

ANALYTICAL REPORT

PREPARED FOR

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JOB DESCRIPTION

RED-HILL
Weekly: Aiea Gulch Wells Pump 1

JOB NUMBER

380-233071-1

Eurofins Pomona

Job Notes

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

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

Compliance Statement

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

Authorization



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Definitions/Glossary

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

Job ID: 380-233071-1
SDG: Weekly: Aiea Gulch Wells Pump 1

Qualifiers

GC/MS Semi VOA

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

GC/MS Semi VOA TICs

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

GC Semi VOA

Qualifier	Qualifier Description
^3+	Reporting Limit Check Standard is outside acceptance limits, high biased
F1	MS and/or MSD recovery exceeds control limits.

Glossary

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

Case Narrative

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

Job ID: 380-233071-1

Job ID: 380-233071-1

Eurofins Pomona

Job Narrative 380-233071-1

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

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

Receipt

The samples were received on 8/26/2026 10:12 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.8°C.

GC/MS Semi VOA

Method 625.1 SIM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 570-791672 and analytical batch 570-794330 recovered outside control limits for the following analytes: 1-Methylnaphthalene and 2-Methylnaphthalene.

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

Gasoline Range Organics

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

Diesel Range Organics

Method 8015B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 570-791434 and analytical batch 570-796133 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015B: The method reporting limit check (MRL) for preparation batch 570-791434 and analytical batch 570-796453 recovered outside control limits for the following analytes: C10-C28. These analytes were biased high in the MRL and were not detected in the associated samples; therefore, the data have been reported.

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

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Detection Summary

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

Job ID: 380-233071-1
SDG: Weekly: Aiea Gulch Wells Pump 1

**Client Sample ID: AIEA GULCH WELLS PUMP 1
(331-201-TP071)**

Lab Sample ID: 380-233071-1

☐ No Detections.

**Client Sample ID: TB: AIEA GULCH WELLS PUMP 1
(331-201-TP071)**

Lab Sample ID: 380-233071-2

☐ No Detections.

This Detection Summary does not include radiochemical test results.

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Client Sample Results

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

Job ID: 380-233071-1
SDG: Weekly: Aiea Gulch Wells Pump 1

**Client Sample ID: AIEA GULCH WELLS PUMP 1
(331-201-TP071)**

Lab Sample ID: 380-233071-1

Date Collected: 08/24/26 11:00

Matrix: Drinking Water

Date Received: 08/26/26 10:12

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.098		0.098	ug/L		08/27/26 08:51	08/27/26 22:06	1
2,4'-DDD	<0.098		0.098	ug/L		08/27/26 08:51	08/27/26 22:06	1
2,4'-DDE	<0.098		0.098	ug/L		08/27/26 08:51	08/27/26 22:06	1
2,4'-DDT	<0.098		0.098	ug/L		08/27/26 08:51	08/27/26 22:06	1
2,4-Dinitrotoluene	<0.098		0.098	ug/L		08/27/26 08:51	08/27/26 22:06	1
2,6-Dinitrotoluene	<0.098		0.098	ug/L		08/27/26 08:51	08/27/26 22:06	1
2-Methylnaphthalene	<0.098		0.098	ug/L		08/27/26 08:51	08/27/26 22:06	1
4,4'-DDD	<0.098		0.098	ug/L		08/27/26 08:51	08/27/26 22:06	1
4,4'-DDE	<0.098		0.098	ug/L		08/27/26 08:51	08/27/26 22:06	1
4,4'-DDT	<0.098		0.098	ug/L		08/27/26 08:51	08/27/26 22:06	1
Acenaphthene	<0.098		0.098	ug/L		08/27/26 08:51	08/27/26 22:06	1
Acenaphthylene	<0.098		0.098	ug/L		08/27/26 08:51	08/27/26 22:06	1
Acetochlor	<0.098		0.098	ug/L		08/27/26 08:51	08/27/26 22:06	1
Alachlor	<0.049		0.049	ug/L		08/27/26 08:51	08/27/26 22:06	1
alpha-BHC	<0.098		0.098	ug/L		08/27/26 08:51	08/27/26 22:06	1
alpha-Chlordane	<0.049		0.049	ug/L		08/27/26 08:51	08/27/26 22:06	1
Anthracene	<0.020		0.020	ug/L		08/27/26 08:51	08/27/26 22:06	1
Atrazine	<0.049		0.049	ug/L		08/27/26 08:51	08/27/26 22:06	1
Benz(a)anthracene	<0.049		0.049	ug/L		08/27/26 08:51	08/27/26 22:06	1
Benzo[a]pyrene	<0.020		0.020	ug/L		08/27/26 08:51	08/27/26 22:06	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		08/27/26 08:51	08/27/26 22:06	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		08/27/26 08:51	08/27/26 22:06	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		08/27/26 08:51	08/27/26 22:06	1
beta-BHC	<0.098		0.098	ug/L		08/27/26 08:51	08/27/26 22:06	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		08/27/26 08:51	08/27/26 22:06	1
Bromacil	<0.098		0.098	ug/L		08/27/26 08:51	08/27/26 22:06	1
Butachlor	<0.049		0.049	ug/L		08/27/26 08:51	08/27/26 22:06	1
Butylbenzylphthalate	<0.49		0.49	ug/L		08/27/26 08:51	08/27/26 22:06	1
Chlorobenzilate	<0.098		0.098	ug/L		08/27/26 08:51	08/27/26 22:06	1
Chloroneb	<0.098		0.098	ug/L		08/27/26 08:51	08/27/26 22:06	1
Chlorothalonil (Draconil, Bravo)	<0.098		0.098	ug/L		08/27/26 08:51	08/27/26 22:06	1
Chlorpyrifos	<0.049		0.049	ug/L		08/27/26 08:51	08/27/26 22:06	1
Chrysene	<0.020		0.020	ug/L		08/27/26 08:51	08/27/26 22:06	1
delta-BHC	<0.098		0.098	ug/L		08/27/26 08:51	08/27/26 22:06	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		08/27/26 08:51	08/27/26 22:06	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		08/27/26 08:51	08/27/26 22:06	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		08/27/26 08:51	08/27/26 22:06	1
Dieldrin	<0.0098		0.0098	ug/L		08/27/26 08:51	08/27/26 22:06	1
Diethylphthalate	<0.49		0.49	ug/L		08/27/26 08:51	08/27/26 22:06	1
Dimethylphthalate	<0.49		0.49	ug/L		08/27/26 08:51	08/27/26 22:06	1
Di-n-butyl phthalate	<0.98		0.98	ug/L		08/27/26 08:51	08/27/26 22:06	1
Di-n-octyl phthalate	<0.098		0.098	ug/L		08/27/26 08:51	08/27/26 22:06	1
Endosulfan I (Alpha)	<0.098		0.098	ug/L		08/27/26 08:51	08/27/26 22:06	1
Endosulfan II (Beta)	<0.098		0.098	ug/L		08/27/26 08:51	08/27/26 22:06	1
Endosulfan sulfate	<0.098		0.098	ug/L		08/27/26 08:51	08/27/26 22:06	1
Endrin	<0.0098		0.0098	ug/L		08/27/26 08:51	08/27/26 22:06	1
Endrin aldehyde	<0.098		0.098	ug/L		08/27/26 08:51	08/27/26 22:06	1
EPTC	<0.098		0.098	ug/L		08/27/26 08:51	08/27/26 22:06	1

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Client Sample Results

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

Job ID: 380-233071-1
SDG: Weekly: Aiea Gulch Wells Pump 1

**Client Sample ID: AIEA GULCH WELLS PUMP 1
(331-201-TP071)**

Lab Sample ID: 380-233071-1

Date Collected: 08/24/26 11:00

Matrix: Drinking Water

Date Received: 08/26/26 10:12

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.098		0.098	ug/L		08/27/26 08:51	08/27/26 22:06	1
Fluorene	<0.049		0.049	ug/L		08/27/26 08:51	08/27/26 22:06	1
gamma-Chlordane	<0.049		0.049	ug/L		08/27/26 08:51	08/27/26 22:06	1
Heptachlor	<0.0098		0.0098	ug/L		08/27/26 08:51	08/27/26 22:06	1
Heptachlor epoxide (isomer B)	<0.0098		0.0098	ug/L		08/27/26 08:51	08/27/26 22:06	1
Hexachlorobenzene	<0.049		0.049	ug/L		08/27/26 08:51	08/27/26 22:06	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		08/27/26 08:51	08/27/26 22:06	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		08/27/26 08:51	08/27/26 22:06	1
Isophorone	<0.098		0.098	ug/L		08/27/26 08:51	08/27/26 22:06	1
Lindane	<0.0098		0.0098	ug/L		08/27/26 08:51	08/27/26 22:06	1
Malathion	<0.098		0.098	ug/L		08/27/26 08:51	08/27/26 22:06	1
Methoxychlor	<0.049		0.049	ug/L		08/27/26 08:51	08/27/26 22:06	1
Metolachlor	<0.049		0.049	ug/L		08/27/26 08:51	08/27/26 22:06	1
Molinate	<0.098		0.098	ug/L		08/27/26 08:51	08/27/26 22:06	1
Naphthalene	<0.098		0.098	ug/L		08/27/26 08:51	08/27/26 22:06	1
Parathion	<0.098		0.098	ug/L		08/27/26 08:51	08/27/26 22:06	1
Pendimethalin (Penoxaline)	<0.098		0.098	ug/L		08/27/26 08:51	08/27/26 22:06	1
Phenanthrene	<0.039		0.039	ug/L		08/27/26 08:51	08/27/26 22:06	1
Propachlor	<0.049		0.049	ug/L		08/27/26 08:51	08/27/26 22:06	1
Pyrene	<0.049		0.049	ug/L		08/27/26 08:51	08/27/26 22:06	1
Simazine	<0.049		0.049	ug/L		08/27/26 08:51	08/27/26 22:06	1
Terbacil	<0.098		0.098	ug/L		08/27/26 08:51	08/27/26 22:06	1
Terbutylazine	<0.098		0.098	ug/L		08/27/26 08:51	08/27/26 22:06	1
Thiobencarb	<0.098		0.098	ug/L		08/27/26 08:51	08/27/26 22:06	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		08/27/26 08:51	08/27/26 22:06	1
trans-Nonachlor	<0.049		0.049	ug/L		08/27/26 08:51	08/27/26 22:06	1
Trifluralin	<0.098		0.098	ug/L		08/27/26 08:51	08/27/26 22:06	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	08/27/26 08:51	08/27/26 22:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	99		70 - 130	08/27/26 08:51	08/27/26 22:06	1
Perylene-d12	95		70 - 130	08/27/26 08:51	08/27/26 22:06	1
Triphenylphosphate	106		70 - 130	08/27/26 08:51	08/27/26 22:06	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	*1	0.19	ug/L		08/28/26 06:39	09/02/26 18:27	1
2-Methylnaphthalene	<0.19	*1	0.19	ug/L		08/28/26 06:39	09/02/26 18:27	1
Acenaphthene	<0.19		0.19	ug/L		08/28/26 06:39	09/02/26 18:27	1
Acenaphthylene	<0.19		0.19	ug/L		08/28/26 06:39	09/02/26 18:27	1
Anthracene	<0.19		0.19	ug/L		08/28/26 06:39	09/02/26 18:27	1
Benzo[a]anthracene	<0.19		0.19	ug/L		08/28/26 06:39	09/02/26 18:27	1
Benzo[a]pyrene	<0.19		0.19	ug/L		08/28/26 06:39	09/02/26 18:27	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		08/28/26 06:39	09/02/26 18:27	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		08/28/26 06:39	09/02/26 18:27	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		08/28/26 06:39	09/02/26 18:27	1
Chrysene	<0.19		0.19	ug/L		08/28/26 06:39	09/02/26 18:27	1

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Client Sample Results

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

Job ID: 380-233071-1
SDG: Weekly: Aiea Gulch Wells Pump 1

**Client Sample ID: AIEA GULCH WELLS PUMP 1
(331-201-TP071)**

Lab Sample ID: 380-233071-1

Date Collected: 08/24/26 11:00

Matrix: Drinking Water

Date Received: 08/26/26 10:12

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	<0.19		0.19	ug/L		08/28/26 06:39	09/02/26 18:27	1
Fluoranthene	<0.19		0.19	ug/L		08/28/26 06:39	09/02/26 18:27	1
Fluorene	<0.19		0.19	ug/L		08/28/26 06:39	09/02/26 18:27	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		08/28/26 06:39	09/02/26 18:27	1
Naphthalene	<0.19		0.19	ug/L		08/28/26 06:39	09/02/26 18:27	1
Phenanthrene	<0.19		0.19	ug/L		08/28/26 06:39	09/02/26 18:27	1
Pyrene	<0.19		0.19	ug/L		08/28/26 06:39	09/02/26 18:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	94		28 - 127	08/28/26 06:39	09/02/26 18:27	1
2-Fluorobiphenyl (Surr)	86		31 - 120	08/28/26 06:39	09/02/26 18:27	1
2-Fluorophenol (Surr)	54		17 - 120	08/28/26 06:39	09/02/26 18:27	1
Nitrobenzene-d5 (Surr)	87		27 - 120	08/28/26 06:39	09/02/26 18:27	1
Phenol-d6 (Surr)	35		10 - 120	08/28/26 06:39	09/02/26 18:27	1
p-Terphenyl-d14 (Surr)	84		45 - 120	08/28/26 06:39	09/02/26 18:27	1

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

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	08/28/26 06:39	09/09/26 20:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	72		33 - 139	08/28/26 06:39	09/09/26 20:03	1
2-Fluorobiphenyl (Surr)	74		33 - 126	08/28/26 06:39	09/09/26 20:03	1
2-Fluorophenol (Surr)	46		12 - 120	08/28/26 06:39	09/09/26 20:03	1
Nitrobenzene-d5 (Surr)	76		36 - 120	08/28/26 06:39	09/09/26 20:03	1
Phenol-d6 (Surr)	26		10 - 120	08/28/26 06:39	09/09/26 20:03	1
p-Terphenyl-d14 (Surr)	78		47 - 131	08/28/26 06:39	09/09/26 20:03	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			09/04/26 18:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		38 - 134		09/04/26 18:05	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<26		26	ug/L		08/27/26 15:57	09/06/26 05:21	1
Motor Oil Range Organics [C24-C36]	<26		26	ug/L		08/27/26 15:57	09/06/26 05:21	1
C8-C18	<26		26	ug/L		08/27/26 15:57	09/06/26 05:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	90		60 - 130	08/27/26 15:57	09/06/26 05:21	1

Eurofins Pomona

Client Sample Results

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

Job ID: 380-233071-1
SDG: Weekly: Aiea Gulch Wells Pump 1

**Client Sample ID: TB: AIEA GULCH WELLS PUMP 1
(331-201-TP071)**

Lab Sample ID: 380-233071-2

Date Collected: 08/24/26 11:00

Matrix: Water

Date Received: 08/26/26 10:12

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			09/04/26 12:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		38 - 134				09/04/26 12:44	1

Action Limit Summary

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

Job ID: 380-233071-1
SDG: Weekly: Aiea Gulch Wells Pump 1

**Client Sample ID: AIEA GULCH WELLS PUMP 1
(331-201-TP071)**

Lab Sample ID: 380-233071-1

Compliance Check

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

Analyte	Result	Qualifier	Unit	EPAMCL	RL	Method	Prep Type
				Limit			
Alachlor	<0.049		ug/L	2	0.049	525.2	Total/NA
Atrazine	<0.049		ug/L	3	0.049	525.2	Total/NA
Benzo[a]pyrene	<0.020		ug/L	0.2	0.020	525.2	Total/NA
Bis(2-ethylhexyl) phthalate	<0.59		ug/L	6	0.59	525.2	Total/NA
Di(2-ethylhexyl)adipate	<0.59		ug/L	400	0.59	525.2	Total/NA
Endrin	<0.0098		ug/L	2	0.0098	525.2	Total/NA
Heptachlor	<0.0098		ug/L	0.4	0.0098	525.2	Total/NA
Heptachlor epoxide (isomer B)	<0.0098		ug/L	0.2	0.0098	525.2	Total/NA
Hexachlorobenzene	<0.049		ug/L	1	0.049	525.2	Total/NA
Hexachlorocyclopentadiene	<0.049		ug/L	50	0.049	525.2	Total/NA
Lindane	<0.0098		ug/L	0.2	0.0098	525.2	Total/NA
Methoxychlor	<0.049		ug/L	40	0.049	525.2	Total/NA
Simazine	<0.049		ug/L	4	0.049	525.2	Total/NA
Benzo[a]pyrene	<0.19		ug/L	0.2	0.19	625.1 SIM	Total/NA

Surrogate Summary

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

Job ID: 380-233071-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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)			
380-233071-1	AIEA GULCH WELLS PUMP 1 (331)	99	95	106			
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)			
380-232715-M-1-A MS	Matrix Spike	98	97	112			
380-233049-I-1-A DU	Duplicate	98	95	107			
LCS 380-249209/23-A	Lab Control Sample	100	98	107			
LCSD 380-249209/24-A	Lab Control Sample Dup	97	97	105			
MB 380-249209/21-A	Method Blank	97	92	100			
MRL 380-249209/22-A	Lab Control Sample	98	93	105			
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)		
380-233071-1	AIEA GULCH WELLS PUMP 1 (331)	72	74	46	76	26	78		
Surrogate Legend									
TBP = 2,4,6-Tribromophenol (Surr)									
FBP = 2-Fluorobiphenyl (Surr)									
2FP = 2-Fluorophenol (Surr)									
NBZ = Nitrobenzene-d5 (Surr)									
PHL6 = Phenol-d6 (Surr)									
TPHd14 = p-Terphenyl-d14 (Surr)									

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)							
		TBP (33-139)	FBP (33-126)	2FP (12-120)	NBZ (36-120)	PHL6 (10-120)	TPHd14 (47-131)		
MB 570-791672/1-A	Method Blank	67	69	49	71	24	90		
Surrogate Legend									
TBP = 2,4,6-Tribromophenol (Surr)									
FBP = 2-Fluorobiphenyl (Surr)									
2FP = 2-Fluorophenol (Surr)									

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Surrogate Summary

Client: City & County of Honolulu

Project/Site: RED-HILL

NBZ = Nitrobenzene-d5 (Surr)

PHL6 = Phenol-d6 (Surr)

TPHd14 = p-Terphenyl-d14 (Surr)

Job ID: 380-233071-1

SDG: Weekly: Aiea Gulch Wells Pump 1

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)
380-233071-1	AIEA GULCH WELLS PUMP 1 (331	94	86	54	87	35	84

Surrogate Legend

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

FBP = 2-Fluorobiphenyl (Surr)

2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

PHL6 = Phenol-d6 (Surr)

TPHd14 = p-Terphenyl-d14 (Surr)

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)
380-233060-A-1-A MS	Matrix Spike	77	74	49	72	31	79
380-233060-A-1-B MSD	Matrix Spike Duplicate	82	81	58	80	37	85
LCS 570-791672/2-A	Lab Control Sample	89	84	65	85	41	89
LCSD 570-791672/3-A	Lab Control Sample Dup	84	86	61	64	39	86
MB 570-791672/1-A	Method Blank	86	73	50	75	31	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: 8015B GRO LL - Gasoline Range Organics - (GC)

Matrix: Drinking Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		BFB1 (38-134)					
380-233071-1	AIEA GULCH WELLS PUMP 1 (331	95					

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		BFB1 (38-134)					
380-233071-2	TB: AIEA GULCH WELLS PUMP 1 (	92					
380-233271-B-1 MS	Matrix Spike	93					

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Surrogate Summary

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

Job ID: 380-233071-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	BFB1 (38-134)					
380-233271-E-1 MSD	Matrix Spike Duplicate	92					
LCS 570-795451/3	Lab Control Sample	83					
LCSD 570-795451/4	Lab Control Sample Dup	88					
MB 570-795451/6	Method Blank	86					
MRL 570-795451/5	Lab Control Sample	89					
Surrogate Legend							
BFB = 4-Bromofluorobenzene (Surr)							

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

Matrix: Drinking Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	OTCSN1 (60-130)					
380-233071-1	AIEA GULCH WELLS PUMP 1 (331	90					
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)					
380-233060-C-1-C MS	Matrix Spike	82					
380-233060-C-1-D MSD	Matrix Spike Duplicate	92					
LCS 570-791434/2-A	Lab Control Sample	93					
LCSD 570-791434/3-A	Lab Control Sample Dup	91					
MB 570-791434/1-A	Method Blank	83					
MRL 570-791434/4-A - RA	Lab Control Sample	105					
Surrogate Legend							
OTCSN = n-Octacosane (Surr)							

QC Sample Results

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

Job ID: 380-233071-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: MB 380-249209/21-A
Matrix: Water
Analysis Batch: 249268

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 249209

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.099		0.099	ug/L		08/27/26 08:51	08/27/26 13:12	1
2,4'-DDD	<0.099		0.099	ug/L		08/27/26 08:51	08/27/26 13:12	1
2,4'-DDE	<0.099		0.099	ug/L		08/27/26 08:51	08/27/26 13:12	1
2,4'-DDT	<0.099		0.099	ug/L		08/27/26 08:51	08/27/26 13:12	1
2,4-Dinitrotoluene	<0.099		0.099	ug/L		08/27/26 08:51	08/27/26 13:12	1
2,6-Dinitrotoluene	<0.099		0.099	ug/L		08/27/26 08:51	08/27/26 13:12	1
2-Methylnaphthalene	<0.099		0.099	ug/L		08/27/26 08:51	08/27/26 13:12	1
4,4'-DDD	<0.099		0.099	ug/L		08/27/26 08:51	08/27/26 13:12	1
4,4'-DDE	<0.099		0.099	ug/L		08/27/26 08:51	08/27/26 13:12	1
4,4'-DDT	<0.099		0.099	ug/L		08/27/26 08:51	08/27/26 13:12	1
Acenaphthene	<0.099		0.099	ug/L		08/27/26 08:51	08/27/26 13:12	1
Acenaphthylene	<0.099		0.099	ug/L		08/27/26 08:51	08/27/26 13:12	1
Acetochlor	<0.099		0.099	ug/L		08/27/26 08:51	08/27/26 13:12	1
Alachlor	<0.050		0.050	ug/L		08/27/26 08:51	08/27/26 13:12	1
alpha-BHC	<0.099		0.099	ug/L		08/27/26 08:51	08/27/26 13:12	1
alpha-Chlordane	<0.050		0.050	ug/L		08/27/26 08:51	08/27/26 13:12	1
Anthracene	<0.020		0.020	ug/L		08/27/26 08:51	08/27/26 13:12	1
Atrazine	<0.050		0.050	ug/L		08/27/26 08:51	08/27/26 13:12	1
Benz(a)anthracene	<0.050		0.050	ug/L		08/27/26 08:51	08/27/26 13:12	1
Benzo[a]pyrene	<0.020		0.020	ug/L		08/27/26 08:51	08/27/26 13:12	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		08/27/26 08:51	08/27/26 13:12	1
Benzo[g,h,i]perylene	<0.050		0.050	ug/L		08/27/26 08:51	08/27/26 13:12	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		08/27/26 08:51	08/27/26 13:12	1
beta-BHC	<0.099		0.099	ug/L		08/27/26 08:51	08/27/26 13:12	1
Bis(2-ethylhexyl) phthalate	<0.60		0.60	ug/L		08/27/26 08:51	08/27/26 13:12	1
Bromacil	<0.099		0.099	ug/L		08/27/26 08:51	08/27/26 13:12	1
Butachlor	<0.050		0.050	ug/L		08/27/26 08:51	08/27/26 13:12	1
Butylbenzylphthalate	<0.50		0.50	ug/L		08/27/26 08:51	08/27/26 13:12	1
Chlorobenzilate	<0.099		0.099	ug/L		08/27/26 08:51	08/27/26 13:12	1
Chloroneb	<0.099		0.099	ug/L		08/27/26 08:51	08/27/26 13:12	1
Chlorothalonil (Draconil, Bravo)	<0.099		0.099	ug/L		08/27/26 08:51	08/27/26 13:12	1
Chlorpyrifos	<0.050		0.050	ug/L		08/27/26 08:51	08/27/26 13:12	1
Chrysene	<0.020		0.020	ug/L		08/27/26 08:51	08/27/26 13:12	1
delta-BHC	<0.099		0.099	ug/L		08/27/26 08:51	08/27/26 13:12	1
Di(2-ethylhexyl)adipate	<0.60		0.60	ug/L		08/27/26 08:51	08/27/26 13:12	1
Dibenz(a,h)anthracene	<0.050		0.050	ug/L		08/27/26 08:51	08/27/26 13:12	1
Diclorvos (DDVP)	<0.050		0.050	ug/L		08/27/26 08:51	08/27/26 13:12	1
Dieldrin	<0.0099		0.0099	ug/L		08/27/26 08:51	08/27/26 13:12	1
Diethylphthalate	<0.50		0.50	ug/L		08/27/26 08:51	08/27/26 13:12	1
Dimethylphthalate	<0.50		0.50	ug/L		08/27/26 08:51	08/27/26 13:12	1
Di-n-butyl phthalate	<0.99		0.99	ug/L		08/27/26 08:51	08/27/26 13:12	1
Di-n-octyl phthalate	<0.099		0.099	ug/L		08/27/26 08:51	08/27/26 13:12	1
Endosulfan I (Alpha)	<0.099		0.099	ug/L		08/27/26 08:51	08/27/26 13:12	1
Endosulfan II (Beta)	<0.099		0.099	ug/L		08/27/26 08:51	08/27/26 13:12	1
Endosulfan sulfate	<0.099		0.099	ug/L		08/27/26 08:51	08/27/26 13:12	1
Endrin	<0.0099		0.0099	ug/L		08/27/26 08:51	08/27/26 13:12	1
Endrin aldehyde	<0.099		0.099	ug/L		08/27/26 08:51	08/27/26 13:12	1
EPTC	<0.099		0.099	ug/L		08/27/26 08:51	08/27/26 13:12	1

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QC Sample Results

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

Job ID: 380-233071-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: MB 380-249209/21-A

Matrix: Water

Analysis Batch: 249268

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 249209

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.099		0.099	ug/L		08/27/26 08:51	08/27/26 13:12	1
Fluorene	<0.050		0.050	ug/L		08/27/26 08:51	08/27/26 13:12	1
gamma-Chlordane	<0.050		0.050	ug/L		08/27/26 08:51	08/27/26 13:12	1
Heptachlor	<0.0099		0.0099	ug/L		08/27/26 08:51	08/27/26 13:12	1
Heptachlor epoxide (isomer B)	<0.0099		0.0099	ug/L		08/27/26 08:51	08/27/26 13:12	1
Hexachlorobenzene	<0.050		0.050	ug/L		08/27/26 08:51	08/27/26 13:12	1
Hexachlorocyclopentadiene	<0.050		0.050	ug/L		08/27/26 08:51	08/27/26 13:12	1
Indeno[1,2,3-cd]pyrene	<0.050		0.050	ug/L		08/27/26 08:51	08/27/26 13:12	1
Isophorone	<0.099		0.099	ug/L		08/27/26 08:51	08/27/26 13:12	1
Lindane	<0.0099		0.0099	ug/L		08/27/26 08:51	08/27/26 13:12	1
Malathion	<0.099		0.099	ug/L		08/27/26 08:51	08/27/26 13:12	1
Methoxychlor	<0.050		0.050	ug/L		08/27/26 08:51	08/27/26 13:12	1
Metolachlor	<0.050		0.050	ug/L		08/27/26 08:51	08/27/26 13:12	1
Molinate	<0.099		0.099	ug/L		08/27/26 08:51	08/27/26 13:12	1
Naphthalene	<0.099		0.099	ug/L		08/27/26 08:51	08/27/26 13:12	1
Parathion	<0.099		0.099	ug/L		08/27/26 08:51	08/27/26 13:12	1
Pendimethalin (Penoxaline)	<0.099		0.099	ug/L		08/27/26 08:51	08/27/26 13:12	1
Phenanthrene	<0.040		0.040	ug/L		08/27/26 08:51	08/27/26 13:12	1
Propachlor	<0.050		0.050	ug/L		08/27/26 08:51	08/27/26 13:12	1
Pyrene	<0.050		0.050	ug/L		08/27/26 08:51	08/27/26 13:12	1
Simazine	<0.050		0.050	ug/L		08/27/26 08:51	08/27/26 13:12	1
Terbacil	<0.099		0.099	ug/L		08/27/26 08:51	08/27/26 13:12	1
Terbutylazine	<0.099		0.099	ug/L		08/27/26 08:51	08/27/26 13:12	1
Thiobencarb	<0.099		0.099	ug/L		08/27/26 08:51	08/27/26 13:12	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		08/27/26 08:51	08/27/26 13:12	1
trans-Nonachlor	<0.050		0.050	ug/L		08/27/26 08:51	08/27/26 13:12	1
Trifluralin	<0.099		0.099	ug/L		08/27/26 08:51	08/27/26 13:12	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Undecane	6.96	T J N	ug/L		3.18	1120-21-4	08/27/26 08:51	08/27/26 13:12	1
Unknown	0.620	T J	ug/L		4.78	N/A	08/27/26 08:51	08/27/26 13:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	97		70 - 130	08/27/26 08:51	08/27/26 13:12	1
Perylene-d12	92		70 - 130	08/27/26 08:51	08/27/26 13:12	1
Triphenylphosphate	100		70 - 130	08/27/26 08:51	08/27/26 13:12	1

Lab Sample ID: LCS 380-249209/23-A

Matrix: Water

Analysis Batch: 249268

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 249209

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	1.97	1.98		ug/L		100	70 - 130
2,4'-DDD	1.97	2.02		ug/L		102	70 - 130
2,4'-DDE	1.97	2.01		ug/L		102	70 - 130
2,4'-DDT	1.97	2.02		ug/L		102	70 - 130
2,4-Dinitrotoluene	1.97	1.99		ug/L		101	70 - 130
2,6-Dinitrotoluene	1.97	1.95		ug/L		99	70 - 130

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QC Sample Results

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

Job ID: 380-233071-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: LCS 380-249209/23-A

Matrix: Water

Analysis Batch: 249268

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 249209

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Methylnaphthalene	1.97	2.00		ug/L		101	70 - 130
4,4'-DDD	1.97	2.04		ug/L		103	70 - 130
4,4'-DDE	1.97	1.97		ug/L		100	70 - 130
4,4'-DDT	1.97	2.07		ug/L		105	70 - 130
Acenaphthene	1.97	2.01		ug/L		102	70 - 130
Acenaphthylene	1.97	1.83		ug/L		93	70 - 130
Acetochlor	1.97	2.01		ug/L		102	70 - 130
Alachlor	1.97	2.00		ug/L		101	70 - 130
alpha-BHC	1.97	2.05		ug/L		104	70 - 130
alpha-Chlordane	1.97	1.99		ug/L		101	70 - 130
Anthracene	1.97	1.88		ug/L		95	70 - 130
Atrazine	1.97	2.08		ug/L		106	70 - 130
Benz(a)anthracene	1.97	2.09		ug/L		106	70 - 130
Benzo[a]pyrene	1.97	2.02		ug/L		102	70 - 130
Benzo[b]fluoranthene	1.97	2.12		ug/L		108	70 - 130
Benzo[g,h,i]perylene	1.97	2.04		ug/L		104	70 - 130
Benzo[k]fluoranthene	1.97	1.99		ug/L		101	70 - 130
beta-BHC	1.97	2.07		ug/L		105	70 - 130
Bis(2-ethylhexyl) phthalate	1.97	2.00		ug/L		102	70 - 130
Bromacil	1.97	1.88		ug/L		95	70 - 130
Butachlor	1.97	2.13		ug/L		108	70 - 130
Butylbenzylphthalate	1.97	2.21		ug/L		112	70 - 130
Chlorobenzilate	1.97	2.08		ug/L		105	70 - 130
Chloroneb	1.97	2.06		ug/L		104	70 - 130
Chlorothalonil (Draconil, Bravo)	1.97	2.08		ug/L		106	70 - 130
Chlorpyrifos	1.97	2.05		ug/L		104	70 - 130
Chrysene	1.97	2.02		ug/L		102	70 - 130
delta-BHC	1.97	2.05		ug/L		104	70 - 130
Di(2-ethylhexyl)adipate	1.97	2.15		ug/L		109	70 - 130
Dibenz(a,h)anthracene	1.97	2.01		ug/L		102	70 - 130
Diclorvos (DDVP)	1.97	1.97		ug/L		100	70 - 130
Dieldrin	1.97	1.97		ug/L		100	70 - 130
Diethylphthalate	1.97	2.16		ug/L		109	70 - 130
Dimethylphthalate	1.97	2.07		ug/L		105	70 - 130
Di-n-butyl phthalate	3.95	4.27		ug/L		108	70 - 130
Di-n-octyl phthalate	1.97	1.87		ug/L		95	70 - 130
Endosulfan I (Alpha)	1.97	2.01		ug/L		102	70 - 130
Endosulfan II (Beta)	1.97	2.05		ug/L		104	70 - 130
Endosulfan sulfate	1.97	2.00		ug/L		101	70 - 130
Endrin	1.97	2.03		ug/L		103	70 - 130
Endrin aldehyde	1.97	2.07		ug/L		105	60 - 130
EPTC	1.97	2.05		ug/L		104	70 - 130
Fluoranthene	1.97	2.08		ug/L		105	70 - 130
Fluorene	1.97	2.03		ug/L		103	70 - 130
gamma-Chlordane	1.97	1.98		ug/L		101	70 - 130
Heptachlor	1.97	1.93		ug/L		98	70 - 130
Heptachlor epoxide (isomer B)	1.97	1.97		ug/L		100	70 - 130
Hexachlorobenzene	1.97	1.98		ug/L		100	70 - 130
Hexachlorocyclopentadiene	1.97	1.97		ug/L		100	70 - 130

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QC Sample Results

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

Job ID: 380-233071-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: LCS 380-249209/23-A

Matrix: Water

Analysis Batch: 249268

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 249209

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Indeno[1,2,3-cd]pyrene	1.97	2.02		ug/L		103	70 - 130
Isophorone	1.97	2.00		ug/L		102	70 - 130
Lindane	1.97	2.04		ug/L		103	70 - 130
Malathion	1.97	2.06		ug/L		104	70 - 130
Methoxychlor	1.97	2.10		ug/L		107	70 - 130
Metolachlor	1.97	2.03		ug/L		103	70 - 130
Molinate	1.97	2.06		ug/L		104	70 - 130
Naphthalene	1.97	1.92		ug/L		97	70 - 130
Parathion	1.97	2.07		ug/L		105	70 - 130
Pendimethalin (Penoxaline)	1.97	2.06		ug/L		104	70 - 130
Phenanthrene	1.97	2.01		ug/L		102	70 - 130
Propachlor	1.97	2.11		ug/L		107	70 - 130
Pyrene	1.97	2.07		ug/L		105	70 - 130
Simazine	1.97	2.09		ug/L		106	70 - 130
Terbacil	1.97	1.96		ug/L		99	70 - 130
Terbutylazine	1.97	2.16		ug/L		110	70 - 130
Thiobencarb	1.97	2.08		ug/L		105	70 - 130
trans-Nonachlor	1.97	1.95		ug/L		99	70 - 130
Trifluralin	1.97	1.97		ug/L		100	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Nitro-m-xylene	100		70 - 130
Perylene-d12	98		70 - 130
Triphenylphosphate	107		70 - 130

Lab Sample ID: LCSD 380-249209/24-A

Matrix: Water

Analysis Batch: 249268

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 249209

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	1.99	2.03		ug/L		102	70 - 130	2	20
2,4'-DDD	1.99	2.09		ug/L		105	70 - 130	3	20
2,4'-DDE	1.99	2.09		ug/L		105	70 - 130	4	20
2,4'-DDT	1.99	2.12		ug/L		106	70 - 130	5	20
2,4-Dinitrotoluene	1.99	2.08		ug/L		105	70 - 130	4	20
2,6-Dinitrotoluene	1.99	2.00		ug/L		100	70 - 130	3	20
2-Methylnaphthalene	1.99	2.05		ug/L		103	70 - 130	3	20
4,4'-DDD	1.99	2.11		ug/L		106	70 - 130	4	20
4,4'-DDE	1.99	2.05		ug/L		103	70 - 130	4	20
4,4'-DDT	1.99	2.16		ug/L		109	70 - 130	4	20
Acenaphthene	1.99	2.09		ug/L		105	70 - 130	4	20
Acenaphthylene	1.99	1.98		ug/L		100	70 - 130	8	20
Acetochlor	1.99	2.07		ug/L		104	70 - 130	3	20
Alachlor	1.99	2.08		ug/L		105	70 - 130	4	20
alpha-BHC	1.99	2.12		ug/L		107	70 - 130	4	20
alpha-Chlordane	1.99	2.04		ug/L		102	70 - 130	2	20
Anthracene	1.99	1.97		ug/L		99	70 - 130	5	20
Atrazine	1.99	2.21		ug/L		111	70 - 130	6	20

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QC Sample Results

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

Job ID: 380-233071-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: LCSD 380-249209/24-A

Matrix: Water

Analysis Batch: 249268

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 249209

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	Limit
	Added	Result	Qualifier				Limits		
Benz(a)anthracene	1.99	2.20		ug/L		111	70 - 130	5	20
Benzo[a]pyrene	1.99	2.08		ug/L		104	70 - 130	3	20
Benzo[b]fluoranthene	1.99	2.13		ug/L		107	70 - 130	1	20
Benzo[g,h,i]perylene	1.99	2.06		ug/L		103	70 - 130	1	20
Benzo[k]fluoranthene	1.99	2.15		ug/L		108	70 - 130	8	20
beta-BHC	1.99	2.21		ug/L		111	70 - 130	7	20
Bis(2-ethylhexyl) phthalate	1.99	2.06		ug/L		103	70 - 130	3	20
Bromacil	1.99	1.91		ug/L		96	70 - 130	1	20
Butachlor	1.99	2.22		ug/L		112	70 - 130	4	20
Butylbenzylphthalate	1.99	2.25		ug/L		113	70 - 130	2	20
Chlorobenzilate	1.99	2.16		ug/L		108	70 - 130	4	20
Chloroneb	1.99	2.12		ug/L		107	70 - 130	3	20
Chlorothalonil (Draconil, Bravo)	1.99	2.17		ug/L		109	70 - 130	4	20
Chlorpyrifos	1.99	2.13		ug/L		107	70 - 130	4	20
Chrysene	1.99	2.07		ug/L		104	70 - 130	3	20
delta-BHC	1.99	2.11		ug/L		106	70 - 130	3	20
Di(2-ethylhexyl)adipate	1.99	2.30		ug/L		115	70 - 130	6	20
Dibenz(a,h)anthracene	1.99	2.00		ug/L		101	70 - 130	0	20
Diclorvos (DDVP)	1.99	1.98		ug/L		100	70 - 130	1	20
Dieldrin	1.99	1.99		ug/L		100	70 - 130	1	20
Diethylphthalate	1.99	2.23		ug/L		112	70 - 130	3	20
Dimethylphthalate	1.99	2.13		ug/L		107	70 - 130	3	20
Di-n-butyl phthalate	3.98	4.47		ug/L		112	70 - 130	5	20
Di-n-octyl phthalate	1.99	2.01		ug/L		101	70 - 130	7	20
Endosulfan I (Alpha)	1.99	2.06		ug/L		103	70 - 130	2	20
Endosulfan II (Beta)	1.99	2.05		ug/L		103	70 - 130	0	20
Endosulfan sulfate	1.99	2.07		ug/L		104	70 - 130	3	20
Endrin	1.99	2.10		ug/L		106	70 - 130	4	20
Endrin aldehyde	1.99	2.11		ug/L		106	60 - 130	2	20
EPTC	1.99	2.08		ug/L		105	70 - 130	2	20
Fluoranthene	1.99	2.18		ug/L		110	70 - 130	5	20
Fluorene	1.99	2.12		ug/L		107	70 - 130	4	20
gamma-Chlordane	1.99	2.04		ug/L		103	70 - 130	3	20
Heptachlor	1.99	2.01		ug/L		101	70 - 130	4	20
Heptachlor epoxide (isomer B)	1.99	2.05		ug/L		103	70 - 130	4	20
Hexachlorobenzene	1.99	2.06		ug/L		104	70 - 130	4	20
Hexachlorocyclopentadiene	1.99	2.04		ug/L		103	70 - 130	3	20
Indeno[1,2,3-cd]pyrene	1.99	2.11		ug/L		106	70 - 130	4	20
Isophorone	1.99	1.99		ug/L		100	70 - 130	1	20
Lindane	1.99	2.15		ug/L		108	70 - 130	5	20
Malathion	1.99	2.16		ug/L		109	70 - 130	5	20
Methoxychlor	1.99	2.15		ug/L		108	70 - 130	2	20
Metolachlor	1.99	2.09		ug/L		105	70 - 130	3	20
Molinate	1.99	2.15		ug/L		108	70 - 130	4	20
Naphthalene	1.99	1.95		ug/L		98	70 - 130	2	20
Parathion	1.99	2.18		ug/L		110	70 - 130	5	20
Pendimethalin (Penoxaline)	1.99	2.15		ug/L		108	70 - 130	5	20
Phenanthrene	1.99	2.10		ug/L		106	70 - 130	5	20
Propachlor	1.99	2.19		ug/L		110	70 - 130	4	20

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QC Sample Results

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

Job ID: 380-233071-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: LCSD 380-249209/24-A

Matrix: Water

Analysis Batch: 249268

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 249209

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Pyrene	1.99	2.15		ug/L		108	70 - 130	4	20
Simazine	1.99	2.16		ug/L		109	70 - 130	3	20
Terbacil	1.99	2.00		ug/L		100	70 - 130	2	20
Terbutylazine	1.99	2.27		ug/L		114	70 - 130	5	20
Thiobencarb	1.99	2.18		ug/L		109	70 - 130	4	20
trans-Nonachlor	1.99	2.04		ug/L		103	70 - 130	5	20
Trifluralin	1.99	2.01		ug/L		101	70 - 130	2	20

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

Lab Sample ID: MRL 380-249209/22-A

Matrix: Water

Analysis Batch: 249268

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 249209

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	0.0994	0.0974	J	ug/L		98	50 - 150
2,4'-DDD	0.0994	0.107		ug/L		108	50 - 150
2,4'-DDE	0.0994	0.113		ug/L		114	50 - 150
2,4'-DDT	0.0994	0.121		ug/L		121	50 - 150
2,4-Dinitrotoluene	0.0994	0.113		ug/L		113	50 - 150
2,6-Dinitrotoluene	0.0994	0.116		ug/L		117	50 - 150
2-Methylnaphthalene	0.0994	0.103		ug/L		103	50 - 150
4,4'-DDD	0.0994	0.126		ug/L		126	50 - 150
4,4'-DDE	0.0994	0.114		ug/L		115	50 - 150
4,4'-DDT	0.0994	0.118		ug/L		119	50 - 150
Acenaphthene	0.0994	0.104		ug/L		104	50 - 150
Acenaphthylene	0.0994	0.0939	J	ug/L		95	50 - 150
Acetochlor	0.0994	0.116		ug/L		117	50 - 150
Alachlor	0.0497	0.0571		ug/L		115	50 - 150
alpha-BHC	0.0994	0.115		ug/L		115	50 - 150
alpha-Chlordane	0.0249	<0.029		ug/L		114	50 - 150
Anthracene	0.0199	0.0219		ug/L		110	50 - 150
Atrazine	0.0497	0.0615		ug/L		124	50 - 150
Benz(a)anthracene	0.0497	0.0563		ug/L		113	50 - 150
Benzo[a]pyrene	0.0199	0.0192	J	ug/L		97	50 - 150
Benzo[b]fluoranthene	0.0199	0.0218		ug/L		110	50 - 150
Benzo[g,h,i]perylene	0.0497	0.0513		ug/L		103	50 - 150
Benzo[k]fluoranthene	0.0199	0.0213		ug/L		107	50 - 150
beta-BHC	0.0994	0.119		ug/L		120	50 - 150
Bis(2-ethylhexyl) phthalate	0.596	0.738		ug/L		124	50 - 150
Bromacil	0.0994	0.113		ug/L		113	50 - 150
Butachlor	0.0497	0.0622		ug/L		125	50 - 150
Butylbenzylphthalate	0.497	0.616		ug/L		124	50 - 150
Chlorobenzilate	0.0994	0.115		ug/L		116	50 - 150
Chloroneb	0.0994	0.114		ug/L		114	50 - 150

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QC Sample Results

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

Job ID: 380-233071-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: MRL 380-249209/22-A

Matrix: Water

Analysis Batch: 249268

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 249209

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chlorothalonil (Draconil, Bravo)	0.0994	0.114		ug/L		115	50 - 150
Chlorpyrifos	0.0497	0.0556		ug/L		112	50 - 150
Chrysene	0.0199	0.0232		ug/L		117	50 - 150
delta-BHC	0.0994	0.122		ug/L		123	50 - 150
Di(2-ethylhexyl)adipate	0.596	0.763		ug/L		128	50 - 150
Dibenz(a,h)anthracene	0.0497	0.0562		ug/L		113	50 - 150
Diclorvos (DDVP)	0.0497	0.0560		ug/L		113	50 - 150
Dieldrin	0.00994	0.0135		ug/L		136	50 - 150
Diethylphthalate	0.497	0.625		ug/L		126	50 - 150
Dimethylphthalate	0.497	0.581		ug/L		117	50 - 150
Di-n-butyl phthalate	0.497	0.677	J	ug/L		136	49 - 243
Di-n-octyl phthalate	0.0994	0.110		ug/L		110	50 - 150
Endosulfan I (Alpha)	0.0994	0.0955	J	ug/L		96	50 - 150
Endosulfan II (Beta)	0.0994	0.108		ug/L		109	50 - 150
Endosulfan sulfate	0.0994	0.120		ug/L		120	50 - 150
Endrin	0.00994	0.0138		ug/L		139	50 - 150
Endrin aldehyde	0.0994	0.124		ug/L		125	50 - 150
EPTC	0.0994	0.101		ug/L		102	50 - 150
Fluoranthene	0.0994	0.110		ug/L		111	50 - 150
Fluorene	0.0497	0.0564		ug/L		114	50 - 150
gamma-Chlordane	0.0249	0.0278	J	ug/L		112	50 - 150
Heptachlor	0.00994	0.0110		ug/L		110	50 - 150
Heptachlor epoxide (isomer B)	0.00994	0.0120		ug/L		121	50 - 150
Hexachlorobenzene	0.0497	0.0529		ug/L		107	50 - 150
Hexachlorocyclopentadiene	0.0497	0.0582		ug/L		117	50 - 150
Indeno[1,2,3-cd]pyrene	0.0497	0.0538		ug/L		108	50 - 150
Isophorone	0.0994	0.0964	J	ug/L		97	50 - 150
Lindane	0.00994	0.0111		ug/L		111	50 - 150
Malathion	0.0994	0.113		ug/L		114	50 - 150
Methoxychlor	0.0497	0.0584		ug/L		118	50 - 150
Metolachlor	0.0497	0.0557		ug/L		112	50 - 150
Molinate	0.0994	0.116		ug/L		116	50 - 150
Naphthalene	0.0994	0.0979	J	ug/L		98	50 - 150
Parathion	0.0994	0.103		ug/L		103	50 - 150
Pendimethalin (Penoxaline)	0.0994	0.102		ug/L		103	50 - 150
Phenanthrene	0.0398	0.0450		ug/L		113	50 - 150
Propachlor	0.0497	0.0553		ug/L		111	50 - 150
Pyrene	0.0497	0.0548		ug/L		110	50 - 150
Simazine	0.0497	0.0642		ug/L		129	50 - 150
Terbacil	0.0994	0.112		ug/L		113	50 - 150
Terbutylazine	0.0994	0.119		ug/L		120	50 - 150
Thiobencarb	0.0994	0.123		ug/L		123	50 - 150
trans-Nonachlor	0.0249	0.0301	J	ug/L		121	50 - 150
Trifluralin	0.0994	0.102		ug/L		103	50 - 150

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

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QC Sample Results

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

Job ID: 380-233071-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: MRL 380-249209/22-A

Matrix: Water

Analysis Batch: 249268

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 249209

Surrogate	MRL %Recovery	MRL Qualifier	Limits
Triphenylphosphate	105		70 - 130

Lab Sample ID: 380-232715-M-1-A MS

Matrix: Water

Analysis Batch: 249268

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 249209

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.096		1.92	1.97		ug/L		103	70 - 130
2,4'-DDD	<0.096		1.92	2.04		ug/L		106	70 - 130
2,4'-DDE	<0.096		1.92	2.00		ug/L		104	70 - 130
2,4'-DDT	<0.096		1.92	1.99		ug/L		104	70 - 130
2,4-Dinitrotoluene	<0.096		1.92	2.12		ug/L		110	70 - 130
2,6-Dinitrotoluene	<0.096		1.92	2.01		ug/L		105	70 - 130
2-Methylnaphthalene	<0.096		1.92	1.97		ug/L		103	70 - 130
4,4'-DDD	<0.096		1.92	2.06		ug/L		107	70 - 130
4,4'-DDE	<0.096		1.92	1.90		ug/L		99	70 - 130
4,4'-DDT	<0.096		1.92	2.04		ug/L		106	70 - 130
Acenaphthene	<0.096		1.92	2.00		ug/L		104	70 - 130
Acenaphthylene	<0.096		1.92	1.91		ug/L		99	70 - 130
Acetochlor	<0.096		1.92	2.10		ug/L		109	70 - 130
Alachlor	<0.048		1.92	2.08		ug/L		108	70 - 130
alpha-BHC	<0.096		1.92	2.07		ug/L		108	70 - 130
alpha-Chlordane	<0.048		1.92	2.03		ug/L		106	70 - 130
Anthracene	<0.019	F1	1.92	0.920	F1	ug/L		48	70 - 130
Atrazine	<0.048		1.92	2.26		ug/L		118	70 - 130
Benz(a)anthracene	<0.048		1.92	1.92		ug/L		100	70 - 130
Benzo[a]pyrene	<0.019		1.92	1.53		ug/L		80	70 - 130
Benzo[b]fluoranthene	<0.019		1.92	2.06		ug/L		107	70 - 130
Benzo[g,h,i]perylene	<0.048		1.92	1.98		ug/L		103	70 - 130
Benzo[k]fluoranthene	<0.019		1.92	1.98		ug/L		103	70 - 130
beta-BHC	<0.096		1.92	2.25		ug/L		117	70 - 130
Bis(2-ethylhexyl) phthalate	<0.58		1.92	1.83		ug/L		95	70 - 130
Bromacil	<0.096		1.92	2.08		ug/L		108	70 - 130
Butachlor	<0.048		1.92	2.22		ug/L		115	70 - 130
Butylbenzylphthalate	<0.48		1.92	2.30		ug/L		120	70 - 130
Chlorobenzilate	<0.096		1.92	2.19		ug/L		114	70 - 130
Chloroneb	<0.096		1.92	2.07		ug/L		108	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.096		1.92	2.16		ug/L		112	70 - 130
Chlorpyrifos	<0.048		1.92	2.15		ug/L		112	70 - 130
Chrysene	<0.019		1.92	1.98		ug/L		103	70 - 130
delta-BHC	<0.096		1.92	2.12		ug/L		111	70 - 130
Di(2-ethylhexyl)adipate	<0.58		1.92	2.07		ug/L		108	70 - 130
Dibenz(a,h)anthracene	<0.048		1.92	1.90		ug/L		99	70 - 130
Diclorvos (DDVP)	<0.048		1.92	1.93		ug/L		101	70 - 130
Dieldrin	<0.0096		1.92	2.05		ug/L		107	70 - 130
Diethylphthalate	<0.48		1.92	2.22		ug/L		116	70 - 130
Dimethylphthalate	<0.48		1.92	2.11		ug/L		110	70 - 130
Di-n-butyl phthalate	<0.96		3.84	4.41		ug/L		115	70 - 130

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QC Sample Results

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

Job ID: 380-233071-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: 380-232715-M-1-A MS

Matrix: Water

Analysis Batch: 249268

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 249209

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Di-n-octyl phthalate	<0.096		1.92	1.70		ug/L		89	70 - 130
Endosulfan I (Alpha)	<0.096		1.92	2.05		ug/L		107	70 - 130
Endosulfan II (Beta)	<0.096		1.92	2.06		ug/L		107	70 - 130
Endosulfan sulfate	<0.096		1.92	2.10		ug/L		109	70 - 130
Endrin	<0.0096		1.92	2.11		ug/L		110	70 - 130
Endrin aldehyde	<0.096		1.92	1.90		ug/L		99	60 - 130
EPTC	<0.096		1.92	2.02		ug/L		105	70 - 130
Fluoranthene	<0.096		1.92	2.12		ug/L		110	70 - 130
Fluorene	<0.048		1.92	2.02		ug/L		105	70 - 130
gamma-Chlordane	<0.048		1.92	2.02		ug/L		105	70 - 130
Heptachlor	<0.0096		1.92	1.96		ug/L		102	70 - 130
Heptachlor epoxide (isomer B)	<0.0096		1.92	2.03		ug/L		106	70 - 130
Hexachlorobenzene	<0.048		1.92	1.95		ug/L		101	70 - 130
Hexachlorocyclopentadiene	<0.048		1.92	1.98		ug/L		103	70 - 130
Indeno[1,2,3-cd]pyrene	<0.048		1.92	1.98		ug/L		103	70 - 130
Isophorone	<0.096		1.92	1.97		ug/L		102	70 - 130
Lindane	<0.0096		1.92	2.11		ug/L		110	70 - 130
Malathion	<0.096		1.92	2.13		ug/L		111	70 - 130
Methoxychlor	<0.048		1.92	2.15		ug/L		112	70 - 130
Metolachlor	<0.048		1.92	2.13		ug/L		111	70 - 130
Molinate	<0.096		1.92	2.08		ug/L		108	70 - 130
Naphthalene	<0.096		1.92	1.90		ug/L		99	70 - 130
Parathion	<0.096		1.92	2.17		ug/L		113	70 - 130
Pendimethalin (Penoxaline)	<0.096		1.92	2.14		ug/L		111	70 - 130
Phenanthrene	<0.039		1.92	1.99		ug/L		104	70 - 130
Propachlor	<0.048		1.92	2.22		ug/L		116	70 - 130
Pyrene	<0.048		1.92	2.08		ug/L		108	70 - 130
Simazine	<0.048		1.92	2.24		ug/L		117	70 - 130
Terbacil	<0.096		1.92	2.11		ug/L		110	70 - 130
Terbutylazine	<0.096		1.92	2.34		ug/L		122	70 - 130
Thiobencarb	<0.096		1.92	2.13		ug/L		111	70 - 130
trans-Nonachlor	<0.048		1.92	2.01		ug/L		105	70 - 130
Trifluralin	<0.096		1.92	2.07		ug/L		108	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Nitro-m-xylene	98		70 - 130
Perylene-d12	97		70 - 130
Triphenylphosphate	112		70 - 130

Lab Sample ID: 380-233049-I-1-A DU

Matrix: Water

Analysis Batch: 249268

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 249209

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
1-Methylnaphthalene	<0.098		<0.097		ug/L		NC	20
2,4'-DDD	<0.098		<0.097		ug/L		NC	20
2,4'-DDE	<0.098		<0.097		ug/L		NC	20
2,4'-DDT	<0.098		<0.097		ug/L		NC	20

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QC Sample Results

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

Job ID: 380-233071-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: 380-233049-I-1-A DU

Matrix: Water

Analysis Batch: 249268

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 249209

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
2,4-Dinitrotoluene	<0.098		<0.097		ug/L		NC	20
2,6-Dinitrotoluene	<0.098		<0.097		ug/L		NC	20
2-Methylnaphthalene	<0.098		<0.097		ug/L		NC	20
4,4'-DDD	<0.098		<0.097		ug/L		NC	20
4,4'-DDE	<0.098		<0.097		ug/L		NC	20
4,4'-DDT	<0.098		<0.097		ug/L		NC	20
Acenaphthene	<0.098		<0.097		ug/L		NC	20
Acenaphthylene	<0.098		<0.097		ug/L		NC	20
Acetochlor	<0.098		<0.097		ug/L		NC	20
Alachlor	<0.049		<0.048		ug/L		NC	20
alpha-BHC	<0.098		<0.097		ug/L		NC	20
alpha-Chlordane	<0.049		<0.048		ug/L		NC	20
Anthracene	<0.020		<0.019		ug/L		NC	20
Atrazine	<0.049		<0.048		ug/L		NC	20
Benz(a)anthracene	<0.049		<0.048		ug/L		NC	20
Benzo[a]pyrene	<0.020		<0.019		ug/L		NC	20
Benzo[b]fluoranthene	<0.020		<0.019		ug/L		NC	20
Benzo[g,h,i]perylene	<0.049		<0.048		ug/L		NC	20
Benzo[k]fluoranthene	<0.020		<0.019		ug/L		NC	20
beta-BHC	<0.098		<0.097		ug/L		NC	20
Bis(2-ethylhexyl) phthalate	<0.59		<0.58		ug/L		NC	20
Bromacil	<0.098		<0.097		ug/L		NC	20
Butachlor	<0.049		<0.048		ug/L		NC	20
Butylbenzylphthalate	<0.49		<0.48		ug/L		NC	20
Chlorobenzilate	<0.098		<0.097		ug/L		NC	20
Chloroneb	<0.098		<0.097		ug/L		NC	20
Chlorothalonil (Draconil, Bravo)	<0.098		<0.097		ug/L		NC	20
Chlorpyrifos	<0.049		<0.048		ug/L		NC	20
Chrysene	<0.020		<0.019		ug/L		NC	20
delta-BHC	<0.098		<0.097		ug/L		NC	20
Di(2-ethylhexyl)adipate	<0.59		<0.58		ug/L		NC	20
Dibenz(a,h)anthracene	<0.049		<0.048		ug/L		NC	20
Diclorvos (DDVP)	<0.049		<0.048		ug/L		NC	20
Dieldrin	0.070		0.0699		ug/L		0.1	20
Diethylphthalate	<0.49		<0.48		ug/L		NC	20
Dimethylphthalate	<0.49		<0.48		ug/L		NC	20
Di-n-butyl phthalate	<0.98		<0.97		ug/L		NC	20
Di-n-octyl phthalate	<0.098		<0.097		ug/L		NC	20
Endosulfan I (Alpha)	<0.098		<0.097		ug/L		NC	20
Endosulfan II (Beta)	<0.098		<0.097		ug/L		NC	20
Endosulfan sulfate	<0.098		<0.097		ug/L		NC	20
Endrin	<0.0098		<0.0097		ug/L		NC	20
Endrin aldehyde	<0.098		<0.097		ug/L		NC	20
EPTC	<0.098		<0.097		ug/L		NC	20
Fluoranthene	<0.098		<0.097		ug/L		NC	20
Fluorene	<0.049		<0.048		ug/L		NC	20
gamma-Chlordane	<0.049		<0.048		ug/L		NC	20
Heptachlor	<0.0098		<0.0097		ug/L		NC	20
Heptachlor epoxide (isomer B)	0.017		0.0157		ug/L		9	20

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QC Sample Results

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

Job ID: 380-233071-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: 380-233049-I-1-A DU

Matrix: Water

Analysis Batch: 249268

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 249209

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Hexachlorobenzene	<0.049		<0.048		ug/L		NC	20
Hexachlorocyclopentadiene	<0.049		<0.048		ug/L		NC	20
Indeno[1,2,3-cd]pyrene	<0.049		<0.048		ug/L		NC	20
Isophorone	<0.098		<0.097		ug/L		NC	20
Lindane	<0.0098		<0.0097		ug/L		NC	20
Malathion	<0.098		<0.097		ug/L		NC	20
Methoxychlor	<0.049		<0.048		ug/L		NC	20
Metolachlor	<0.049		<0.048		ug/L		NC	20
Molinate	<0.098		<0.097		ug/L		NC	20
Naphthalene	<0.098		<0.097		ug/L		NC	20
Parathion	<0.098		<0.097		ug/L		NC	20
Pendimethalin (Penoxaline)	<0.098		<0.097		ug/L		NC	20
Phenanthrene	<0.039		<0.039		ug/L		NC	20
Propachlor	<0.049		<0.048		ug/L		NC	20
Pyrene	<0.049		<0.048		ug/L		NC	20
Simazine	<0.049		<0.048		ug/L		NC	20
Terbacil	<0.098		<0.097		ug/L		NC	20
Terbutylazine	<0.098		<0.097		ug/L		NC	20
Thiobencarb	<0.098		<0.097		ug/L		NC	20
Total Permethrin (mixed isomers)	<0.20		<0.19		ug/L		NC	20
trans-Nonachlor	<0.049		<0.048		ug/L		NC	20
Trifluralin	<0.098		<0.097		ug/L		NC	20

Surrogate	%Recovery	Qualifier	Limits
2-Nitro-m-xylene	98		70 - 130
Perylene-d12	95		70 - 130
Triphenylphosphate	107		70 - 130

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

Lab Sample ID: MB 570-791672/1-A

Matrix: Water

Analysis Batch: 797504

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 791672

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	08/28/26 06:39	09/09/26 17:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	67		33 - 139	08/28/26 06:39	09/09/26 17:05	1
2-Fluorobiphenyl (Surr)	69		33 - 126	08/28/26 06:39	09/09/26 17:05	1
2-Fluorophenol (Surr)	49		12 - 120	08/28/26 06:39	09/09/26 17:05	1
Nitrobenzene-d5 (Surr)	71		36 - 120	08/28/26 06:39	09/09/26 17:05	1
Phenol-d6 (Surr)	24		10 - 120	08/28/26 06:39	09/09/26 17:05	1
p-Terphenyl-d14 (Surr)	90		47 - 131	08/28/26 06:39	09/09/26 17:05	1

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QC Sample Results

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

Job ID: 380-233071-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: MB 570-791672/1-A

Matrix: Water

Analysis Batch: 794330

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 791672

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.20		0.20	ug/L		08/28/26 06:39	09/02/26 13:16	1
2-Methylnaphthalene	<0.20		0.20	ug/L		08/28/26 06:39	09/02/26 13:16	1
Acenaphthene	<0.20		0.20	ug/L		08/28/26 06:39	09/02/26 13:16	1
Acenaphthylene	<0.20		0.20	ug/L		08/28/26 06:39	09/02/26 13:16	1
Anthracene	<0.20		0.20	ug/L		08/28/26 06:39	09/02/26 13:16	1
Benzo[a]anthracene	<0.20		0.20	ug/L		08/28/26 06:39	09/02/26 13:16	1
Benzo[a]pyrene	<0.20		0.20	ug/L		08/28/26 06:39	09/02/26 13:16	1
Benzo[b]fluoranthene	<0.20		0.20	ug/L		08/28/26 06:39	09/02/26 13:16	1
Benzo[g,h,i]perylene	<0.20		0.20	ug/L		08/28/26 06:39	09/02/26 13:16	1
Benzo[k]fluoranthene	<0.20		0.20	ug/L		08/28/26 06:39	09/02/26 13:16	1
Chrysene	<0.20		0.20	ug/L		08/28/26 06:39	09/02/26 13:16	1
Dibenz(a,h)anthracene	<0.20		0.20	ug/L		08/28/26 06:39	09/02/26 13:16	1
Fluoranthene	<0.20		0.20	ug/L		08/28/26 06:39	09/02/26 13:16	1
Fluorene	<0.20		0.20	ug/L		08/28/26 06:39	09/02/26 13:16	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20	ug/L		08/28/26 06:39	09/02/26 13:16	1
Naphthalene	<0.20		0.20	ug/L		08/28/26 06:39	09/02/26 13:16	1
Phenanthrene	<0.20		0.20	ug/L		08/28/26 06:39	09/02/26 13:16	1
Pyrene	<0.20		0.20	ug/L		08/28/26 06:39	09/02/26 13:16	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	86		28 - 127	08/28/26 06:39	09/02/26 13:16	1
2-Fluorobiphenyl (Surr)	73		31 - 120	08/28/26 06:39	09/02/26 13:16	1
2-Fluorophenol (Surr)	50		17 - 120	08/28/26 06:39	09/02/26 13:16	1
Nitrobenzene-d5 (Surr)	75		27 - 120	08/28/26 06:39	09/02/26 13:16	1
Phenol-d6 (Surr)	31		10 - 120	08/28/26 06:39	09/02/26 13:16	1
p-Terphenyl-d14 (Surr)	85		45 - 120	08/28/26 06:39	09/02/26 13:16	1

Lab Sample ID: LCS 570-791672/2-A

Matrix: Water

Analysis Batch: 794330

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 791672

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	20.0	16.8		ug/L		84	47 - 120
2-Methylnaphthalene	20.0	16.4		ug/L		82	43 - 120
Acenaphthene	20.0	16.9		ug/L		85	60 - 132
Acenaphthylene	20.0	15.6		ug/L		78	54 - 126
Anthracene	20.0	17.5		ug/L		87	43 - 120
Benzo[a]anthracene	20.0	18.6		ug/L		93	42 - 133
Benzo[a]pyrene	20.0	18.6		ug/L		93	32 - 148
Benzo[b]fluoranthene	20.0	19.0		ug/L		95	42 - 140
Benzo[g,h,i]perylene	20.0	25.0		ug/L		125	1 - 195
Benzo[k]fluoranthene	20.0	18.2		ug/L		91	25 - 146
Chrysene	20.0	18.9		ug/L		95	44 - 140
Dibenz(a,h)anthracene	20.0	26.9		ug/L		134	1 - 200
Fluoranthene	20.0	18.5		ug/L		92	43 - 121
Fluorene	20.0	16.9		ug/L		84	70 - 120
Indeno[1,2,3-cd]pyrene	20.0	25.4		ug/L		127	1 - 151
Naphthalene	20.0	17.3		ug/L		86	36 - 120

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QC Sample Results

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

Job ID: 380-233071-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: LCS 570-791672/2-A

Matrix: Water

Analysis Batch: 794330

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 791672

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phenanthrene	20.0	18.2		ug/L		91	65 - 120
Pyrene	20.0	18.7		ug/L		93	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	89		28 - 127
2-Fluorobiphenyl (Surr)	84		31 - 120
2-Fluorophenol (Surr)	65		17 - 120
Nitrobenzene-d5 (Surr)	85		27 - 120
Phenol-d6 (Surr)	41		10 - 120
p-Terphenyl-d14 (Surr)	89		45 - 120

Lab Sample ID: LCSD 570-791672/3-A

Matrix: Water

Analysis Batch: 794330

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 791672

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	20.0	12.5	*1	ug/L		62	47 - 120	30	20
2-Methylnaphthalene	20.0	12.1	*1	ug/L		60	43 - 120	30	20
Acenaphthene	20.0	16.4		ug/L		82	60 - 132	3	29
Acenaphthylene	20.0	16.6		ug/L		83	54 - 126	6	45
Anthracene	20.0	16.5		ug/L		82	43 - 120	6	40
Benzo[a]anthracene	20.0	17.7		ug/L		88	42 - 133	5	32
Benzo[a]pyrene	20.0	18.6		ug/L		93	32 - 148	0	43
Benzo[b]fluoranthene	20.0	17.6		ug/L		88	42 - 140	7	43
Benzo[g,h,i]perylene	20.0	17.7		ug/L		89	1 - 195	34	61
Benzo[k]fluoranthene	20.0	17.1		ug/L		85	25 - 146	7	38
Chrysene	20.0	17.7		ug/L		88	44 - 140	7	53
Dibenz(a,h)anthracene	20.0	18.3		ug/L		92	1 - 200	38	75
Fluoranthene	20.0	17.3		ug/L		87	43 - 121	7	40
Fluorene	20.0	16.9		ug/L		84	70 - 120	0	23
Indeno[1,2,3-cd]pyrene	20.0	17.7		ug/L		89	1 - 151	35	60
Naphthalene	20.0	11.9		ug/L		59	36 - 120	37	39
Phenanthrene	20.0	17.0		ug/L		85	65 - 120	7	24
Pyrene	20.0	18.2		ug/L		91	70 - 120	3	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	84		28 - 127
2-Fluorobiphenyl (Surr)	86		31 - 120
2-Fluorophenol (Surr)	61		17 - 120
Nitrobenzene-d5 (Surr)	64		27 - 120
Phenol-d6 (Surr)	39		10 - 120
p-Terphenyl-d14 (Surr)	86		45 - 120

QC Sample Results

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

Job ID: 380-233071-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: 380-233060-A-1-A MS

Matrix: Water

Analysis Batch: 794330

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 791672

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.19	*1	19.4	14.5		ug/L		75	36 - 120
2-Methylnaphthalene	<0.19	*1	19.4	14.2		ug/L		73	32 - 124
Acenaphthene	<0.19		19.4	14.3		ug/L		74	47 - 145
Acenaphthylene	<0.19		19.4	13.8		ug/L		71	33 - 145
Anthracene	<0.19		19.4	14.5		ug/L		75	27 - 133
Benzo[a]anthracene	<0.19		19.4	16.0		ug/L		82	33 - 143
Benzo[a]pyrene	<0.19		19.4	16.7		ug/L		86	17 - 163
Benzo[b]fluoranthene	<0.19		19.4	15.8		ug/L		81	24 - 159
Benzo[g,h,i]perylene	<0.19		19.4	15.8		ug/L		82	1 - 219
Benzo[k]fluoranthene	<0.19		19.4	15.5		ug/L		80	11 - 162
Chrysene	<0.19		19.4	15.8		ug/L		82	17 - 168
Dibenz(a,h)anthracene	<0.19		19.4	16.4		ug/L		85	1 - 227
Fluoranthene	<0.19		19.4	15.6		ug/L		80	26 - 137
Fluorene	<0.19		19.4	14.5		ug/L		75	59 - 121
Indeno[1,2,3-cd]pyrene	<0.19		19.4	16.1		ug/L		83	1 - 171
Naphthalene	<0.19		19.4	14.1		ug/L		73	21 - 133
Phenanthrene	<0.19		19.4	14.9		ug/L		77	54 - 120
Pyrene	<0.19		19.4	16.3		ug/L		84	52 - 120

Surrogate	MS %Recovery	MS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	77		28 - 127
2-Fluorobiphenyl (Surr)	74		31 - 120
2-Fluorophenol (Surr)	49		17 - 120
Nitrobenzene-d5 (Surr)	72		27 - 120
Phenol-d6 (Surr)	31		10 - 120
p-Terphenyl-d14 (Surr)	79		45 - 120

Lab Sample ID: 380-233060-A-1-B MSD

Matrix: Water

Analysis Batch: 794330

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 791672

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	<0.19	*1	19.3	16.1		ug/L		84	36 - 120	11	30
2-Methylnaphthalene	<0.19	*1	19.3	15.9		ug/L		82	32 - 124	11	30
Acenaphthene	<0.19		19.3	15.4		ug/L		80	47 - 145	8	48
Acenaphthylene	<0.19		19.3	15.2		ug/L		79	33 - 145	9	74
Anthracene	<0.19		19.3	15.5		ug/L		80	27 - 133	7	66
Benzo[a]anthracene	<0.19		19.3	16.9		ug/L		88	33 - 143	6	53
Benzo[a]pyrene	<0.19		19.3	18.1		ug/L		94	17 - 163	8	72
Benzo[b]fluoranthene	<0.19		19.3	17.0		ug/L		88	24 - 159	7	71
Benzo[g,h,i]perylene	<0.19		19.3	17.2		ug/L		89	1 - 219	8	97
Benzo[k]fluoranthene	<0.19		19.3	16.5		ug/L		86	11 - 162	6	63
Chrysene	<0.19		19.3	16.7		ug/L		87	17 - 168	6	87
Dibenz(a,h)anthracene	<0.19		19.3	17.7		ug/L		92	1 - 227	7	126
Fluoranthene	<0.19		19.3	16.7		ug/L		87	26 - 137	7	66
Fluorene	<0.19		19.3	15.9		ug/L		83	59 - 121	9	38
Indeno[1,2,3-cd]pyrene	<0.19		19.3	17.5		ug/L		91	1 - 171	8	99
Naphthalene	<0.19		19.3	16.0		ug/L		83	21 - 133	13	65

Eurofins Pomona

QC Sample Results

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

Job ID: 380-233071-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: 380-233060-A-1-B MSD

Matrix: Water

Analysis Batch: 794330

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 791672

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenanthrene	<0.19		19.3	16.0		ug/L		83	54 - 120	7	39
Pyrene	<0.19		19.3	17.1		ug/L		89	52 - 120	5	49

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	82		28 - 127
2-Fluorobiphenyl (Surr)	81		31 - 120
2-Fluorophenol (Surr)	58		17 - 120
Nitrobenzene-d5 (Surr)	80		27 - 120
Phenol-d6 (Surr)	37		10 - 120
p-Terphenyl-d14 (Surr)	85		45 - 120

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

Lab Sample ID: MB 570-795451/6

Matrix: Water

Analysis Batch: 795451

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			09/04/26 10:59	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		38 - 134		09/04/26 10:59	1

Lab Sample ID: LCS 570-795451/3

Matrix: Water

Analysis Batch: 795451

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (C4-C13)	400	373		ug/L		93	78 - 120

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

Lab Sample ID: LCSD 570-795451/4

Matrix: Water

Analysis Batch: 795451

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (C4-C13)	400	366		ug/L		91	78 - 120	2	10

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	88		38 - 134

QC Sample Results

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

Job ID: 380-233071-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: MRL 570-795451/5

Matrix: Water

Analysis Batch: 795451

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

			Spike	MRL	MRL				%Rec		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (C4-C13)			10.0	13.5		ug/L		135	50 - 150		
Surrogate		MRL	MRL								
	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	89		38 - 134								

Lab Sample ID: 380-233271-B-1 MS

Matrix: Water

Analysis Batch: 795451

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	421		ug/L		105	68 - 122
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	93		38 - 134						

Lab Sample ID: 380-233271-E-1 MSD

Matrix: Water

Analysis Batch: 795451

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (C4-C13)	<10		400	374		ug/L		94	68 - 122	12	18
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	92		38 - 134								

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

Lab Sample ID: MB 570-791434/1-A

Matrix: Water

Analysis Batch: 796133

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 791434

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Diesel Range Organics (C10-C24)	<25		25	ug/L		08/27/26 15:57	09/06/26 01:02	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		08/27/26 15:57	09/06/26 01:02	1
C8-C18	<25		25	ug/L		08/27/26 15:57	09/06/26 01:02	1
Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac		
%Recovery	Qualifier							
n-Octacosane (Surr)	83		60 - 130	08/27/26 15:57	09/06/26 01:02	1		

Lab Sample ID: LCS 570-791434/2-A

Matrix: Water

Analysis Batch: 796133

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 791434

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
C10-C28	1600	1110	^3+	ug/L		69	56 - 127

Eurofins Pomona

QC Sample Results

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

Job ID: 380-233071-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: LCS 570-791434/2-A

Matrix: Water

Analysis Batch: 796133

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 791434

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
n-Octacosane (Surr)	93		60 - 130

Lab Sample ID: LCSD 570-791434/3-A

Matrix: Water

Analysis Batch: 796133

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 791434

	Spike	LCSD	LCSD						%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit			
C10-C28	1600	1150	^3+	ug/L		72	56 - 127	3	23			

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
n-Octacosane (Surr)	91		60 - 130

Lab Sample ID: 380-233060-C-1-C MS

Matrix: Water

Analysis Batch: 796133

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 791434

	Sample	Sample	Spike	MS	MS				%Rec			
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
C10-C28	<26	^3+	1630	1020	F1	ug/L		63	70 - 130			

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
n-Octacosane (Surr)	82		60 - 130

Lab Sample ID: 380-233060-C-1-D MSD

Matrix: Water

Analysis Batch: 796133

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 791434

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
C10-C28	<26	^3+	1670	1160	F1	ug/L		69	70 - 130	12	20	

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
n-Octacosane (Surr)	92		60 - 130

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

Lab Sample ID: MRL 570-791434/4-A

Matrix: Water

Analysis Batch: 796453

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 791434

	Spike	MRL	MRL						%Rec			
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit			
C10-C28 - RA	0.0200	0.0337	^3+	mg/L		169	50 - 150					

	MRL	MRL	
Surrogate	%Recovery	Qualifier	Limits
n-Octacosane (Surr) - RA	105		60 - 130

QC Association Summary

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

Job ID: 380-233071-1
SDG: Weekly: Aiea Gulch Wells Pump 1

GC/MS Semi VOA

Prep Batch: 249209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-233071-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	525.2	
MB 380-249209/21-A	Method Blank	Total/NA	Water	525.2	
LCS 380-249209/23-A	Lab Control Sample	Total/NA	Water	525.2	
LCSD 380-249209/24-A	Lab Control Sample Dup	Total/NA	Water	525.2	
MRL 380-249209/22-A	Lab Control Sample	Total/NA	Water	525.2	
380-232715-M-1-A MS	Matrix Spike	Total/NA	Water	525.2	
380-233049-I-1-A DU	Duplicate	Total/NA	Water	525.2	

Analysis Batch: 249268

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-233071-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	525.2	249209
MB 380-249209/21-A	Method Blank	Total/NA	Water	525.2	249209
LCS 380-249209/23-A	Lab Control Sample	Total/NA	Water	525.2	249209
LCSD 380-249209/24-A	Lab Control Sample Dup	Total/NA	Water	525.2	249209
MRL 380-249209/22-A	Lab Control Sample	Total/NA	Water	525.2	249209
380-232715-M-1-A MS	Matrix Spike	Total/NA	Water	525.2	249209
380-233049-I-1-A DU	Duplicate	Total/NA	Water	525.2	249209

Prep Batch: 791672

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-233071-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	625.1	
MB 570-791672/1-A	Method Blank	Total/NA	Water	625.1	
LCS 570-791672/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 570-791672/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	
380-233060-A-1-A MS	Matrix Spike	Total/NA	Water	625.1	
380-233060-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	625.1	

Analysis Batch: 794330

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-233071-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	625.1 SIM	791672
MB 570-791672/1-A	Method Blank	Total/NA	Water	625.1 SIM	791672
LCS 570-791672/2-A	Lab Control Sample	Total/NA	Water	625.1 SIM	791672
LCSD 570-791672/3-A	Lab Control Sample Dup	Total/NA	Water	625.1 SIM	791672
380-233060-A-1-A MS	Matrix Spike	Total/NA	Water	625.1 SIM	791672
380-233060-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	625.1 SIM	791672

Analysis Batch: 797504

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-233071-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	625.1	791672
MB 570-791672/1-A	Method Blank	Total/NA	Water	625.1	791672

GC VOA

Analysis Batch: 795451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-233071-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	8015B GRO LL	
380-233071-2	TB: AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Water	8015B GRO LL	
MB 570-795451/6	Method Blank	Total/NA	Water	8015B GRO LL	
LCS 570-795451/3	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-795451/4	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	
MRL 570-795451/5	Lab Control Sample	Total/NA	Water	8015B GRO LL	

Eurofins Pomona

QC Association Summary

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

Job ID: 380-233071-1
SDG: Weekly: Aiea Gulch Wells Pump 1

GC VOA (Continued)

Analysis Batch: 795451 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-233271-B-1 MS	Matrix Spike	Total/NA	Water	8015B GRO LL	
380-233271-E-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8015B GRO LL	

GC Semi VOA

Prep Batch: 791434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-233071-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	3510C	
MB 570-791434/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-791434/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-791434/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-791434/4-A - RA	Lab Control Sample	Total/NA	Water	3510C	
380-233060-C-1-C MS	Matrix Spike	Total/NA	Water	3510C	
380-233060-C-1-D MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

Analysis Batch: 796133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-233071-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	8015B	791434
MB 570-791434/1-A	Method Blank	Total/NA	Water	8015B	791434
LCS 570-791434/2-A	Lab Control Sample	Total/NA	Water	8015B	791434
LCSD 570-791434/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	791434
380-233060-C-1-C MS	Matrix Spike	Total/NA	Water	8015B	791434
380-233060-C-1-D MSD	Matrix Spike Duplicate	Total/NA	Water	8015B	791434

Analysis Batch: 796453

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MRL 570-791434/4-A - RA	Lab Control Sample	Total/NA	Water	8015B	791434

Lab Chronicle

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

Job ID: 380-233071-1
SDG: Weekly: Aiea Gulch Wells Pump 1

**Client Sample ID: AIEA GULCH WELLS PUMP 1
(331-201-TP071)**

Lab Sample ID: 380-233071-1

Date Collected: 08/24/26 11:00

Matrix: Drinking Water

Date Received: 08/26/26 10:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			249209	OTM3	EA POM	08/27/26 08:51
Total/NA	Analysis	525.2		1	249268	UPAC	EA POM	08/27/26 22:06
Total/NA	Prep	625.1			791672	H1SH	EET CAL 4	08/28/26 06:39
Total/NA	Analysis	625.1		1	797504	S4EA	EET CAL 4	09/09/26 20:03
Total/NA	Prep	625.1			791672	H1SH	EET CAL 4	08/28/26 06:39
Total/NA	Analysis	625.1 SIM		1	794330	PQS1	EET CAL 4	09/02/26 18:27
Total/NA	Analysis	8015B GRO LL		1	795451	7CF2	EET CAL 4	09/04/26 18:05
Total/NA	Prep	3510C			791434	ATRL	EET CAL 4	08/27/26 15:57
Total/NA	Analysis	8015B		1	796133	H6FE	EET CAL 4	09/06/26 05:21

**Client Sample ID: TB: AIEA GULCH WELLS PUMP 1
(331-201-TP071)**

Lab Sample ID: 380-233071-2

Date Collected: 08/24/26 11:00

Matrix: Water

Date Received: 08/26/26 10:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	795451	7CF2	EET CAL 4	09/04/26 12:44

Laboratory References:

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

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

Accreditation/Certification Summary

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

Job ID: 380-233071-1
SDG: Weekly: Aiea Gulch Wells Pump 1

Laboratory: Eurofins Pomona

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

Authority	Program	Identification Number	Expiration Date
Hawaii	State	CA00006	09-03-26
The following analytes are included in this report, but the laboratory is not certified by Hawaii State CA00006. This list may include analytes for which the agency does not offer certification :			
Analysis Method	Prep Method	Matrix	Analyte
525.2	525.2	Drinking Water	1-Methylnaphthalene
525.2	525.2	Drinking Water	2,4'-DDD
525.2	525.2	Drinking Water	2,4'-DDE
525.2	525.2	Drinking Water	2,4'-DDT
525.2	525.2	Drinking Water	2,4-Dinitrotoluene
525.2	525.2	Drinking Water	2,6-Dinitrotoluene
525.2	525.2	Drinking Water	2-Methylnaphthalene
525.2	525.2	Drinking Water	4,4'-DDD
525.2	525.2	Drinking Water	4,4'-DDE
525.2	525.2	Drinking Water	4,4'-DDT
525.2	525.2	Drinking Water	Acetochlor
525.2	525.2	Drinking Water	alpha-BHC
525.2	525.2	Drinking Water	alpha-Chlordane
525.2	525.2	Drinking Water	beta-BHC
525.2	525.2	Drinking Water	Chlorobenzilate
525.2	525.2	Drinking Water	Chloroneb
525.2	525.2	Drinking Water	Chlorothalonil (Draconil, Bravo)
525.2	525.2	Drinking Water	Chlorpyrifos
525.2	525.2	Drinking Water	delta-BHC
525.2	525.2	Drinking Water	Diclorvos (DDVP)
525.2	525.2	Drinking Water	Endosulfan I (Alpha)
525.2	525.2	Drinking Water	Endosulfan II (Beta)
525.2	525.2	Drinking Water	Endosulfan sulfate
525.2	525.2	Drinking Water	Endrin aldehyde
525.2	525.2	Drinking Water	EPTC
525.2	525.2	Drinking Water	gamma-Chlordane
525.2	525.2	Drinking Water	Isophorone
525.2	525.2	Drinking Water	Malathion
525.2	525.2	Drinking Water	Parathion
525.2	525.2	Drinking Water	Pendimethalin (Penoxaline)
525.2	525.2	Drinking Water	Terbacil
525.2	525.2	Drinking Water	Terbutylazine
525.2	525.2	Drinking Water	Total Permethrin (mixed isomers)
525.2	525.2	Drinking Water	trans-Nonachlor

Laboratory: Eurofins Calscience

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

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	7296.01	11-30-26
A2LA	ISO/IEC 17025	7296.01	11-30-26
Alaska (UST)	State	25-005	03-02-27
Arizona	State	AZ0830	11-16-26
California	Los Angeles County Sanitation Districts	9257304	07-31-28
California	SCAQMD LAP	17LA0919	11-30-26

Eurofins Pomona

Accreditation/Certification Summary

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

Job ID: 380-233071-1
SDG: Weekly: Aiea Gulch Wells Pump 1

Laboratory: Eurofins Calscience (Continued)

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

Authority	Program	Identification Number	Expiration Date
California	State	3082	07-31-28
Kansas	NELAP	E-10420	07-31-27
Nevada	State	CA00111	07-31-27
Oregon	NELAP	4175	02-02-27
Texas	NELAP	T104704499	07-31-27
USDA	US Federal Programs	525-23-159-97150	09-30-26
Utah	NELAP	CA00111	02-28-27
Washington	State	C916	10-12-26

Method Summary

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

Job ID: 380-233071-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Protocol References:

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

EPA = US Environmental Protection Agency

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

Laboratory References:

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

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

Sample Summary

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

Job ID: 380-233071-1
SDG: Weekly: Aiea Gulch Wells Pump 1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
380-233071-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Drinking Water	08/24/26 11:00	08/26/26 10:12	Hawaii
380-233071-2	TB: AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Water	08/24/26 11:00	08/26/26 10:12	Hawaii

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- 16

Chain of Custody Record

 eurofins[illegible]

[illegible]

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-233071-1

SDG Number: Weekly: Aiea Gulch Wells Pump 1

Login Number: 233071

List Number: 1

Creator: Edrosa, Rey

List Source: Eurofins Pomona

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

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-233071-1

SDG Number: Weekly: Aiea Gulch Wells Pump 1

Login Number: 233071

List Source: Eurofins Calscience

List Number: 2

List Creation: 08/26/26 07:14 PM

Creator: Khana, Piyush

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