/NA	Analysis	SM 2540C		1	145847	UJRF	EA POM	04/07/25 13:37
Total/NA	Analysis	SM 4500 F C		1	145804	PK4Q	EA POM	04/05/25 00:20
Total/NA	Analysis	SM 4500 H+ B		1	145799	PK4Q	EA POM	04/04/25 21:06
Total/NA	Analysis	SM 4500 S2 D		1	145902	MH2L	EA POM	04/07/25 17:38

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

Lab Sample ID: 380-143933-3

Date Collected: 04/03/25 09:36

Matrix: Water

Date Received: 04/04/25 10:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	524.2		1	145654	WE3W	EA POM	04/06/25 03:17
Total/NA	Analysis	8015B GRO LL		1	558265	BH4T	EET CAL 4	04/15/25 17:17
Total/NA	Prep	504.1			146213	LZ8Q	EA POM	04/09/25 11:50 - 04/09/25 12:45 ¹
Total/NA	Analysis	504.1		1	146555	LZ8Q	EA POM	04/09/25 16:16

Client Sample ID: TB: Ka'amilo Wells

Lab Sample ID: 380-143933-4

Date Collected: 04/03/25 10:17

Matrix: Water

Date Received: 04/04/25 10:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	524.2		1	145654	WE3W	EA POM	04/06/25 03:39
Total/NA	Analysis	524.2		1	145641	Q6AD	EA POM	04/05/25 16:27

Eurofins Eaton Analytical Pomona

Lab Chronicle

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

Job ID: 380-143933-1
SDG: Quarterly

Client Sample ID: TB: Ka'amilo Wells
Date Collected: 04/03/25 10:17
Date Received: 04/04/25 10:36

Lab Sample ID: 380-143933-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	524.2		1	145753	KP	EA POM	04/05/25 16:27
Total/NA	Analysis	8015B GRO LL		1	558265	BH4T	EET CAL 4	04/15/25 17:42
Total/NA	Prep	504.1			146213	LZ8Q	EA POM	04/09/25 11:50 - 04/09/25 12:45 ¹
Total/NA	Analysis	504.1		1	146555	LZ8Q	EA POM	04/09/25 16:37

¹ This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

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

Accreditation/Certification Summary

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

Job ID: 380-143933-1
SDG: Quarterly

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	04-10-25

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
505	505	Drinking Water	Polychlorinated biphenyls, Total
505	505	Water	Polychlorinated biphenyls, Total
524.2		Drinking Water	1,3-Dichloropropene, Total
524.2		Drinking Water	2-Butanone (MEK)
524.2		Drinking Water	Acetone
524.2		Drinking Water	Bromodichloromethane
524.2		Drinking Water	Bromoethane
524.2		Drinking Water	Bromoform
524.2		Drinking Water	Chlorodibromomethane
524.2		Drinking Water	Chloroform (Trichloromethane)
524.2		Drinking Water	m,p-Xylenes
524.2		Drinking Water	o-Xylene
524.2		Drinking Water	Tertiary Butyl Alcohol (TBA)
524.2		Water	1,3-Dichloropropene, Total
524.2		Water	2-Butanone (MEK)
524.2		Water	Acetone
524.2		Water	Bromodichloromethane
524.2		Water	Bromoethane
524.2		Water	Bromoform
524.2		Water	Chlorodibromomethane
524.2		Water	Chloroform (Trichloromethane)
524.2		Water	m,p-Xylenes
524.2		Water	o-Xylene
524.2		Water	Tertiary Butyl Alcohol (TBA)
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)

Accreditation/Certification Summary

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

Job ID: 380-143933-1
SDG: Quarterly

Laboratory: Eurofins Eaton Analytical Pomona (Continued)

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

Authority	Program	Identification Number	Expiration Date
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	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
525.2	525.2	Water	1-Methylnaphthalene
525.2	525.2	Water	2,4'-DDD
525.2	525.2	Water	2,4'-DDE
525.2	525.2	Water	2,4'-DDT
525.2	525.2	Water	2,4-Dinitrotoluene
525.2	525.2	Water	2,6-Dinitrotoluene
525.2	525.2	Water	2-Methylnaphthalene
525.2	525.2	Water	4,4'-DDD
525.2	525.2	Water	4,4'-DDE
525.2	525.2	Water	4,4'-DDT
525.2	525.2	Water	Acetochlor
525.2	525.2	Water	alpha-BHC
525.2	525.2	Water	alpha-Chlordane
525.2	525.2	Water	beta-BHC
525.2	525.2	Water	Chlorobenzilate
525.2	525.2	Water	Chloroneb
525.2	525.2	Water	Chlorothalonil (Draconil, Bravo)
525.2	525.2	Water	Chlorpyrifos
525.2	525.2	Water	delta-BHC
525.2	525.2	Water	Diclorvos (DDVP)
525.2	525.2	Water	Endosulfan I (Alpha)
525.2	525.2	Water	Endosulfan II (Beta)
525.2	525.2	Water	Endosulfan sulfate
525.2	525.2	Water	Endrin aldehyde
525.2	525.2	Water	EPTC
525.2	525.2	Water	gamma-Chlordane
525.2	525.2	Water	Isophorone
525.2	525.2	Water	Malathion
525.2	525.2	Water	Parathion
525.2	525.2	Water	Pendimethalin (Penoxaline)
525.2	525.2	Water	Terbacil
525.2	525.2	Water	Terbutylazine
525.2	525.2	Water	Total Permethrin (mixed isomers)
525.2	525.2	Water	trans-Nonachlor

Eurofins Eaton Analytical Pomona

Accreditation/Certification Summary

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

Job ID: 380-143933-1
SDG: Quarterly

Laboratory: Eurofins Eaton Analytical Pomona (Continued)

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

Authority	Program	Identification Number	Expiration Date
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
SM 2320B		Drinking Water	Bicarbonate Alkalinity as CaCO3
SM 2320B		Drinking Water	Carbonate Alkalinity as CaCO3
SM 2320B		Water	Bicarbonate Alkalinity as CaCO3
SM 2320B		Water	Carbonate Alkalinity as CaCO3
SM 4500 S2 D		Drinking Water	Sulfide
SM 4500 S2 D		Water	Sulfide

Laboratory: Eurofins Calscience

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

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	7296.01	11-30-26
Arizona	State	AZ0830	11-16-25
Arkansas DEQ	State	88-01672	07-02-25
California	Los Angeles County Sanitation Districts	9257304	07-31-26
California	SCAQMD LAP	17LA0919	11-30-25
California	State	3082	07-31-25
Kansas	NELAP	E-10420	07-31-25
Nevada	State	CA00111	07-31-25
Oregon	NELAP	4175	02-02-26
USDA	US Federal Programs	525-23-159-97150	06-08-26
Utah	NELAP	CA00111	02-28-26
Washington	State	C916	10-11-25

Method Summary

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

Job ID: 380-143933-1
SDG: Quarterly

Method	Method Description	Protocol	Laboratory
524.2	Total Trihalomethanes	EPA-DW	EA POM
524.2	Volatile Organic Compounds (GC/MS SIM)	EPA-DW	EA POM
524.2	Volatile Organic Compounds (GC/MS)	EPA-DW	EA POM
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
504.1	EDB, DBCP and 1,2,3-TCP (GC)	EPA-DW2	EA POM
505	Organochlorine Pesticides/PCBs (GC)	EPA	EA POM
8015B	Diesel Range Organics (DRO) (GC) Low Level	SW846	EET CAL 4
8015B	Nonhalogenated Organic Compounds - Direct Injection (GC)	SW846	EET CAL 4
300.0	Anions, Ion Chromatography	EPA	EA POM
200.7 Rev 4.4	Metals (ICP)	EPA	EA POM
200.8	Mercury (ICP/MS)	EPA	EA POM
200.8	Metals (ICP/MS)	EPA	EA POM
SM 2320B	Alkalinity	SM	EA POM
SM 2510B	Conductivity, Specific Conductance	SM	EA POM
SM 2540C	Solids, Total Dissolved (TDS)	SM	EA POM
SM 4500 F C	Fluoride	SM	EA POM
SM 4500 H+ B	pH	SM	EA POM
SM 4500 S2 D	Sulfide, Total	SM	EA POM
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET CAL 4
5030C	Purge and Trap	SW846	EET CAL 4
504.1	Microextraction	EPA-DW	EA POM
505	Extraction, Organohalide Pesticides	EPA	EA POM
525.2	Extraction of Semivolatile Compounds	EPA	EA POM
625.1	Liquid-Liquid Extraction	40CFR136A	EET CAL 4
None	Autocomplete Prep - Metals - No Digestion required	None	EA POM

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
EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.
EPA-DW2 = "Methods For The Determination of Organic Compounds in Drinking Water - Supplement III ", EPA/600/R-95-131, August 1995
None = None
SM = "Standard Methods For The Examination Of Water And Wastewater"
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: 380-143933-1
SDG: Quarterly

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
380-143933-1	AIEA WELLS PUMPS 1&2 (260) (331-203-TP400) P2	Drinking Water	04/03/25 09:36	04/04/25 10:36
380-143933-2	Ka'amilo Wells	Water	04/03/25 10:17	04/04/25 10:36
380-143933-3	TB: AIEA WELLS PUMPS 1&2 (260) (331-203-TP400)	Water	04/03/25 09:36	04/04/25 10:36
380-143933-4	TB: Ka'amilo Wells	Water	04/03/25 10:17	04/04/25 10:36

Monrovia, CA (Suite 100)
750 Royal Oaks Drive Suite 100
Monrovia, CA 91016
Phone (626) 386-1100

Chain of Custody Record

eurofins
Environment Testing
America

Client Information		Lab PM: Arada, Rachelle		Carrier Tracking No(s):		COC No:	
Client Contact: Kirk Iwarimoto		E-Mail: Rachelle.Arada@eurofins.com		State of Origin:		Page: Page 1 of 2	
Company: City & County of Honolulu		PWSID:		Job #:			
Address: 630 South Beretania Street Chemistry Lab		Due Date Requested:		Analysis Requested			
City: Honolulu		TAT Requested (days):					
State, Zip: HI, 96843		Compliance Project: ☐ No					
Phone: 808-748-5040 (tel)		PO #: C20525101 exp 05312023					
Email: kiwamoto@hbws.org		WFO #:					
Project Name: RED-HILL		Project #: 38001111					
Site: 380-143933 COC		SSOW#:					
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Seawater, Other)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)
Aiea Wells Pumps 1&2 (260) PZ	3-Apr-2025	0936	J	Water			
Ka'amilo Wells	3-Apr-2025	1017	G	Water			
TB: Aiea Wells Pumps 1&2 (260)	3-Apr-2025	0936					
TB: Ka'amilo Wells	3-Apr-2025	1017					
Possible Hazard Identification		☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
Deliverable Requested: I, II, III, IV, Other (specify)				☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months			
Empty Kit Relinquished by		Date:		Method of Shipment: FedEx, 8802 9872 4198			
Relinquished by		Date/Time: 05/01/2025 1400		Received by: Diana Narkunatic			
Custody Seals Intact: ☐ Yes ☐ No		Date/Time:		Date/Time: 4/1/25 1036			
Custody Seal No.		Date/Time:		Date/Time:			
Cooler Temperature(s) °C and Other Remarks: (631A) 18 + 0.0 1.8 g/L frozen		Date/Time:		Date/Time:			

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Monrovia, CA (Suite 100)
750 Royal Oaks Drive Suite 100
Monrovia, CA 91016
Phone (626) 386-1100

Chain of Custody Record



Environmental Testing
America

Client Information		Lab PM: Arada, Rachelle		Carrier Tracking No(s):		COC No:	
Client Contact: Kirk Iwamoto		Phone: +1 8087485840		State of Origin:		Page 2 of 2	
Company: City & County of Honolulu		PWSID:		Analysis Requested		Job #:	
Address: 630 South Beretania Street; Chemistry Lab		Due Date Requested:		TAT Requested (days):		Preservation Codes:	
City: Honolulu		State, Zip: HI, 96843		Compliance Project: ☐ No		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:	
Phone: 808-748-5040 (tel)		PO #: C20525101 exp 05312023		WO #:		M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trazma Z - other (specify)	
Email: kiwamoto@hbws.org		Project #: 38001111		SSOW#:			
Project Name: RED-HILL		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)	
Site:		Matrix (W=water, S=solid, O=other)		Field Filled Sample (Yes or No)		Perform Method (Yes or No)	
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)	
Aiea Wells Pumps 1&2 (260)		3-Apr-2025		1017		Water	
Ka'amilo Wells						Water	
TB: Aiea Wells Pumps 1&2 (260)		3-Apr-2025		1017		Water	
TB: Ka'amilo Wells						Water	
Possible Hazard Identification		☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Return To Client ☐ Disposal By Lab ☐ Archive For ☐ Months	
Deliverable Requested: I, II, III, IV, Other (specify)		Empty Kit Relinquished by		Special Instructions/QC Requirements		Total Number of Containers	
Relinquished by: 12/1/24		Date/Time: 05/01/2025 1400		Date/Time: 4/4/25 1036		Special Instructions/Note: (631A) 2.0 + 0.0 - 2.0 Fed A - 880298224198	
Relinquished by:		Date/Time:		Date/Time:		Company: FEAP	
Relinquished by:		Date/Time:		Date/Time:		Company: FEAP	
Custody Seals Intact: ☐ Yes ☐ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: (631A) 18.0.0-18 g/L-Frozen		Ver 01/16/2019	

Monrovia, CA (Suite 100)
750 Royal Oaks Drive Suite 100
Monrovia, CA 91016
Phone (626) 386-1100

Chain of Custody Record

eurofins
Environment Testing
America

Client Information		Lab PM: Arada, Rachelle		Carrier Tracking No(s):		COC No:	
Client Contact: Kirk Iwarimoto		E-Mail: Rachelle.Arada@et.euronisus.com		State of Origin:		Page: Page 1 of 2	
Company: City & County of Honolulu		PWSID:		Job #:			
Address: 630 South Beretania Street Chemistry Lab		Due Date Requested:		Analysis Requested			
City: Honolulu		TAT Requested (days):					
State, Zip: HI, 96843		Compliance Project: ☐ No					
Phone: 808-748-5040 (tel)		PO #: C20525101 exp 05312023					
Email: kiwamoto@hbws.org		WFO #:					
Project Name: RED-HILL		Project #: 38001111					
Site: 380-143933 COC		SSOW#:					
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Seawater, Other)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)
Aiea Wells Pumps 1&2 (260) PZ	3-Apr-2025	0936	J	Water			
Ka'amilo Wells	3-Apr-2025	1017	G	Water			
TB: Aiea Wells Pumps 1&2 (260)	3-Apr-2025	0936					
TB: Ka'amilo Wells	3-Apr-2025	1017					
Possible Hazard Identification		☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
Deliverable Requested: I, II, III, IV, Other (specify)				☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months			
Empty Kit Relinquished by		Date:		Method of Shipment: FedEx 0802 9872 4198			
Relinquished by		Date/Time: 05/01/2025 1400		Received by: Diana Narkunovic Date/Time: 4/1/25 1036			
Custody Seals Intact: ☐ Yes ☐ No		Date/Time:		Received by: Company			
Custody Seal No.		Date/Time:		Received by: Company			
Cooler Temperature(s) °C and Other Remarks: (631A) 18 + 0.0 1.0 g/L frozen		Date/Time:		Received by: Company			

1-frozen
Ver 01/16/2019

Phone: 574-233-4777 Fax: 574-233-8207

Chain of Custody Record

[illegible]

[illegible]

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-143933-1

SDG Number: Quarterly

Login Number: 143933

List Source: Eurofins Eaton Analytical Pomona

List Number: 1

Creator: Gerfen, Chris

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

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-143933-1

SDG Number: Quarterly

Login Number: 143933

List Number: 2

Creator: Ablian, Samantha

List Source: Eurofins Calscience

List Creation: 04/05/25 12:21 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.3 & 1.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	