

# ANALYTICAL REPORT

## PREPARED FOR

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## JOB DESCRIPTION

RED-HILL  
Weekly: Aiea Gulch Pump 1/Pump 2  
RUSH Weekly Red Hill

## JOB NUMBER

380-192330-1

# 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: 380-192330-1  
SDG: Weekly: Aiea Gulch Pump 1/Pump 2

## Qualifiers

### GC/MS Semi VOA

Qualifier	Qualifier Description
F2	MS/MSD 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 Semi VOA TICs

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

### GC VOA

Qualifier	Qualifier Description
*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 Semi VOA

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

## Glossary

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

# Case Narrative

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

Job ID: 380-192330-1

**Job ID: 380-192330-1**

**Eurofins Pomona**

## Job Narrative 380-192330-1

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

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

### Receipt

The samples were received on 1/14/2026 9:38 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 3.3°C and 3.6°C.

### GC/MS Semi VOA

Method 625.1: The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch. Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 570-683542.

Method 625.1 SIM: The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 570-683542.

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

### Gasoline Range Organics

Method 8015B GRO LL: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 570-683470 recovered outside control limits for the following analytes: Gasoline Range Organics (C4-C13). Laboratory control sample / laboratory control sample duplicate (LCS/LCSD) percent recovery is in control for affected analytes.

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

### Diesel Range Organics

Method 8015B: Surrogate recovery was outside acceptance limits for the following matrix spike/matrix spike duplicate (MS/MSD) sample: (380-192922-A-1-B MSD). The parent sample's surrogate recovery was within limits. The MS/MSD sample has been qualified and reported.

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

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# Detection Summary

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

Job ID: 380-192330-1  
SDG: Weekly: Aiea Gulch Pump 1/Pump 2

**Client Sample ID: AIEA GULCH WELLS PUMP 1  
(331-201-TP071)**  
PWSID Number: HI0000331

**Lab Sample ID: 380-192330-1**

No Detections.

**Client Sample ID: AIEA GULCH WELLS PUMP 2  
(331-202-TP072)**  
PWSID Number: HI0000331

**Lab Sample ID: 380-192330-2**

No Detections.

**Client Sample ID: TB:AIEA GULCH WELLS P1 (331-201-TP071)**

**Lab Sample ID: 380-192330-3**

No Detections.

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

**Lab Sample ID: 380-192330-4**

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: 380-192330-1  
SDG: Weekly: Aiea Gulch Pump 1/Pump 2

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

**Lab Sample ID: 380-192330-1**

**Date Collected: 01/12/26 10:00**

**Matrix: Drinking Water**

**Date Received: 01/14/26 09:38**

**PWSID Number: HI0000331**

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.099		0.099	ug/L		01/19/26 09:13	01/20/26 18:10	1
2,4'-DDD	<0.099		0.099	ug/L		01/19/26 09:13	01/20/26 18:10	1
2,4'-DDE	<0.099		0.099	ug/L		01/19/26 09:13	01/20/26 18:10	1
2,4'-DDT	<0.099		0.099	ug/L		01/19/26 09:13	01/20/26 18:10	1
2,4-Dinitrotoluene	<0.099		0.099	ug/L		01/19/26 09:13	01/20/26 18:10	1
2,6-Dinitrotoluene	<0.099		0.099	ug/L		01/19/26 09:13	01/20/26 18:10	1
2-Methylnaphthalene	<0.099		0.099	ug/L		01/19/26 09:13	01/20/26 18:10	1
4,4'-DDD	<0.099		0.099	ug/L		01/19/26 09:13	01/20/26 18:10	1
4,4'-DDE	<0.099		0.099	ug/L		01/19/26 09:13	01/20/26 18:10	1
4,4'-DDT	<0.099		0.099	ug/L		01/19/26 09:13	01/20/26 18:10	1
Acenaphthene	<0.099		0.099	ug/L		01/19/26 09:13	01/20/26 18:10	1
Acenaphthylene	<0.099		0.099	ug/L		01/19/26 09:13	01/20/26 18:10	1
Acetochlor	<0.099		0.099	ug/L		01/19/26 09:13	01/20/26 18:10	1
Alachlor	<0.049		0.049	ug/L		01/19/26 09:13	01/20/26 18:10	1
alpha-BHC	<0.099		0.099	ug/L		01/19/26 09:13	01/20/26 18:10	1
alpha-Chlordane	<0.049		0.049	ug/L		01/19/26 09:13	01/20/26 18:10	1
Anthracene	<0.020		0.020	ug/L		01/19/26 09:13	01/20/26 18:10	1
Atrazine	<0.049		0.049	ug/L		01/19/26 09:13	01/20/26 18:10	1
Benz(a)anthracene	<0.049		0.049	ug/L		01/19/26 09:13	01/20/26 18:10	1
Benzo[a]pyrene	<0.020		0.020	ug/L		01/19/26 09:13	01/20/26 18:10	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		01/19/26 09:13	01/20/26 18:10	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		01/19/26 09:13	01/20/26 18:10	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		01/19/26 09:13	01/20/26 18:10	1
beta-BHC	<0.099		0.099	ug/L		01/19/26 09:13	01/20/26 18:10	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		01/19/26 09:13	01/20/26 18:10	1
Bromacil	<0.099		0.099	ug/L		01/19/26 09:13	01/20/26 18:10	1
Butachlor	<0.049		0.049	ug/L		01/19/26 09:13	01/20/26 18:10	1
Butylbenzylphthalate	<0.49		0.49	ug/L		01/19/26 09:13	01/20/26 18:10	1
Chlorobenzilate	<0.099		0.099	ug/L		01/19/26 09:13	01/20/26 18:10	1
Chloroneb	<0.099		0.099	ug/L		01/19/26 09:13	01/20/26 18:10	1
Chlorothalonil (Draconil, Bravo)	<0.099		0.099	ug/L		01/19/26 09:13	01/20/26 18:10	1
Chlorpyrifos	<0.049		0.049	ug/L		01/19/26 09:13	01/20/26 18:10	1
Chrysene	<0.020		0.020	ug/L		01/19/26 09:13	01/20/26 18:10	1
delta-BHC	<0.099		0.099	ug/L		01/19/26 09:13	01/20/26 18:10	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		01/19/26 09:13	01/20/26 18:10	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		01/19/26 09:13	01/20/26 18:10	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		01/19/26 09:13	01/20/26 18:10	1
Dieldrin	<0.0099		0.0099	ug/L		01/19/26 09:13	01/20/26 18:10	1
Diethylphthalate	<0.49		0.49	ug/L		01/19/26 09:13	01/20/26 18:10	1
Dimethylphthalate	<0.49		0.49	ug/L		01/19/26 09:13	01/20/26 18:10	1
Di-n-butyl phthalate	<0.99		0.99	ug/L		01/19/26 09:13	01/20/26 18:10	1
Di-n-octyl phthalate	<0.099		0.099	ug/L		01/19/26 09:13	01/20/26 18:10	1
Endosulfan I (Alpha)	<0.099		0.099	ug/L		01/19/26 09:13	01/20/26 18:10	1
Endosulfan II (Beta)	<0.099		0.099	ug/L		01/19/26 09:13	01/20/26 18:10	1
Endosulfan sulfate	<0.099		0.099	ug/L		01/19/26 09:13	01/20/26 18:10	1
Endrin	<0.0099		0.0099	ug/L		01/19/26 09:13	01/20/26 18:10	1
Endrin aldehyde	<0.099		0.099	ug/L		01/19/26 09:13	01/20/26 18:10	1
EPTC	<0.099		0.099	ug/L		01/19/26 09:13	01/20/26 18:10	1

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# Client Sample Results

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

Job ID: 380-192330-1  
SDG: Weekly: Aiea Gulch Pump 1/Pump 2

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

**Lab Sample ID: 380-192330-1**

**Date Collected: 01/12/26 10:00**

**Matrix: Drinking Water**

**Date Received: 01/14/26 09:38**

**PWSID Number: HI0000331**

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.099		0.099	ug/L		01/19/26 09:13	01/20/26 18:10	1
Fluorene	<0.049		0.049	ug/L		01/19/26 09:13	01/20/26 18:10	1
gamma-Chlordane	<0.049		0.049	ug/L		01/19/26 09:13	01/20/26 18:10	1
Heptachlor	<0.0099		0.0099	ug/L		01/19/26 09:13	01/20/26 18:10	1
Heptachlor epoxide (isomer B)	<0.0099		0.0099	ug/L		01/19/26 09:13	01/20/26 18:10	1
Hexachlorobenzene	<0.049		0.049	ug/L		01/19/26 09:13	01/20/26 18:10	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		01/19/26 09:13	01/20/26 18:10	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		01/19/26 09:13	01/20/26 18:10	1
Isophorone	<0.099		0.099	ug/L		01/19/26 09:13	01/20/26 18:10	1
Lindane	<0.0099		0.0099	ug/L		01/19/26 09:13	01/20/26 18:10	1
Malathion	<0.099		0.099	ug/L		01/19/26 09:13	01/20/26 18:10	1
Methoxychlor	<0.049		0.049	ug/L		01/19/26 09:13	01/20/26 18:10	1
Metolachlor	<0.049		0.049	ug/L		01/19/26 09:13	01/20/26 18:10	1
Molinate	<0.099		0.099	ug/L		01/19/26 09:13	01/20/26 18:10	1
Naphthalene	<0.099		0.099	ug/L		01/19/26 09:13	01/20/26 18:10	1
Parathion	<0.099		0.099	ug/L		01/19/26 09:13	01/20/26 18:10	1
Pendimethalin (Penoxaline)	<0.099		0.099	ug/L		01/19/26 09:13	01/20/26 18:10	1
Phenanthrene	<0.040		0.040	ug/L		01/19/26 09:13	01/20/26 18:10	1
Propachlor	<0.049		0.049	ug/L		01/19/26 09:13	01/20/26 18:10	1
Pyrene	<0.049		0.049	ug/L		01/19/26 09:13	01/20/26 18:10	1
Simazine	<0.049		0.049	ug/L		01/19/26 09:13	01/20/26 18:10	1
Terbacil	<0.099		0.099	ug/L		01/19/26 09:13	01/20/26 18:10	1
Terbutylazine	<0.099		0.099	ug/L		01/19/26 09:13	01/20/26 18:10	1
Thiobencarb	<0.099		0.099	ug/L		01/19/26 09:13	01/20/26 18:10	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		01/19/26 09:13	01/20/26 18:10	1
trans-Nonachlor	<0.049		0.049	ug/L		01/19/26 09:13	01/20/26 18:10	1
Trifluralin	<0.099		0.099	ug/L		01/19/26 09:13	01/20/26 18:10	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Aldrin	0.023		ug/L		6.47	309-00-2	01/19/26 09:13	01/20/26 18:10	1
unknown	4.2	T J	ug/L		13.54	N/A	01/19/26 09:13	01/20/26 18:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	95		70 - 130	01/19/26 09:13	01/20/26 18:10	1
Perylene-d12	94		70 - 130	01/19/26 09:13	01/20/26 18:10	1
Triphenylphosphate	109		70 - 130	01/19/26 09:13	01/20/26 18:10	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.20		0.20	ug/L		01/16/26 19:05	01/20/26 08:16	1
2-Methylnaphthalene	<0.20		0.20	ug/L		01/16/26 19:05	01/20/26 08:16	1
Acenaphthene	<0.20		0.20	ug/L		01/16/26 19:05	01/20/26 08:16	1
Acenaphthylene	<0.20		0.20	ug/L		01/16/26 19:05	01/20/26 08:16	1
Anthracene	<0.20		0.20	ug/L		01/16/26 19:05	01/20/26 08:16	1
Benzo[a]anthracene	<0.20		0.20	ug/L		01/16/26 19:05	01/20/26 08:16	1
Benzo[a]pyrene	<0.20		0.20	ug/L		01/16/26 19:05	01/20/26 08:16	1
Benzo[b]fluoranthene	<0.20		0.20	ug/L		01/16/26 19:05	01/20/26 08:16	1
Benzo[g,h,i]perylene	<0.20		0.20	ug/L		01/16/26 19:05	01/20/26 08:16	1
Benzo[k]fluoranthene	<0.20		0.20	ug/L		01/16/26 19:05	01/20/26 08:16	1

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# Client Sample Results

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

Job ID: 380-192330-1  
SDG: Weekly: Aiea Gulch Pump 1/Pump 2

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

**Lab Sample ID: 380-192330-1**

Date Collected: 01/12/26 10:00  
Date Received: 01/14/26 09:38

Matrix: Drinking Water  
PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.20		0.20	ug/L		01/16/26 19:05	01/20/26 08:16	1
Dibenz(a,h)anthracene	<0.20		0.20	ug/L		01/16/26 19:05	01/20/26 08:16	1
Fluoranthene	<0.20		0.20	ug/L		01/16/26 19:05	01/20/26 08:16	1
Fluorene	<0.20		0.20	ug/L		01/16/26 19:05	01/20/26 08:16	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20	ug/L		01/16/26 19:05	01/20/26 08:16	1
Naphthalene	<0.20		0.20	ug/L		01/16/26 19:05	01/20/26 08:16	1
Phenanthrene	<0.20		0.20	ug/L		01/16/26 19:05	01/20/26 08:16	1
Pyrene	<0.20		0.20	ug/L		01/16/26 19:05	01/20/26 08:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	88		28 - 127			01/16/26 19:05	01/20/26 08:16	1
2-Fluorobiphenyl (Surr)	79		31 - 120			01/16/26 19:05	01/20/26 08:16	1
2-Fluorophenol (Surr)	54		17 - 120			01/16/26 19:05	01/20/26 08:16	1
Nitrobenzene-d5 (Surr)	82		27 - 120			01/16/26 19:05	01/20/26 08:16	1
Phenol-d6 (Surr)	35		10 - 120			01/16/26 19:05	01/20/26 08:16	1
p-Terphenyl-d14 (Surr)	77		45 - 120			01/16/26 19:05	01/20/26 08:16	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
3-Penten-2-one, 4-methyl-	13	T J N	ug/L		1.88	141-79-7	01/16/26 19:05	01/20/26 10:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	89		33 - 139				01/16/26 19:05	01/20/26 10:05	1
2-Fluorobiphenyl (Surr)	99		33 - 126				01/16/26 19:05	01/20/26 10:05	1
2-Fluorophenol (Surr)	70		12 - 120				01/16/26 19:05	01/20/26 10:05	1
Nitrobenzene-d5 (Surr)	108		36 - 120				01/16/26 19:05	01/20/26 10:05	1
Phenol-d6 (Surr)	43		10 - 120				01/16/26 19:05	01/20/26 10:05	1
p-Terphenyl-d14 (Surr)	114		47 - 131				01/16/26 19:05	01/20/26 10:05	1

**Method: SW846 8015B GRO LL - Gasoline Range Organics - (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	<10		10	ug/L			01/17/26 00:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		38 - 134				01/17/26 00:34	1

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

**Lab Sample ID: 380-192330-2**

Date Collected: 01/12/26 10:30  
Date Received: 01/14/26 09:38

Matrix: Drinking Water  
PWSID Number: HI0000331

**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		01/19/26 09:13	01/20/26 18:30	1
2,4'-DDD	<0.098		0.098	ug/L		01/19/26 09:13	01/20/26 18:30	1
2,4'-DDE	<0.098		0.098	ug/L		01/19/26 09:13	01/20/26 18:30	1
2,4'-DDT	<0.098		0.098	ug/L		01/19/26 09:13	01/20/26 18:30	1
2,4-Dinitrotoluene	<0.098		0.098	ug/L		01/19/26 09:13	01/20/26 18:30	1
2,6-Dinitrotoluene	<0.098		0.098	ug/L		01/19/26 09:13	01/20/26 18:30	1

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# Client Sample Results

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

Job ID: 380-192330-1  
SDG: Weekly: Aiea Gulch Pump 1/Pump 2

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

**Lab Sample ID: 380-192330-2**

**Date Collected: 01/12/26 10:30**

**Matrix: Drinking Water**

**Date Received: 01/14/26 09:38**

**PWSID Number: HI0000331**

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	<0.098		0.098	ug/L		01/19/26 09:13	01/20/26 18:30	1
4,4'-DDD	<0.098		0.098	ug/L		01/19/26 09:13	01/20/26 18:30	1
4,4'-DDE	<0.098		0.098	ug/L		01/19/26 09:13	01/20/26 18:30	1
4,4'-DDT	<0.098		0.098	ug/L		01/19/26 09:13	01/20/26 18:30	1
Acenaphthene	<0.098		0.098	ug/L		01/19/26 09:13	01/20/26 18:30	1
Acenaphthylene	<0.098		0.098	ug/L		01/19/26 09:13	01/20/26 18:30	1
Acetochlor	<0.098		0.098	ug/L		01/19/26 09:13	01/20/26 18:30	1
Alachlor	<0.049		0.049	ug/L		01/19/26 09:13	01/20/26 18:30	1
alpha-BHC	<0.098		0.098	ug/L		01/19/26 09:13	01/20/26 18:30	1
alpha-Chlordane	<0.049		0.049	ug/L		01/19/26 09:13	01/20/26 18:30	1
Anthracene	<0.020		0.020	ug/L		01/19/26 09:13	01/20/26 18:30	1
Atrazine	<0.049		0.049	ug/L		01/19/26 09:13	01/20/26 18:30	1
Benz(a)anthracene	<0.049		0.049	ug/L		01/19/26 09:13	01/20/26 18:30	1
Benzo[a]pyrene	<0.020		0.020	ug/L		01/19/26 09:13	01/20/26 18:30	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		01/19/26 09:13	01/20/26 18:30	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		01/19/26 09:13	01/20/26 18:30	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		01/19/26 09:13	01/20/26 18:30	1
beta-BHC	<0.098		0.098	ug/L		01/19/26 09:13	01/20/26 18:30	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		01/19/26 09:13	01/20/26 18:30	1
Bromacil	<0.098		0.098	ug/L		01/19/26 09:13	01/20/26 18:30	1
Butachlor	<0.049		0.049	ug/L		01/19/26 09:13	01/20/26 18:30	1
Butylbenzylphthalate	<0.49		0.49	ug/L		01/19/26 09:13	01/20/26 18:30	1
Chlorobenzilate	<0.098		0.098	ug/L		01/19/26 09:13	01/20/26 18:30	1
Chloroneb	<0.098		0.098	ug/L		01/19/26 09:13	01/20/26 18:30	1
Chlorothalonil (Draconil, Bravo)	<0.098		0.098	ug/L		01/19/26 09:13	01/20/26 18:30	1
Chlorpyrifos	<0.049		0.049	ug/L		01/19/26 09:13	01/20/26 18:30	1
Chrysene	<0.020		0.020	ug/L		01/19/26 09:13	01/20/26 18:30	1
delta-BHC	<0.098		0.098	ug/L		01/19/26 09:13	01/20/26 18:30	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		01/19/26 09:13	01/20/26 18:30	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		01/19/26 09:13	01/20/26 18:30	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		01/19/26 09:13	01/20/26 18:30	1
Dieldrin	<0.0098		0.0098	ug/L		01/19/26 09:13	01/20/26 18:30	1
Diethylphthalate	<0.49		0.49	ug/L		01/19/26 09:13	01/20/26 18:30	1
Dimethylphthalate	<0.49		0.49	ug/L		01/19/26 09:13	01/20/26 18:30	1
Di-n-butyl phthalate	<0.98		0.98	ug/L		01/19/26 09:13	01/20/26 18:30	1
Di-n-octyl phthalate	<0.098		0.098	ug/L		01/19/26 09:13	01/20/26 18:30	1
Endosulfan I (Alpha)	<0.098		0.098	ug/L		01/19/26 09:13	01/20/26 18:30	1
Endosulfan II (Beta)	<0.098		0.098	ug/L		01/19/26 09:13	01/20/26 18:30	1
Endosulfan sulfate	<0.098		0.098	ug/L		01/19/26 09:13	01/20/26 18:30	1
Endrin	<0.0098		0.0098	ug/L		01/19/26 09:13	01/20/26 18:30	1
Endrin aldehyde	<0.098		0.098	ug/L		01/19/26 09:13	01/20/26 18:30	1
EPTC	<0.098		0.098	ug/L		01/19/26 09:13	01/20/26 18:30	1
Fluoranthene	<0.098		0.098	ug/L		01/19/26 09:13	01/20/26 18:30	1
Fluorene	<0.049		0.049	ug/L		01/19/26 09:13	01/20/26 18:30	1
gamma-Chlordane	<0.049		0.049	ug/L		01/19/26 09:13	01/20/26 18:30	1
Heptachlor	<0.0098		0.0098	ug/L		01/19/26 09:13	01/20/26 18:30	1
Heptachlor epoxide (isomer B)	<0.0098		0.0098	ug/L		01/19/26 09:13	01/20/26 18:30	1
Hexachlorobenzene	<0.049		0.049	ug/L		01/19/26 09:13	01/20/26 18:30	1

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# Client Sample Results

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

Job ID: 380-192330-1  
SDG: Weekly: Aiea Gulch Pump 1/Pump 2

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

**Lab Sample ID: 380-192330-2**

Date Collected: 01/12/26 10:30  
Date Received: 01/14/26 09:38

Matrix: Drinking Water  
PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		01/19/26 09:13	01/20/26 18:30	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		01/19/26 09:13	01/20/26 18:30	1
Isophorone	<0.098		0.098	ug/L		01/19/26 09:13	01/20/26 18:30	1
Lindane	<0.0098		0.0098	ug/L		01/19/26 09:13	01/20/26 18:30	1
Malathion	<0.098		0.098	ug/L		01/19/26 09:13	01/20/26 18:30	1
Methoxychlor	<0.049		0.049	ug/L		01/19/26 09:13	01/20/26 18:30	1
Metolachlor	<0.049		0.049	ug/L		01/19/26 09:13	01/20/26 18:30	1
Molinate	<0.098		0.098	ug/L		01/19/26 09:13	01/20/26 18:30	1
Naphthalene	<0.098		0.098	ug/L		01/19/26 09:13	01/20/26 18:30	1
Parathion	<0.098		0.098	ug/L		01/19/26 09:13	01/20/26 18:30	1
Pendimethalin (Penoxaline)	<0.098		0.098	ug/L		01/19/26 09:13	01/20/26 18:30	1
Phenanthrene	<0.039		0.039	ug/L		01/19/26 09:13	01/20/26 18:30	1
Propachlor	<0.049		0.049	ug/L		01/19/26 09:13	01/20/26 18:30	1
Pyrene	<0.049		0.049	ug/L		01/19/26 09:13	01/20/26 18:30	1
Simazine	<0.049		0.049	ug/L		01/19/26 09:13	01/20/26 18:30	1
Terbacil	<0.098		0.098	ug/L		01/19/26 09:13	01/20/26 18:30	1
Terbutylazine	<0.098		0.098	ug/L		01/19/26 09:13	01/20/26 18:30	1
Thiobencarb	<0.098		0.098	ug/L		01/19/26 09:13	01/20/26 18:30	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		01/19/26 09:13	01/20/26 18:30	1
trans-Nonachlor	<0.049		0.049	ug/L		01/19/26 09:13	01/20/26 18:30	1
Trifluralin	<0.098		0.098	ug/L		01/19/26 09:13	01/20/26 18:30	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	01/19/26 09:13	01/20/26 18:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	94		70 - 130	01/19/26 09:13	01/20/26 18:30	1
Perylene-d12	96		70 - 130	01/19/26 09:13	01/20/26 18:30	1
Triphenylphosphate	112		70 - 130	01/19/26 09:13	01/20/26 18:30	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.19		0.19	ug/L		01/16/26 19:05	01/20/26 08:38	1
2-Methylnaphthalene	<0.19		0.19	ug/L		01/16/26 19:05	01/20/26 08:38	1
Acenaphthene	<0.19		0.19	ug/L		01/16/26 19:05	01/20/26 08:38	1
Acenaphthylene	<0.19		0.19	ug/L		01/16/26 19:05	01/20/26 08:38	1
Anthracene	<0.19		0.19	ug/L		01/16/26 19:05	01/20/26 08:38	1
Benzo[a]anthracene	<0.19		0.19	ug/L		01/16/26 19:05	01/20/26 08:38	1
Benzo[a]pyrene	<0.19		0.19	ug/L		01/16/26 19:05	01/20/26 08:38	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		01/16/26 19:05	01/20/26 08:38	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		01/16/26 19:05	01/20/26 08:38	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		01/16/26 19:05	01/20/26 08:38	1
Chrysene	<0.19		0.19	ug/L		01/16/26 19:05	01/20/26 08:38	1
Dibenz(a,h)anthracene	<0.19		0.19	ug/L		01/16/26 19:05	01/20/26 08:38	1
Fluoranthene	<0.19		0.19	ug/L		01/16/26 19:05	01/20/26 08:38	1
Fluorene	<0.19		0.19	ug/L		01/16/26 19:05	01/20/26 08:38	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		01/16/26 19:05	01/20/26 08:38	1
Naphthalene	<0.19		0.19	ug/L		01/16/26 19:05	01/20/26 08:38	1
Phenanthrene	<0.19		0.19	ug/L		01/16/26 19:05	01/20/26 08:38	1

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# Client Sample Results

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

Job ID: 380-192330-1  
SDG: Weekly: Aiea Gulch Pump 1/Pump 2

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

**Lab Sample ID: 380-192330-2**

Date Collected: 01/12/26 10:30  
Date Received: 01/14/26 09:38

Matrix: Drinking Water  
PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	<0.19		0.19	ug/L		01/16/26 19:05	01/20/26 08:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	91		28 - 127			01/16/26 19:05	01/20/26 08:38	1
2-Fluorobiphenyl (Surr)	79		31 - 120			01/16/26 19:05	01/20/26 08:38	1
2-Fluorophenol (Surr)	54		17 - 120			01/16/26 19:05	01/20/26 08:38	1
Nitrobenzene-d5 (Surr)	82		27 - 120			01/16/26 19:05	01/20/26 08:38	1
Phenol-d6 (Surr)	35		10 - 120			01/16/26 19:05	01/20/26 08:38	1
p-Terphenyl-d14 (Surr)	76		45 - 120			01/16/26 19:05	01/20/26 08:38	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
3-Penten-2-one, 4-methyl-	13	T J N	ug/L		1.88	141-79-7	01/16/26 19:05	01/20/26 10:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	84		33 - 139				01/16/26 19:05	01/20/26 10:29	1
2-Fluorobiphenyl (Surr)	99		33 - 126				01/16/26 19:05	01/20/26 10:29	1
2-Fluorophenol (Surr)	67		12 - 120				01/16/26 19:05	01/20/26 10:29	1
Nitrobenzene-d5 (Surr)	108		36 - 120				01/16/26 19:05	01/20/26 10:29	1
Phenol-d6 (Surr)	40		10 - 120				01/16/26 19:05	01/20/26 10:29	1
p-Terphenyl-d14 (Surr)	108		47 - 131				01/16/26 19:05	01/20/26 10:29	1

**Method: SW846 8015B GRO LL - Gasoline Range Organics - (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	<10		10	ug/L			01/17/26 01:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		38 - 134				01/17/26 01:18	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)	<27		27	ug/L		01/19/26 10:30	01/24/26 22:55	1
Motor Oil Range Organics [C24-C36]	<27		27	ug/L		01/19/26 10:30	01/24/26 22:55	1
C8-C18	<27		27	ug/L		01/19/26 10:30	01/24/26 22:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	122		60 - 130			01/19/26 10:30	01/24/26 22:55	1

**Client Sample ID: TB:AIEA GULCH WELLS P1 (331-201-TP071)**

**Lab Sample ID: 380-192330-3**

Date Collected: 01/12/26 10:00  
Date Received: 01/14/26 09:38

Matrix: Water

**Method: SW846 8015B GRO LL - Gasoline Range Organics - (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	<10		10	ug/L			01/16/26 23:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		38 - 134				01/16/26 23:28	1

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# Client Sample Results

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

Job ID: 380-192330-1  
 SDG: Weekly: Aiea Gulch Pump 1/Pump 2

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

**Lab Sample ID: 380-192330-4**

Date Collected: 01/12/26 10:30

Matrix: Water

Date Received: 01/14/26 09:38

**Method: SW846 8015B GRO LL - Gasoline Range Organics - (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	<10		10	ug/L			01/16/26 23:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		38 - 134				01/16/26 23:06	1

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

# Action Limit Summary

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

Job ID: 380-192330-1  
SDG: Weekly: Aiea Gulch Pump 1/Pump 2

**Client Sample ID: AIEA GULCH WELLS PUMP 1**

**Lab Sample ID: 380-192330-1**

**(331-201-TP071)**

**PWSID Number: HI0000331**

## 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	<0.0099		ug/L	2	0.0099	525.2	Total/NA
Heptachlor	<0.0099		ug/L	0.4	0.0099	525.2	Total/NA
Heptachlor epoxide (isomer B)	<0.0099		ug/L	0.2	0.0099	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	<0.0099		ug/L	0.2	0.0099	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	<0.20		ug/L	0.2	0.20	625.1 SIM	Total/NA

**Client Sample ID: AIEA GULCH WELLS PUMP 2**

**Lab Sample ID: 380-192330-2**

**(331-202-TP072)**

**PWSID Number: HI0000331**

## 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: 380-192330-1  
SDG: Weekly: Aiea Gulch Pump 1/Pump 2

## 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)
380-192330-1	AIEA GULCH WELLS PUMP 1 (	95	94	109
380-192330-2	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	94	96	112

**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)
380-192770-H-6-A MS	Matrix Spike	94	101	114
380-192770-H-6-B MSD	Matrix Spike Duplicate	93	109	103
LCS 380-199007/23-A	Lab Control Sample	92	108	102
MB 380-199007/21-A	Method Blank	92	80	106
MRL 380-199007/22-A	Lab Control Sample	92	87	102

**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)
380-192330-1	AIEA GULCH WELLS PUMP 1 (	89	99	70	108	43	114
380-192330-2	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	84	99	67	108	40	108

**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 570-683542/1-A	Method Blank	81	94	69	104	44	100

**Surrogate Legend**

# Surrogate Summary

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

Job ID: 380-192330-1  
 SDG: Weekly: Aiea Gulch Pump 1/Pump 2

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)
380-192330-1	AIEA GULCH WELLS PUMP 1 (	88	79	54	82	35	77
380-192330-2	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	91	79	54	82	35	76

### Surrogate Legend

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

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (28-127)	FBP (31-120)	2FP (17-120)	NBZ (27-120)	PHL6 (10-120)	TPHd14 (45-120)
LCS 570-683542/2-A	Lab Control Sample	79	74	60	80	40	76
LCSD 570-683542/3-A	Lab Control Sample Dup	78	77	57	80	37	80
MB 570-683542/1-A	Method Blank	86	72	55	79	36	70

### 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)
380-192330-1	AIEA GULCH WELLS PUMP 1 (	99
380-192330-2	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	89

### Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

# Surrogate Summary

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

Job ID: 380-192330-1  
SDG: Weekly: Aiea Gulch Pump 1/Pump 2

## 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)
380-191956-K-1 MS	Matrix Spike	97
380-191956-L-1 MSD	Matrix Spike Duplicate	96
380-192330-3	TB:AIEA GULCH WELLS P1 (331-201-TP071)	99
380-192330-4	TB:AIEA GULCH WELLS P2 (331-202-TP072)	96
LCS 570-683470/1010	Lab Control Sample	100
LCS 570-683470/13	Lab Control Sample Dup	89
MB 570-683470/12	Method Blank	94
MRL 570-683470/1005	Lab Control Sample	94

#### 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)
380-192330-2	AIEA GULCH WELLS PUMP 2 (	122

#### 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)
380-192922-A-1-A MS	Matrix Spike	120
380-192922-A-1-B MSD	Matrix Spike Duplicate	133 S1+
LCS 570-684016/2-A	Lab Control Sample	124
LCS 570-684016/3-A	Lab Control Sample Dup	130
MB 570-684016/1-A	Method Blank	123
MRL 570-684016/4-A	Lab Control Sample	122

#### Surrogate Legend

OTCSN = n-Octacosane (Surr)

# QC Sample Results

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

Job ID: 380-192330-1  
 SDG: Weekly: Aiea Gulch Pump 1/Pump 2

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

**Lab Sample ID: MB 380-199007/21-A**  
**Matrix: Water**  
**Analysis Batch: 199363**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 199007**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.099		0.099	ug/L		01/19/26 09:13	01/20/26 14:09	1
2,4'-DDD	<0.099		0.099	ug/L		01/19/26 09:13	01/20/26 14:09	1
2,4'-DDE	<0.099		0.099	ug/L		01/19/26 09:13	01/20/26 14:09	1
2,4'-DDT	<0.099		0.099	ug/L		01/19/26 09:13	01/20/26 14:09	1
2,4-Dinitrotoluene	<0.099		0.099	ug/L		01/19/26 09:13	01/20/26 14:09	1
2,6-Dinitrotoluene	<0.099		0.099	ug/L		01/19/26 09:13	01/20/26 14:09	1
2-Methylnaphthalene	<0.099		0.099	ug/L		01/19/26 09:13	01/20/26 14:09	1
4,4'-DDD	<0.099		0.099	ug/L		01/19/26 09:13	01/20/26 14:09	1
4,4'-DDE	<0.099		0.099	ug/L		01/19/26 09:13	01/20/26 14:09	1
4,4'-DDT	<0.099		0.099	ug/L		01/19/26 09:13	01/20/26 14:09	1
Acenaphthene	<0.099		0.099	ug/L		01/19/26 09:13	01/20/26 14:09	1
Acenaphthylene	<0.099		0.099	ug/L		01/19/26 09:13	01/20/26 14:09	1
Acetochlor	<0.099		0.099	ug/L		01/19/26 09:13	01/20/26 14:09	1
Alachlor	<0.050		0.050	ug/L		01/19/26 09:13	01/20/26 14:09	1
alpha-BHC	<0.099		0.099	ug/L		01/19/26 09:13	01/20/26 14:09	1
alpha-Chlordane	<0.050		0.050	ug/L		01/19/26 09:13	01/20/26 14:09	1
Anthracene	<0.020		0.020	ug/L		01/19/26 09:13	01/20/26 14:09	1
Atrazine	<0.050		0.050	ug/L		01/19/26 09:13	01/20/26 14:09	1
Benz(a)anthracene	<0.050		0.050	ug/L		01/19/26 09:13	01/20/26 14:09	1
Benzo[a]pyrene	<0.020		0.020	ug/L		01/19/26 09:13	01/20/26 14:09	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		01/19/26 09:13	01/20/26 14:09	1
Benzo[g,h,i]perylene	<0.050		0.050	ug/L		01/19/26 09:13	01/20/26 14:09	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		01/19/26 09:13	01/20/26 14:09	1
beta-BHC	<0.099		0.099	ug/L		01/19/26 09:13	01/20/26 14:09	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		01/19/26 09:13	01/20/26 14:09	1
Bromacil	<0.099		0.099	ug/L		01/19/26 09:13	01/20/26 14:09	1
Butachlor	<0.050		0.050	ug/L		01/19/26 09:13	01/20/26 14:09	1
Butylbenzylphthalate	<0.50		0.50	ug/L		01/19/26 09:13	01/20/26 14:09	1
Chlorobenzilate	<0.099		0.099	ug/L		01/19/26 09:13	01/20/26 14:09	1
Chloroneb	<0.099		0.099	ug/L		01/19/26 09:13	01/20/26 14:09	1
Chlorothalonil (Draconil, Bravo)	<0.099		0.099	ug/L		01/19/26 09:13	01/20/26 14:09	1
Chlorpyrifos	<0.050		0.050	ug/L		01/19/26 09:13	01/20/26 14:09	1
Chrysene	<0.020		0.020	ug/L		01/19/26 09:13	01/20/26 14:09	1
delta-BHC	<0.099		0.099	ug/L		01/19/26 09:13	01/20/26 14:09	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		01/19/26 09:13	01/20/26 14:09	1
Dibenz(a,h)anthracene	<0.050		0.050	ug/L		01/19/26 09:13	01/20/26 14:09	1
Diclorvos (DDVP)	<0.050		0.050	ug/L		01/19/26 09:13	01/20/26 14:09	1
Dieldrin	<0.0099		0.0099	ug/L		01/19/26 09:13	01/20/26 14:09	1
Diethylphthalate	<0.50		0.50	ug/L		01/19/26 09:13	01/20/26 14:09	1
Dimethylphthalate	<0.50		0.50	ug/L		01/19/26 09:13	01/20/26 14:09	1
Di-n-butyl phthalate	<0.99		0.99	ug/L		01/19/26 09:13	01/20/26 14:09	1
Di-n-octyl phthalate	<0.099		0.099	ug/L		01/19/26 09:13	01/20/26 14:09	1
Endosulfan I (Alpha)	<0.099		0.099	ug/L		01/19/26 09:13	01/20/26 14:09	1
Endosulfan II (Beta)	<0.099		0.099	ug/L		01/19/26 09:13	01/20/26 14:09	1
Endosulfan sulfate	<0.099		0.099	ug/L		01/19/26 09:13	01/20/26 14:09	1
Endrin	<0.0099		0.0099	ug/L		01/19/26 09:13	01/20/26 14:09	1
Endrin aldehyde	<0.099		0.099	ug/L		01/19/26 09:13	01/20/26 14:09	1
EPTC	<0.099		0.099	ug/L		01/19/26 09:13	01/20/26 14:09	1

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# QC Sample Results

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

Job ID: 380-192330-1  
SDG: Weekly: Aiea Gulch Pump 1/Pump 2

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

**Lab Sample ID: MB 380-199007/21-A**  
**Matrix: Water**  
**Analysis Batch: 199363**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 199007**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.099		0.099	ug/L		01/19/26 09:13	01/20/26 14:09	1
Fluorene	<0.050		0.050	ug/L		01/19/26 09:13	01/20/26 14:09	1
gamma-Chlordane	<0.050		0.050	ug/L		01/19/26 09:13	01/20/26 14:09	1
Heptachlor	<0.0099		0.0099	ug/L		01/19/26 09:13	01/20/26 14:09	1
Heptachlor epoxide (isomer B)	<0.0099		0.0099	ug/L		01/19/26 09:13	01/20/26 14:09	1
Hexachlorobenzene	<0.050		0.050	ug/L		01/19/26 09:13	01/20/26 14:09	1
Hexachlorocyclopentadiene	<0.050		0.050	ug/L		01/19/26 09:13	01/20/26 14:09	1
Indeno[1,2,3-cd]pyrene	<0.050		0.050	ug/L		01/19/26 09:13	01/20/26 14:09	1
Isophorone	<0.099		0.099	ug/L		01/19/26 09:13	01/20/26 14:09	1
Lindane	<0.0099		0.0099	ug/L		01/19/26 09:13	01/20/26 14:09	1
Malathion	<0.099		0.099	ug/L		01/19/26 09:13	01/20/26 14:09	1
Methoxychlor	<0.050		0.050	ug/L		01/19/26 09:13	01/20/26 14:09	1
Metolachlor	<0.050		0.050	ug/L		01/19/26 09:13	01/20/26 14:09	1
Molinate	<0.099		0.099	ug/L		01/19/26 09:13	01/20/26 14:09	1
Naphthalene	<0.099		0.099	ug/L		01/19/26 09:13	01/20/26 14:09	1
Parathion	<0.099		0.099	ug/L		01/19/26 09:13	01/20/26 14:09	1
Pendimethalin (Penoxaline)	<0.099		0.099	ug/L		01/19/26 09:13	01/20/26 14:09	1
Phenanthrene	<0.040		0.040	ug/L		01/19/26 09:13	01/20/26 14:09	1
Propachlor	<0.050		0.050	ug/L		01/19/26 09:13	01/20/26 14:09	1
Pyrene	<0.050		0.050	ug/L		01/19/26 09:13	01/20/26 14:09	1
Simazine	<0.050		0.050	ug/L		01/19/26 09:13	01/20/26 14:09	1
Terbacil	<0.099		0.099	ug/L		01/19/26 09:13	01/20/26 14:09	1
Terbutylazine	<0.099		0.099	ug/L		01/19/26 09:13	01/20/26 14:09	1
Thiobencarb	<0.099		0.099	ug/L		01/19/26 09:13	01/20/26 14:09	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		01/19/26 09:13	01/20/26 14:09	1
trans-Nonachlor	<0.050		0.050	ug/L		01/19/26 09:13	01/20/26 14:09	1
Trifluralin	<0.099		0.099	ug/L		01/19/26 09:13	01/20/26 14:09	1

<i>Tentatively Identified Compound</i>	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
<i>Cyclopentene, 1,2,3,3,4-pentamethyl-</i>	0.580	T J N	ug/L		2.52	197390-29-7	01/19/26 09:13	01/20/26 14:09	1
<i>Undecane, 4,6-dimethyl-</i>	0.949	T J N	ug/L		2.97	17312-82-2	01/19/26 09:13	01/20/26 14:09	1
<i>Undecane</i>	2.61	T J N	ug/L		3.11	1120-21-4	01/19/26 09:13	01/20/26 14:09	1
<i>Cyclopentasiloxane, decamethyl-</i>	0.532	T J N	ug/L		3.24	541-02-6	01/19/26 09:13	01/20/26 14:09	1
<i>Hexadecane</i>	0.675	T J N	ug/L		3.75	544-76-3	01/19/26 09:13	01/20/26 14:09	1
<i>Cyclohexasiloxane, dodecamethyl-</i>	0.687	T J N	ug/L		3.86	540-97-6	01/19/26 09:13	01/20/26 14:09	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	92		70 - 130	01/19/26 09:13	01/20/26 14:09	1
Perylene-d12	80		70 - 130	01/19/26 09:13	01/20/26 14:09	1
Triphenylphosphate	106		70 - 130	01/19/26 09:13	01/20/26 14:09	1

**Lab Sample ID: LCS 380-199007/23-A**  
**Matrix: Water**  
**Analysis Batch: 199363**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 199007**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1-Methylnaphthalene	1.98	1.93		ug/L		98	70 - 130
2,4'-DDD	1.98	2.18		ug/L		110	70 - 130

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# QC Sample Results

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

Job ID: 380-192330-1  
SDG: Weekly: Aiea Gulch Pump 1/Pump 2

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

**Lab Sample ID: LCS 380-199007/23-A**  
**Matrix: Water**  
**Analysis Batch: 199363**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 199007**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4'-DDE	1.98	2.20		ug/L		111	70 - 130
2,4'-DDT	1.98	1.96		ug/L		99	70 - 130
2,4-Dinitrotoluene	1.98	1.91		ug/L		96	70 - 130
2,6-Dinitrotoluene	1.98	1.86		ug/L		94	70 - 130
2-Methylnaphthalene	1.98	1.91		ug/L		97	70 - 130
4,4'-DDD	1.98	2.02		ug/L		102	70 - 130
4,4'-DDE	1.98	2.14		ug/L		108	70 - 130
4,4'-DDT	1.98	1.90		ug/L		96	70 - 130
Acenaphthene	1.98	1.96		ug/L		99	70 - 130
Acenaphthylene	1.98	2.13		ug/L		108	70 - 130
Acetochlor	1.98	1.97		ug/L		99	70 - 130
Alachlor	1.98	2.23		ug/L		112	70 - 130
alpha-BHC	1.98	2.12		ug/L		107	70 - 130
alpha-Chlordane	1.98	2.26		ug/L		114	70 - 130
Anthracene	1.98	2.24		ug/L		113	70 - 130
Atrazine	1.98	2.01		ug/L		101	70 - 130
Benz(a)anthracene	1.98	1.94		ug/L		98	70 - 130
Benzo[a]pyrene	1.98	2.47		ug/L		125	70 - 130
Benzo[b]fluoranthene	1.98	1.99		ug/L		100	70 - 130
Benzo[g,h,i]perylene	1.98	1.82		ug/L		92	70 - 130
Benzo[k]fluoranthene	1.98	2.01		ug/L		101	70 - 130
beta-BHC	1.98	2.01		ug/L		102	70 - 130
Bis(2-ethylhexyl) phthalate	1.98	1.98		ug/L		100	70 - 130
Bromacil	1.98	1.79		ug/L		90	70 - 130
Butachlor	1.98	1.99		ug/L		100	70 - 130
Butylbenzylphthalate	1.98	2.04		ug/L		103	70 - 130
Chlorobenzilate	1.98	1.91		ug/L		96	70 - 130
Chloroneb	1.98	1.95		ug/L		98	70 - 130
Chlorothalonil (Draconil, Bravo)	1.98	1.86		ug/L		94	70 - 130
Chlorpyrifos	1.98	2.01		ug/L		101	70 - 130
Chrysene	1.98	1.95		ug/L		98	70 - 130
delta-BHC	1.98	2.15		ug/L		109	70 - 130
Di(2-ethylhexyl)adipate	1.98	2.07		ug/L		105	70 - 130
Dibenz(a,h)anthracene	1.98	1.78		ug/L		90	70 - 130
Diclorvos (DDVP)	1.98	2.26		ug/L		114	70 - 130
Dieldrin	1.98	2.20		ug/L		111	70 - 130
Diethylphthalate	1.98	2.06		ug/L		104	70 - 130
Dimethylphthalate	1.98	2.10		ug/L		106	70 - 130
Di-n-butyl phthalate	3.96	4.12		ug/L		104	70 - 130
Di-n-octyl phthalate	1.98	1.91		ug/L		96	70 - 130
Endosulfan I (Alpha)	1.98	1.96		ug/L		99	70 - 130
Endosulfan II (Beta)	1.98	1.81		ug/L		91	70 - 130
Endosulfan sulfate	1.98	1.80		ug/L		91	70 - 130
Endrin	1.98	2.39		ug/L		120	70 - 130
Endrin aldehyde	1.98	2.14		ug/L		108	60 - 130
EPTC	1.98	2.04		ug/L		103	70 - 130
Fluoranthene	1.98	2.06		ug/L		104	70 - 130
Fluorene	1.98	2.12		ug/L		107	70 - 130
gamma-Chlordane	1.98	2.15		ug/L		108	70 - 130

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# QC Sample Results

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

Job ID: 380-192330-1  
SDG: Weekly: Aiea Gulch Pump 1/Pump 2

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

**Lab Sample ID: LCS 380-199007/23-A**  
**Matrix: Water**  
**Analysis Batch: 199363**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 199007**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Heptachlor	1.98	2.10		ug/L		106	70 - 130
Heptachlor epoxide (isomer B)	1.98	1.96		ug/L		99	70 - 130
Hexachlorobenzene	1.98	2.09		ug/L		105	70 - 130
Hexachlorocyclopentadiene	1.98	1.97		ug/L		99	70 - 130
Indeno[1,2,3-cd]pyrene	1.98	1.83		ug/L		92	70 - 130
Isophorone	1.98	1.85		ug/L		93	70 - 130
Lindane	1.98	2.03		ug/L		102	70 - 130
Malathion	1.98	2.08		ug/L		105	70 - 130
Methoxychlor	1.98	2.14		ug/L		108	70 - 130
Metolachlor	1.98	2.15		ug/L		108	70 - 130
Molinate	1.98	2.14		ug/L		108	70 - 130
Naphthalene	1.98	1.91		ug/L		96	70 - 130
Parathion	1.98	1.97		ug/L		100	70 - 130
Pendimethalin (Penoxaline)	1.98	2.24		ug/L		113	70 - 130
Phenanthrene	1.98	2.01		ug/L		101	70 - 130
Propachlor	1.98	2.19		ug/L		110	70 - 130
Pyrene	1.98	2.21		ug/L		111	70 - 130
Simazine	1.98	2.15		ug/L		109	70 - 130
Terbacil	1.98	1.82		ug/L		92	70 - 130
Terbutylazine	1.98	2.10		ug/L		106	70 - 130
Thiobencarb	1.98	2.10		ug/L		106	70 - 130
trans-Nonachlor	1.98	2.48		ug/L		125	70 - 130
Trifluralin	1.98	1.72		ug/L		87	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Nitro-m-xylene	92		70 - 130
Perylene-d12	108		70 - 130
Triphenylphosphate	102		70 - 130

**Lab Sample ID: MRL 380-199007/22-A**  
**Matrix: Water**  
**Analysis Batch: 199363**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 199007**

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	0.0994	0.110		ug/L		110	50 - 150
2,4'-DDD	0.0994	0.0985	J	ug/L		99	50 - 150
2,4'-DDE	0.0994	0.114		ug/L		114	50 - 150
2,4'-DDT	0.0994	0.118		ug/L		119	50 - 150
2,4-Dinitrotoluene	0.0994	0.116		ug/L		117	50 - 150
2,6-Dinitrotoluene	0.0994	0.137		ug/L		138	50 - 150
2-Methylnaphthalene	0.0994	0.101		ug/L		102	50 - 150
4,4'-DDD	0.0994	0.110		ug/L		111	50 - 150
4,4'-DDE	0.0994	0.0882	J	ug/L		89	50 - 150
4,4'-DDT	0.0994	0.117		ug/L		118	50 - 150
Acenaphthene	0.0994	0.104		ug/L		105	50 - 150
Acenaphthylene	0.0994	0.0999		ug/L		101	50 - 150
Acetochlor	0.0994	0.123		ug/L		124	50 - 150
Alachlor	0.0497	0.0611		ug/L		123	50 - 150

# QC Sample Results

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

Job ID: 380-192330-1  
SDG: Weekly: Aiea Gulch Pump 1/Pump 2

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

**Lab Sample ID: MRL 380-199007/22-A**  
**Matrix: Water**  
**Analysis Batch: 199363**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 199007**

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
alpha-BHC	0.0994	0.102		ug/L		102	50 - 150
alpha-Chlordane	0.0249	0.0298	J	ug/L		120	50 - 150
Anthracene	0.0199	0.0258		ug/L		130	50 - 150
Atrazine	0.0497	0.0542		ug/L		109	50 - 150
Benz(a)anthracene	0.0497	0.0570		ug/L		115	50 - 150
Benzo[a]pyrene	0.0199	0.0268		ug/L		135	50 - 150
Benzo[b]fluoranthene	0.0199	0.0258		ug/L		130	50 - 150
Benzo[g,h,i]perylene	0.0497	0.0532		ug/L		107	50 - 150
Benzo[k]fluoranthene	0.0199	0.0273		ug/L		137	50 - 150
beta-BHC	0.0994	0.109		ug/L		110	50 - 150
Bis(2-ethylhexyl) phthalate	0.596	0.648		ug/L		109	50 - 150
Bromacil	0.0994	0.116		ug/L		117	50 - 150
Butachlor	0.0497	0.0649		ug/L		131	50 - 150
Butylbenzylphthalate	0.497	0.587		ug/L		118	50 - 150
Chlorobenzilate	0.0994	0.106		ug/L		107	50 - 150
Chloroneb	0.0994	0.107		ug/L		107	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0994	0.116		ug/L		117	50 - 150
Chlorpyrifos	0.0497	0.0574		ug/L		116	50 - 150
Chrysene	0.0199	0.0280		ug/L		141	50 - 150
delta-BHC	0.0994	0.103		ug/L		103	50 - 150
Di(2-ethylhexyl)adipate	0.596	0.625		ug/L		105	50 - 150
Dibenz(a,h)anthracene	0.0497	0.0683		ug/L		137	50 - 150
Diclorvos (DDVP)	0.0497	0.0686		ug/L		138	50 - 150
Dieldrin	0.00994	0.0125		ug/L		126	50 - 150
Diethylphthalate	0.497	0.557		ug/L		112	50 - 150
Dimethylphthalate	0.497	0.568		ug/L		114	50 - 150
Di-n-butyl phthalate	0.497	0.626	J	ug/L		126	49 - 243
Di-n-octyl phthalate	0.0994	0.0968	J	ug/L		97	50 - 150
Endosulfan I (Alpha)	0.0994	0.104		ug/L		105	50 - 150
Endosulfan II (Beta)	0.0994	0.105		ug/L		106	50 - 150
Endosulfan sulfate	0.0994	0.119		ug/L		120	50 - 150
Endrin	0.00994	0.0115		ug/L		116	50 - 150
Endrin aldehyde	0.0994	0.109		ug/L		109	50 - 150
EPTC	0.0994	0.105		ug/L		106	50 - 150
Fluoranthene	0.0994	0.103		ug/L		104	50 - 150
Fluorene	0.0497	0.0543		ug/L		109	50 - 150
gamma-Chlordane	0.0249	0.0291	J	ug/L		117	50 - 150
Heptachlor	0.00994	0.00890	J	ug/L		90	50 - 150
Heptachlor epoxide (isomer B)	0.00994	0.0108		ug/L		109	50 - 150
Hexachlorobenzene	0.0497	0.0545		ug/L		110	50 - 150
Hexachlorocyclopentadiene	0.0497	0.0514		ug/L		103	50 - 150
Indeno[1,2,3-cd]pyrene	0.0497	0.0562		ug/L		113	50 - 150
Isophorone	0.0994	0.111		ug/L		112	50 - 150
Lindane	0.00994	0.0125		ug/L		126	50 - 150
Malathion	0.0994	0.108		ug/L		109	50 - 150
Methoxychlor	0.0497	0.0667		ug/L		134	50 - 150
Metolachlor	0.0497	0.0615		ug/L		124	50 - 150
Molinate	0.0994	0.114		ug/L		114	50 - 150
Naphthalene	0.0994	0.111		ug/L		111	50 - 150

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# QC Sample Results

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

Job ID: 380-192330-1  
SDG: Weekly: Aiea Gulch Pump 1/Pump 2

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

**Lab Sample ID: MRL 380-199007/22-A**  
**Matrix: Water**  
**Analysis Batch: 199363**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 199007**

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Parathion	0.0994	0.108		ug/L		108	50 - 150
Pendimethalin (Penoxaline)	0.0994	0.107		ug/L		107	50 - 150
Phenanthrene	0.0398	0.0462		ug/L		116	50 - 150
Propachlor	0.0497	0.0577		ug/L		116	50 - 150
Pyrene	0.0497	0.0520		ug/L		105	50 - 150
Simazine	0.0497	0.0470	J	ug/L		95	50 - 150
Terbacil	0.0994	0.119		ug/L		120	50 - 150
Terbutylazine	0.0994	0.0979	J	ug/L		98	50 - 150
Thiobencarb	0.0994	0.118		ug/L		119	50 - 150
trans-Nonachlor	0.0249	0.0301	J	ug/L		121	50 - 150
Trifluralin	0.0994	0.120		ug/L		120	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
2-Nitro-m-xylene	92		70 - 130
Perylene-d12	87		70 - 130
Triphenylphosphate	102		70 - 130

**Lab Sample ID: 380-192770-H-6-A MS**  
**Matrix: Water**  
**Analysis Batch: 199363**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 199007**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.10		2.02	1.99		ug/L		98	70 - 130
2,4'-DDD	<0.10		2.02	2.17		ug/L		108	70 - 130
2,4'-DDE	<0.10		2.02	2.02		ug/L		100	70 - 130
2,4'-DDT	<0.10		2.02	2.03		ug/L		101	70 - 130
2,4-Dinitrotoluene	<0.10		2.02	2.07		ug/L		103	70 - 130
2,6-Dinitrotoluene	<0.10		2.02	1.97		ug/L		98	70 - 130
2-Methylnaphthalene	<0.10		2.02	1.95		ug/L		97	70 - 130
4,4'-DDD	<0.10		2.02	2.04		ug/L		101	70 - 130
4,4'-DDE	<0.10		2.02	2.09		ug/L		104	70 - 130
4,4'-DDT	<0.10		2.02	2.00		ug/L		99	70 - 130
Acenaphthene	<0.10		2.02	1.95		ug/L		97	70 - 130
Acenaphthylene	<0.10		2.02	2.19		ug/L		108	70 - 130
Acetochlor	<0.10		2.02	1.96		ug/L		97	70 - 130
Alachlor	<0.051		2.02	2.22		ug/L		110	70 - 130
alpha-BHC	<0.10		2.02	1.98		ug/L		98	70 - 130
alpha-Chlordane	<0.051	F2	2.02	2.34		ug/L		116	70 - 130
Anthracene	<0.021		2.02	2.21		ug/L		110	70 - 130
Atrazine	<0.051		2.02	2.21		ug/L		110	70 - 130
Benz(a)anthracene	<0.051		2.02	1.92		ug/L		95	70 - 130
Benzo[a]pyrene	<0.021		2.02	2.03		ug/L		101	70 - 130
Benzo[b]fluoranthene	<0.021		2.02	1.91		ug/L		95	70 - 130
Benzo[g,h,i]perylene	<0.051		2.02	1.64		ug/L		81	70 - 130
Benzo[k]fluoranthene	<0.021		2.02	1.81		ug/L		90	70 - 130
beta-BHC	<0.10		2.02	1.97		ug/L		98	70 - 130
Bis(2-ethylhexyl) phthalate	<0.62		2.02	1.65		ug/L		82	70 - 130
Bromacil	<0.10		2.02	2.07		ug/L		103	70 - 130

# QC Sample Results

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

Job ID: 380-192330-1  
 SDG: Weekly: Aiea Gulch Pump 1/Pump 2

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

**Lab Sample ID: 380-192770-H-6-A MS**  
**Matrix: Water**  
**Analysis Batch: 199363**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 199007**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Butachlor	<0.051		2.02	2.16		ug/L		107	70 - 130
Butylbenzylphthalate	<0.51		2.02	2.07		ug/L		103	70 - 130
Chlorobenzilate	<0.10		2.02	2.01		ug/L		100	70 - 130
Chloroneb	<0.10		2.02	2.01		ug/L		100	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.10		2.02	2.12		ug/L		105	70 - 130
Chlorpyrifos	<0.051		2.02	2.27		ug/L		113	70 - 130
Chrysene	<0.021		2.02	1.96		ug/L		97	70 - 130
delta-BHC	<0.10		2.02	1.99		ug/L		99	70 - 130
Di(2-ethylhexyl)adipate	<0.62		2.02	1.74		ug/L		86	70 - 130
Dibenz(a,h)anthracene	<0.051		2.02	1.54		ug/L		76	70 - 130
Diclorvos (DDVP)	<0.051		2.02	2.41		ug/L		120	70 - 130
Dieldrin	<0.010		2.02	2.26		ug/L		112	70 - 130
Diethylphthalate	<0.51		2.02	2.10		ug/L		104	70 - 130
Dimethylphthalate	<0.51		2.02	2.18		ug/L		108	70 - 130
Di-n-butyl phthalate	<1.0		4.03	4.03		ug/L		95	70 - 130
Di-n-octyl phthalate	<0.10		2.02	1.53		ug/L		76	70 - 130
Endosulfan I (Alpha)	<0.10		2.02	2.06		ug/L		102	70 - 130
Endosulfan II (Beta)	<0.10		2.02	2.02		ug/L		100	70 - 130
Endosulfan sulfate	<0.10		2.02	2.15		ug/L		106	70 - 130
Endrin	<0.010		2.02	2.24		ug/L		111	70 - 130
Endrin aldehyde	<0.10		2.02	1.55		ug/L		77	60 - 130
EPTC	<0.10		2.02	2.18		ug/L		108	70 - 130
Fluoranthene	<0.10		2.02	2.24		ug/L		111	70 - 130
Fluorene	<0.051		2.02	2.14		ug/L		106	70 - 130
gamma-Chlordane	<0.051	F2	2.02	2.32		ug/L		115	70 - 130
Heptachlor	<0.010		2.02	2.27		ug/L		113	70 - 130
Heptachlor epoxide (isomer B)	<0.010		2.02	2.35		ug/L		116	70 - 130
Hexachlorobenzene	<0.051		2.02	2.04		ug/L		101	70 - 130
Hexachlorocyclopentadiene	<0.051		2.02	1.99		ug/L		98	70 - 130
Indeno[1,2,3-cd]pyrene	<0.051		2.02	1.70		ug/L		84	70 - 130
Isophorone	<0.10		2.02	1.97		ug/L		98	70 - 130
Lindane	<0.010		2.02	2.07		ug/L		103	70 - 130
Malathion	<0.10		2.02	2.06		ug/L		102	70 - 130
Methoxychlor	<0.051		2.02	2.22		ug/L		110	70 - 130
Metolachlor	<0.051		2.02	2.13		ug/L		106	70 - 130
Molinate	<0.10		2.02	2.23		ug/L		110	70 - 130
Naphthalene	<0.10		2.02	2.02		ug/L		100	70 - 130
Parathion	<0.10		2.02	2.15		ug/L		106	70 - 130
Pendimethalin (Penoxaline)	<0.10		2.02	2.37		ug/L		117	70 - 130
Phenanthrene	<0.041		2.02	2.01		ug/L		100	70 - 130
Propachlor	<0.051		2.02	2.28		ug/L		113	70 - 130
Pyrene	<0.051		2.02	2.26		ug/L		112	70 - 130
Simazine	<0.051		2.02	2.18		ug/L		108	70 - 130
Terbacil	<0.10		2.02	1.90		ug/L		94	70 - 130
Terbutylazine	<0.10		2.02	2.15		ug/L		106	70 - 130
Thiobencarb	<0.10		2.02	2.24		ug/L		111	70 - 130
trans-Nonachlor	<0.051	F2	2.02	2.55		ug/L		126	70 - 130
Trifluralin	<0.10		2.02	1.95		ug/L		97	70 - 130

# QC Sample Results

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

Job ID: 380-192330-1  
SDG: Weekly: Aiea Gulch Pump 1/Pump 2

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

**Lab Sample ID: 380-192770-H-6-A MS**  
**Matrix: Water**  
**Analysis Batch: 199363**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 199007**

Surrogate	%Recovery	MS MS Qualifier	Limits
2-Nitro-m-xylene	94		70 - 130
Perylene-d12	101		70 - 130
Triphenylphosphate	114		70 - 130

**Lab Sample ID: 380-192770-H-6-B MSD**  
**Matrix: Water**  
**Analysis Batch: 199363**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 199007**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	<0.10		2.03	2.02		ug/L		99	70 - 130	2	20
2,4'-DDD	<0.10		2.03	1.86		ug/L		91	70 - 130	16	20
2,4'-DDE	<0.10		2.03	1.91		ug/L		94	70 - 130	5	20
2,4'-DDT	<0.10		2.03	1.73		ug/L		85	70 - 130	16	20
2,4-Dinitrotoluene	<0.10		2.03	2.10		ug/L		104	70 - 130	2	20
2,6-Dinitrotoluene	<0.10		2.03	2.12		ug/L		104	70 - 130	7	20
2-Methylnaphthalene	<0.10		2.03	2.02		ug/L		99	70 - 130	3	20
4,4'-DDD	<0.10		2.03	1.77		ug/L		87	70 - 130	14	20
4,4'-DDE	<0.10		2.03	2.02		ug/L		99	70 - 130	4	20
4,4'-DDT	<0.10		2.03	1.72		ug/L		84	70 - 130	15	20
Acenaphthene	<0.10		2.03	2.02		ug/L		100	70 - 130	4	20
Acenaphthylene	<0.10		2.03	2.29		ug/L		113	70 - 130	5	20
Acetochlor	<0.10		2.03	2.01		ug/L		99	70 - 130	3	20
Alachlor	<0.051		2.03	2.15		ug/L		106	70 - 130	3	20
alpha-BHC	<0.10		2.03	1.98		ug/L		98	70 - 130	0	20
alpha-Chlordane	<0.051	F2	2.03	1.89	F2	ug/L		93	70 - 130	22	20
Anthracene	<0.021		2.03	2.21		ug/L		109	70 - 130	0	20
Atrazine	<0.051		2.03	2.24		ug/L		110	70 - 130	1	20
Benz(a)anthracene	<0.051		2.03	1.92		ug/L		95	70 - 130	0	20
Benzo[a]pyrene	<0.021		2.03	2.07		ug/L		102	70 - 130	2	20
Benzo[b]fluoranthene	<0.021		2.03	1.94		ug/L		95	70 - 130	1	20
Benzo[g,h,i]perylene	<0.051		2.03	1.59		ug/L		78	70 - 130	3	20
Benzo[k]fluoranthene	<0.021		2.03	1.80		ug/L		89	70 - 130	0	20
beta-BHC	<0.10		2.03	2.06		ug/L		101	70 - 130	4	20
Bis(2-ethylhexyl) phthalate	<0.62		2.03	1.59		ug/L		78	70 - 130	4	20
Bromacil	<0.10		2.03	1.74		ug/L		86	70 - 130	17	20
Butachlor	<0.051		2.03	2.29		ug/L		113	70 - 130	6	20
Butylbenzylphthalate	<0.51		2.03	2.10		ug/L		103	70 - 130	1	20
Chlorobenzilate	<0.10		2.03	2.13		ug/L		105	70 - 130	6	20
Chloroneb	<0.10		2.03	2.04		ug/L		100	70 - 130	1	20
Chlorothalonil (Draconil, Bravo)	<0.10		2.03	2.11		ug/L		104	70 - 130	0	20
Chlorpyrifos	<0.051		2.03	2.08		ug/L		102	70 - 130	9	20
Chrysene	<0.021		2.03	1.95		ug/L		96	70 - 130	0	20
delta-BHC	<0.10		2.03	1.96		ug/L		97	70 - 130	2	20
Di(2-ethylhexyl)adipate	<0.62		2.03	1.72		ug/L		85	70 - 130	1	20
Dibenz(a,h)anthracene	<0.051		2.03	1.52		ug/L		75	70 - 130	1	20
Diclorvos (DDVP)	<0.051		2.03	2.48		ug/L		122	70 - 130	3	20
Dieldrin	<0.010		2.03	2.10		ug/L		104	70 - 130	7	20
Diethylphthalate	<0.51		2.03	2.26		ug/L		111	70 - 130	7	20

Eurofins Pomona

# QC Sample Results

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

Job ID: 380-192330-1  
SDG: Weekly: Aiea Gulch Pump 1/Pump 2

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

**Lab Sample ID: 380-192770-H-6-B MSD**  
**Matrix: Water**  
**Analysis Batch: 199363**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 199007**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		
Dimethylphthalate	<0.51		2.03	2.23		ug/L		110	70 - 130	2	20
Di-n-butyl phthalate	<1.0		4.06	4.24		ug/L		100	70 - 130	5	20
Di-n-octyl phthalate	<0.10		2.03	1.48		ug/L		73	70 - 130	3	20
Endosulfan I (Alpha)	<0.10		2.03	2.00		ug/L		98	70 - 130	3	20
Endosulfan II (Beta)	<0.10		2.03	2.15		ug/L		106	70 - 130	6	20
Endosulfan sulfate	<0.10		2.03	1.85		ug/L		91	70 - 130	15	20
Endrin	<0.010		2.03	1.98		ug/L		97	70 - 130	12	20
Endrin aldehyde	<0.10		2.03	1.51		ug/L		74	60 - 130	2	20
EPTC	<0.10		2.03	2.18		ug/L		107	70 - 130	0	20
Fluoranthene	<0.10		2.03	2.17		ug/L		107	70 - 130	3	20
Fluorene	<0.051		2.03	2.25		ug/L		111	70 - 130	5	20
gamma-Chlordane	<0.051	F2	2.03	1.82	F2	ug/L		90	70 - 130	24	20
Heptachlor	<0.010		2.03	2.20		ug/L		108	70 - 130	3	20
Heptachlor epoxide (isomer B)	<0.010		2.03	2.16		ug/L		106	70 - 130	8	20
Hexachlorobenzene	<0.051		2.03	2.08		ug/L		102	70 - 130	2	20
Hexachlorocyclopentadiene	<0.051		2.03	2.03		ug/L		100	70 - 130	2	20
Indeno[1,2,3-cd]pyrene	<0.051		2.03	1.66		ug/L		82	70 - 130	2	20
Isophorone	<0.10		2.03	1.98		ug/L		98	70 - 130	0	20
Lindane	<0.010		2.03	2.11		ug/L		104	70 - 130	2	20
Malathion	<0.10		2.03	2.00		ug/L		98	70 - 130	3	20
Methoxychlor	<0.051		2.03	2.26		ug/L		111	70 - 130	2	20
Metolachlor	<0.051		2.03	2.22		ug/L		109	70 - 130	4	20
Molinate	<0.10		2.03	2.30		ug/L		113	70 - 130	3	20
Naphthalene	<0.10		2.03	2.02		ug/L		100	70 - 130	0	20
Parathion	<0.10		2.03	2.18		ug/L		107	70 - 130	1	20
Pendimethalin (Penoxaline)	<0.10		2.03	2.18		ug/L		107	70 - 130	8	20
Phenanthrene	<0.041		2.03	2.01		ug/L		99	70 - 130	0	20
Propachlor	<0.051		2.03	2.37		ug/L		117	70 - 130	4	20
Pyrene	<0.051		2.03	2.14		ug/L		105	70 - 130	5	20
Simazine	<0.051		2.03	2.20		ug/L		108	70 - 130	1	20
Terbacil	<0.10		2.03	1.94		ug/L		95	70 - 130	2	20
Terbutylazine	<0.10		2.03	2.24		ug/L		110	70 - 130	4	20
Thiobencarb	<0.10		2.03	2.20		ug/L		108	70 - 130	1	20
trans-Nonachlor	<0.051	F2	2.03	1.82	F2	ug/L		90	70 - 130	33	20
Trifluralin	<0.10		2.03	1.99		ug/L		98	70 - 130	2	20
			<b>MSD</b>	<b>MSD</b>							
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>								
2-Nitro-m-xylene	93		70 - 130								
Perylene-d12	109		70 - 130								
Triphenylphosphate	103		70 - 130								

# QC Sample Results

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

Job ID: 380-192330-1  
SDG: Weekly: Aiea Gulch Pump 1/Pump 2

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

**Lab Sample ID: MB 570-683542/1-A**  
**Matrix: Water**  
**Analysis Batch: 684445**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 683542**

<i>Tentatively Identified Compound</i>	<i>MB</i>	<i>MB</i>	<i>Unit</i>	<i>D</i>	<i>RT</i>	<i>CAS No.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Tentatively Identified Compound</i>	None		ug/L			N/A	01/16/26 19:05	01/20/26 09:16	1

<i>Surrogate</i>	<i>MB</i>	<i>MB</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
	<i>%Recovery</i>	<i>Qualifier</i>				
<i>2,4,6-Tribromophenol (Surr)</i>	81		33 - 139	01/16/26 19:05	01/20/26 09:16	1
<i>2-Fluorobiphenyl (Surr)</i>	94		33 - 126	01/16/26 19:05	01/20/26 09:16	1
<i>2-Fluorophenol (Surr)</i>	69		12 - 120	01/16/26 19:05	01/20/26 09:16	1
<i>Nitrobenzene-d5 (Surr)</i>	104		36 - 120	01/16/26 19:05	01/20/26 09:16	1
<i>Phenol-d6 (Surr)</i>	44		10 - 120	01/16/26 19:05	01/20/26 09:16	1
<i>p-Terphenyl-d14 (Surr)</i>	100		47 - 131	01/16/26 19:05	01/20/26 09:16	1

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

**Lab Sample ID: MB 570-683542/1-A**  
**Matrix: Water**  
**Analysis Batch: 684411**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 683542**

<i>Analyte</i>	<i>MB</i>	<i>MB</i>	<i>RL</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
	<i>Result</i>	<i>Qualifier</i>						
1-Methylnaphthalene	<0.20		0.20	ug/L		01/16/26 19:05	01/20/26 06:49	1
2-Methylnaphthalene	<0.20		0.20	ug/L		01/16/26 19:05	01/20/26 06:49	1
Acenaphthene	<0.20		0.20	ug/L		01/16/26 19:05	01/20/26 06:49	1
Acenaphthylene	<0.20		0.20	ug/L		01/16/26 19:05	01/20/26 06:49	1
Anthracene	<0.20		0.20	ug/L		01/16/26 19:05	01/20/26 06:49	1
Benzo[a]anthracene	<0.20		0.20	ug/L		01/16/26 19:05	01/20/26 06:49	1
Benzo[a]pyrene	<0.20		0.20	ug/L		01/16/26 19:05	01/20/26 06:49	1
Benzo[b]fluoranthene	<0.20		0.20	ug/L		01/16/26 19:05	01/20/26 06:49	1
Benzo[g,h,i]perylene	<0.20		0.20	ug/L		01/16/26 19:05	01/20/26 06:49	1
Benzo[k]fluoranthene	<0.20		0.20	ug/L		01/16/26 19:05	01/20/26 06:49	1
Chrysene	<0.20		0.20	ug/L		01/16/26 19:05	01/20/26 06:49	1
Dibenz(a,h)anthracene	<0.20		0.20	ug/L		01/16/26 19:05	01/20/26 06:49	1
Fluoranthene	<0.20		0.20	ug/L		01/16/26 19:05	01/20/26 06:49	1
Fluorene	<0.20		0.20	ug/L		01/16/26 19:05	01/20/26 06:49	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20	ug/L		01/16/26 19:05	01/20/26 06:49	1
Naphthalene	<0.20		0.20	ug/L		01/16/26 19:05	01/20/26 06:49	1
Phenanthrene	<0.20		0.20	ug/L		01/16/26 19:05	01/20/26 06:49	1
Pyrene	<0.20		0.20	ug/L		01/16/26 19:05	01/20/26 06:49	1

<i>Surrogate</i>	<i>MB</i>	<i>MB</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
	<i>%Recovery</i>	<i>Qualifier</i>				
<i>2,4,6-Tribromophenol (Surr)</i>	86		28 - 127	01/16/26 19:05	01/20/26 06:49	1
<i>2-Fluorobiphenyl (Surr)</i>	72		31 - 120	01/16/26 19:05	01/20/26 06:49	1
<i>2-Fluorophenol (Surr)</i>	55		17 - 120	01/16/26 19:05	01/20/26 06:49	1
<i>Nitrobenzene-d5 (Surr)</i>	79		27 - 120	01/16/26 19:05	01/20/26 06:49	1
<i>Phenol-d6 (Surr)</i>	36		10 - 120	01/16/26 19:05	01/20/26 06:49	1
<i>p-Terphenyl-d14 (Surr)</i>	70		45 - 120	01/16/26 19:05	01/20/26 06:49	1

# QC Sample Results

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

Job ID: 380-192330-1  
SDG: Weekly: Aiea Gulch Pump 1/Pump 2

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

**Lab Sample ID: LCS 570-683542/2-A**  
**Matrix: Water**  
**Analysis Batch: 684411**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 683542**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	20.0	17.0		ug/L		85	47 - 120
2-Methylnaphthalene	20.0	16.6		ug/L		83	43 - 120
Acenaphthene	20.0	16.6		ug/L		83	60 - 132
Acenaphthylene	20.0	16.2		ug/L		81	54 - 126
Anthracene	20.0	16.2		ug/L		81	43 - 120
Benzo[a]anthracene	20.0	17.1		ug/L		85	42 - 133
Benzo[a]pyrene	20.0	17.1		ug/L		85	32 - 148
Benzo[b]fluoranthene	20.0	16.9		ug/L		84	42 - 140
Benzo[g,h,i]perylene	20.0	16.8		ug/L		84	1 - 195
Benzo[k]fluoranthene	20.0	16.8		ug/L		84	25 - 146
Chrysene	20.0	16.6		ug/L		83	44 - 140
Dibenz(a,h)anthracene	20.0	17.8		ug/L		89	1 - 200
Fluoranthene	20.0	17.3		ug/L		87	43 - 121
Fluorene	20.0	16.7		ug/L		84	70 - 120
Indeno[1,2,3-cd]pyrene	20.0	17.9		ug/L		90	1 - 151
Naphthalene	20.0	17.0		ug/L		85	36 - 120
Phenanthrene	20.0	16.8		ug/L		84	65 - 120
Pyrene	20.0	17.3		ug/L		86	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	79		28 - 127
2-Fluorobiphenyl (Surr)	74		31 - 120
2-Fluorophenol (Surr)	60		17 - 120
Nitrobenzene-d5 (Surr)	80		27 - 120
Phenol-d6 (Surr)	40		10 - 120
p-Terphenyl-d14 (Surr)	76		45 - 120

**Lab Sample ID: LCSD 570-683542/3-A**  
**Matrix: Water**  
**Analysis Batch: 684411**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 683542**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	20.0	17.4		ug/L		87	47 - 120	2	20
2-Methylnaphthalene	20.0	17.1		ug/L		86	43 - 120	3	20
Acenaphthene	20.0	16.8		ug/L		84	60 - 132	1	29
Acenaphthylene	20.0	17.1		ug/L		85	54 - 126	6	45
Anthracene	20.0	16.6		ug/L		83	43 - 120	3	40
Benzo[a]anthracene	20.0	17.3		ug/L		86	42 - 133	1	32
Benzo[a]pyrene	20.0	17.5		ug/L		88	32 - 148	3	43
Benzo[b]fluoranthene	20.0	17.3		ug/L		87	42 - 140	2	43
Benzo[g,h,i]perylene	20.0	16.5		ug/L		82	1 - 195	2	61
Benzo[k]fluoranthene	20.0	16.7		ug/L		83	25 - 146	1	38
Chrysene	20.0	16.8		ug/L		84	44 - 140	1	53
Dibenz(a,h)anthracene	20.0	17.3		ug/L		86	1 - 200	3	75
Fluoranthene	20.0	17.4		ug/L		87	43 - 121	1	40
Fluorene	20.0	17.1		ug/L		86	70 - 120	2	23
Indeno[1,2,3-cd]pyrene	20.0	17.5		ug/L		87	1 - 151	2	60
Naphthalene	20.0	16.5		ug/L		83	36 - 120	3	39

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# QC Sample Results

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

Job ID: 380-192330-1  
SDG: Weekly: Aiea Gulch Pump 1/Pump 2

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

**Lab Sample ID: LCSD 570-683542/3-A**  
**Matrix: Water**  
**Analysis Batch: 684411**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 683542**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenanthrene	20.0	16.6		ug/L		83	65 - 120	1	24
Pyrene	20.0	17.7		ug/L		89	70 - 120	3	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	78		28 - 127
2-Fluorobiphenyl (Surr)	77		31 - 120
2-Fluorophenol (Surr)	57		17 - 120
Nitrobenzene-d5 (Surr)	80		27 - 120
Phenol-d6 (Surr)	37		10 - 120
p-Terphenyl-d14 (Surr)	80		45 - 120

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

**Lab Sample ID: MB 570-683470/12**  
**Matrix: Water**  
**Analysis Batch: 683470**

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	<10		10	ug/L			01/16/26 19:18	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		38 - 134		01/16/26 19:18	1

**Lab Sample ID: LCS 570-683470/1010**  
**Matrix: Water**  
**Analysis Batch: 683470**

**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	419		ug/L		105	78 - 120

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

**Lab Sample ID: LCSD 570-683470/13**  
**Matrix: Water**  
**Analysis Batch: 683470**

**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	372	*1	ug/L		93	78 - 120	12	10

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	89		38 - 134

# QC Sample Results

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

Job ID: 380-192330-1  
SDG: Weekly: Aiea Gulch Pump 1/Pump 2

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

**Lab Sample ID: MRL 570-683470/1005**  
**Matrix: Water**  
**Analysis Batch: 683470**

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (C4-C13)	10.0	9.97	J	ug/L		100	50 - 150
<b>Surrogate</b>		<b>MRL %Recovery</b>	<b>MRL Qualifier</b>				<b>Limits</b>
4-Bromofluorobenzene (Surr)		94					38 - 134

**Lab Sample ID: 380-191956-K-1 MS**  
**Matrix: Water**  
**Analysis Batch: 683470**

**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	*1	400	349		ug/L		87	68 - 122
<b>Surrogate</b>		<b>MS %Recovery</b>		<b>MS Qualifier</b>					<b>Limits</b>
4-Bromofluorobenzene (Surr)		97							38 - 134

**Lab Sample ID: 380-191956-L-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 683470**

**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	*1	400	377		ug/L		94	68 - 122	8	18
<b>Surrogate</b>		<b>MSD %Recovery</b>		<b>MSD Qualifier</b>					<b>Limits</b>		
4-Bromofluorobenzene (Surr)		96							38 - 134		

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

**Lab Sample ID: MB 570-684016/1-A**  
**Matrix: Water**  
**Analysis Batch: 686665**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 684016**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<25		25	ug/L		01/19/26 10:29	01/24/26 20:24	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		01/19/26 10:29	01/24/26 20:24	1
C8-C18	<25		25	ug/L		01/19/26 10:29	01/24/26 20:24	1
<b>Surrogate</b>		<b>MB %Recovery</b>	<b>MB Qualifier</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
n-Octacosane (Surr)		123				01/19/26 10:29	01/24/26 20:24	1

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

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

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

Eurofins Pomona

# QC Sample Results

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

Job ID: 380-192330-1  
SDG: Weekly: Aiea Gulch Pump 1/Pump 2

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

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

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

	LCS %Recovery	LCS Qualifier	Limits
<i>Surrogate</i> <i>n-Octacosane (Surr)</i>	124		60 - 130

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

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit		
C10-C28	1600	1670		ug/L		104	56 - 127	7	23		
<i>Surrogate</i> <i>n-Octacosane (Surr)</i>											
Surrogate	%Recovery	Qualifier	Limits								
<i>n-Octacosane (Surr)</i>	130		60 - 130								

**Lab Sample ID: MRL 570-684016/4-A**  
**Matrix: Water**  
**Analysis Batch: 686665**

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits				
C10-C28	0.0200	0.0202	J	mg/L		101	50 - 150				
<i>Surrogate</i> <i>n-Octacosane (Surr)</i>											
Surrogate	%Recovery	Qualifier	Limits								
<i>n-Octacosane (Surr)</i>	122		60 - 130								

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

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
C10-C28	<26		1650	1600		ug/L		97	70 - 130		
<i>Surrogate</i> <i>n-Octacosane (Surr)</i>											
Surrogate	%Recovery	Qualifier	Limits								
<i>n-Octacosane (Surr)</i>	120		60 - 130								

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

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
C10-C28	<26		1640	1720		ug/L		105	70 - 130	7	20
<i>Surrogate</i> <i>n-Octacosane (Surr)</i>											
Surrogate	%Recovery	Qualifier	Limits								
<i>n-Octacosane (Surr)</i>	133	S1+	60 - 130								

# QC Association Summary

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

Job ID: 380-192330-1  
SDG: Weekly: Aiea Gulch Pump 1/Pump 2

## GC/MS Semi VOA

### Prep Batch: 199007

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-192330-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	525.2	
380-192330-2	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	525.2	
MB 380-199007/21-A	Method Blank	Total/NA	Water	525.2	
LCS 380-199007/23-A	Lab Control Sample	Total/NA	Water	525.2	
MRL 380-199007/22-A	Lab Control Sample	Total/NA	Water	525.2	
380-192770-H-6-A MS	Matrix Spike	Total/NA	Water	525.2	
380-192770-H-6-B MSD	Matrix Spike Duplicate	Total/NA	Water	525.2	

### Analysis Batch: 199363

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-192330-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	525.2	199007
380-192330-2	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	525.2	199007
MB 380-199007/21-A	Method Blank	Total/NA	Water	525.2	199007
LCS 380-199007/23-A	Lab Control Sample	Total/NA	Water	525.2	199007
MRL 380-199007/22-A	Lab Control Sample	Total/NA	Water	525.2	199007
380-192770-H-6-A MS	Matrix Spike	Total/NA	Water	525.2	199007
380-192770-H-6-B MSD	Matrix Spike Duplicate	Total/NA	Water	525.2	199007

### Prep Batch: 683542

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-192330-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	625.1	
380-192330-2	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	625.1	
MB 570-683542/1-A	Method Blank	Total/NA	Water	625.1	
LCS 570-683542/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 570-683542/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	

### Analysis Batch: 684411

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-192330-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	625.1 SIM	683542
380-192330-2	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	625.1 SIM	683542
MB 570-683542/1-A	Method Blank	Total/NA	Water	625.1 SIM	683542
LCS 570-683542/2-A	Lab Control Sample	Total/NA	Water	625.1 SIM	683542
LCSD 570-683542/3-A	Lab Control Sample Dup	Total/NA	Water	625.1 SIM	683542

### Analysis Batch: 684445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-192330-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	625.1	683542
380-192330-2	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	625.1	683542
MB 570-683542/1-A	Method Blank	Total/NA	Water	625.1	683542

## GC VOA

### Analysis Batch: 683470

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-192330-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	8015B GRO LL	
380-192330-2	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	8015B GRO LL	
380-192330-3	TB:AIEA GULCH WELLS P1 (331-201-TP071)	Total/NA	Water	8015B GRO LL	
380-192330-4	TB:AIEA GULCH WELLS P2 (331-202-TP072)	Total/NA	Water	8015B GRO LL	
MB 570-683470/12	Method Blank	Total/NA	Water	8015B GRO LL	
LCS 570-683470/1010	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-683470/13	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	

# QC Association Summary

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

Job ID: 380-192330-1  
 SDG: Weekly: Aiea Gulch Pump 1/Pump 2

## GC VOA (Continued)

### Analysis Batch: 683470 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MRL 570-683470/1005	Lab Control Sample	Total/NA	Water	8015B GRO LL	
380-191956-K-1 MS	Matrix Spike	Total/NA	Water	8015B GRO LL	
380-191956-L-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8015B GRO LL	

## GC Semi VOA

### Prep Batch: 684016

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-192330-2	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	3510C	
MB 570-684016/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-684016/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-684016/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-684016/4-A	Lab Control Sample	Total/NA	Water	3510C	
380-192922-A-1-A MS	Matrix Spike	Total/NA	Water	3510C	
380-192922-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

### Analysis Batch: 686665

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-192330-2	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	8015B	684016
MB 570-684016/1-A	Method Blank	Total/NA	Water	8015B	684016
LCS 570-684016/2-A	Lab Control Sample	Total/NA	Water	8015B	684016
LCSD 570-684016/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	684016
MRL 570-684016/4-A	Lab Control Sample	Total/NA	Water	8015B	684016
380-192922-A-1-A MS	Matrix Spike	Total/NA	Water	8015B	684016
380-192922-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	8015B	684016

# Lab Chronicle

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

Job ID: 380-192330-1  
SDG: Weekly: Aiea Gulch Pump 1/Pump 2

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

**Lab Sample ID: 380-192330-1**

**Date Collected: 01/12/26 10:00**

**Matrix: Drinking Water**

**Date Received: 01/14/26 09:38**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			199007	OTM3	EA POM	01/19/26 09:13
Total/NA	Analysis	525.2		1	199363	UPAC	EA POM	01/20/26 18:10
Total/NA	Prep	625.1			683542	VAW2	EET CAL 4	01/16/26 19:05
Total/NA	Analysis	625.1		1	684445	CG	EET CAL 4	01/20/26 10:05
Total/NA	Prep	625.1			683542	VAW2	EET CAL 4	01/16/26 19:05
Total/NA	Analysis	625.1 SIM		1	684411	PQS1	EET CAL 4	01/20/26 08:16
Total/NA	Analysis	8015B GRO LL		1	683470	AJG4	EET CAL 4	01/17/26 00:34

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

**Lab Sample ID: 380-192330-2**

**Date Collected: 01/12/26 10:30**

**Matrix: Drinking Water**

**Date Received: 01/14/26 09:38**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			199007	OTM3	EA POM	01/19/26 09:13
Total/NA	Analysis	525.2		1	199363	UPAC	EA POM	01/20/26 18:30
Total/NA	Prep	625.1			683542	VAW2	EET CAL 4	01/16/26 19:05
Total/NA	Analysis	625.1		1	684445	CG	EET CAL 4	01/20/26 10:29
Total/NA	Prep	625.1			683542	VAW2	EET CAL 4	01/16/26 19:05
Total/NA	Analysis	625.1 SIM		1	684411	PQS1	EET CAL 4	01/20/26 08:38
Total/NA	Analysis	8015B GRO LL		1	683470	AJG4	EET CAL 4	01/17/26 01:18
Total/NA	Prep	3510C			684016	TVD6	EET CAL 4	01/19/26 10:30
Total/NA	Analysis	8015B		1	686665	H6FE	EET CAL 4	01/24/26 22:55

**Client Sample ID: TB:AIEA GULCH WELLS P1 (331-201-TP071)**

**Lab Sample ID: 380-192330-3**

**Date Collected: 01/12/26 10:00**

**Matrix: Water**

**Date Received: 01/14/26 09:38**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	683470	AJG4	EET CAL 4	01/16/26 23:28

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

**Lab Sample ID: 380-192330-4**

**Date Collected: 01/12/26 10:30**

**Matrix: Water**

**Date Received: 01/14/26 09:38**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	683470	AJG4	EET CAL 4	01/16/26 23:06

**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: 380-192330-1  
SDG: Weekly: Aiea Gulch Pump 1/Pump 2

## Laboratory: Eurofins Pomona

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

Authority	Program	Identification Number	Expiration Date
Hawaii	State	CA00006	01-31-26
<p>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.</p>			
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	03-02-26
Arizona	State	AZ0830	11-17-26
California	Los Angeles County Sanitation Districts	9257304	07-31-26
California	SCAQMD LAP	17LA0919	11-30-26

# Accreditation/Certification Summary

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

Job ID: 380-192330-1  
SDG: Weekly: Aiea Gulch Pump 1/Pump 2

## Laboratory: Eurofins Calscience (Continued)

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

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

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# Method Summary

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

Job ID: 380-192330-1  
SDG: Weekly: Aiea Gulch Pump 1/Pump 2

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: 380-192330-1  
SDG: Weekly: Aiea Gulch Pump 1/Pump 2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	PWSID Number
380-192330-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Drinking Water	01/12/26 10:00	01/14/26 09:38	HI0000331
380-192330-2	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Drinking Water	01/12/26 10:30	01/14/26 09:38	HI0000331
380-192330-3	TB:AIEA GULCH WELLS P1 (331-201-TP071)	Water	01/12/26 10:00	01/14/26 09:38	
380-192330-4	TB:AIEA GULCH WELLS P2 (331-202-TP072)	Water	01/12/26 10:30	01/14/26 09:38	

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**Eurofins Eaton Analytical Pomona**

941 Corporate Center Drive  
 Pomona, CA 91768-2642  
 Phone (626) 386-1100

**Chain of Custody Record**



<b>Client Information</b>		Sampler Kal Edison		Lab PM Arada, Rachele		Carrier Tracking No(s):		COC No. 380-28005-2757 1			
Client Contact Kirk Iwamoto		Phone +1 808 748 5840		E-Mail Rachele.Arada@et.eurofinsus.com		State of Origin		Page Page 1 of 1			
Company City & County of Honolulu				PWSID		<b>Analysis Requested</b>					
Address 630 South Beretania Street Chemistry Lab		Due Date Requested		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 625.1, 625.1_SIM 8015B_GRO_LL - (MOD) GRO 8015B_DRO_LL_CS - HNL Ranges: C10-C24/C24-C36/C8-C18 525.2_PREC - (MOD) 525plus Plus TICs 537.1_DW_PREC - 537.1 Full List 533 - All Analytes		Total Number of containers		Job #: Preservation Codes R NaThioSO4 RA NaThio/HCl Q Na2SO3 QA Na2SO3/HCl Y Trizma I NH4 Acetate			
City Honolulu		TAT Requested (days)						Other:			
State, Zip HI, 96843		Compliance Project Δ Yes Δ No						Special Instructions/Note:			
Phone 808-748-5840 (Tel)		PO # C20525101 exp 05312023									
Email kiwamoto@hbws.org		WO #									
Project Name RED-HILL/HBWS Sites Event Desc. RUSH Weekly Red Hill		Project # 38001111									
Site Hawaii		SSOW#:									
<b>Sample Identification</b>		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	R	RA	Q	QA	Y	I
Area Gulch Pump 1		12-Jan-2026	10 00	G	Water		2	3	2	2	
Area Gulch Pump 1 (Matrix Spike)											
Area Gulch Pump 1 (Matrix Spike Duplicate)											
TB Area Gulch Pump 1		12-Jan-2026	10 00	G	Water		2				
Area Gulch Pump 2		12-Jan-2026	10 30	G	Water		2	3	2	2	
Area Gulch Pump 2 (Matrix Spike)											
Area Gulch Pump 2 (Matrix Spike Duplicate)											
TB Area Gulch Pump 2		12-Jan-2026	10 30	G	Water		2				
<b>Possible Hazard Identification</b>						<b>Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)</b>					
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological						<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months					
Deliverable Requested I, II, III, IV, Other (specify)						Special Instructions/QC Requirements					
Empty Kit Relinquished by:		Date		Time		Method of Shipment. <i>8878 7326 Pwoy</i>					
Relinquished <i>[Redacted]</i>		Date/Time <i>1/13/26 11:00</i>		Company HBWS		Received by: <i>[Signature]</i>		Date/Time <i>1/14/26 9:38</i>		Company <i>[Signature]</i>	
Relinquished by:		Date/Time:		Company		Received by:		Date/Time:		Company	
Relinquished by:		Date/Time:		Company		Received by:		Date/Time:		Company	
Custody Seals Intact. Δ Yes Δ No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks. <i>6/12/33 = 3.3 G02</i>							



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

SHIP DATE 13JAN26  
ACTWGT 62.00 LB  
CAD 258050552/INET4535

BILL RECIPIENT

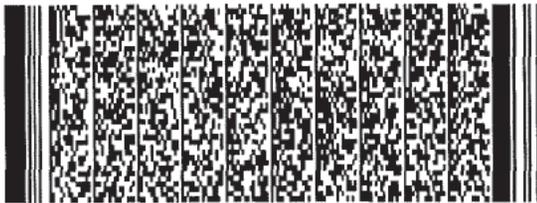
TO **EUROFINS RECEIVING DEPARTMENT**  
**EUROFINS DRINKING WATER TESTING**  
**941 CORPORATE CENTER DR**

**POMONA CA 91768**

(626) 386-1100 REF

INV. DEPT.  
PC:

58HJ3JAG359F2



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2 of 3

**WED - 14 JAN 10:30A**  
**PRIORITY OVERNIGHT**

MPS# 8878 7326 8390

0263

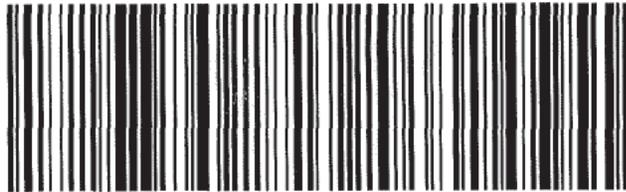
Mstr# 8878 7326 8389

0201

**WM ONTA**

**91768**

**CA-US ONT**



(631H) 36 + 0 0 - 3 6 901 - 110269  
Nancy Maskurata  
1/14/26 938

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

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# Chain of Custody Record



<b>Client Information (Sub Contract Lab)</b>		Sampler: N/A	Lab PM: Lopez, Maria	Carrier Tracking No(s): N/A	COC No: 380-294825.1														
Client Contact: Shipping/Receiving		Phone: N/A	E-Mail: Maria.Lopez@et.eurofinsus.com	State of Origin: Hawaii	Page: Page 1 of 1														
Company: Eurofins Environment Testing Southwest L			Accreditations Required (See note): State - Hawaii		Job #: 380-192330-1														
Address: 2841 Dow Avenue, Suite 100,		Due Date Requested: 1/27/2026	<b>Analysis Requested</b>																
City: Tustin		TAT Requested (days): N/A																	
State, Zip: CA, 92780		PO #: N/A	<table border="1"> <tr><td>Field Filtered Sample (Yes or No)</td><td></td></tr> <tr><td>Perform MS/MSD (Yes or No)</td><td></td></tr> <tr><td>625.1/625_Prep(MOD) Tentatively Identified Compounds (Hold)</td><td></td></tr> <tr><td>625.1_SIW/625_Prep(MOD) Extended PAH List</td><td></td></tr> <tr><td>8016B_GRO_LL_C532619C_LLHNL Ranges: C18-C24/C24-C36/CB-C18</td><td></td></tr> <tr><td>8016B_GRO_LL/8030C(MOD) GRO</td><td></td></tr> <tr><td>Total Number of containers</td><td></td></tr> </table>			Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		625.1/625_Prep(MOD) Tentatively Identified Compounds (Hold)		625.1_SIW/625_Prep(MOD) Extended PAH List		8016B_GRO_LL_C532619C_LLHNL Ranges: C18-C24/C24-C36/CB-C18		8016B_GRO_LL/8030C(MOD) GRO		Total Number of containers	
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Total Number of containers																			
Phone: 714-895-5494(Tel)		WO #: N/A																	
Email: N/A		Project #: 38001111																	
Project Name: RED-HILL		SSOW#: N/A																	
Site: Honolulu BWS Sites																			
<b>Sample Identification - Client ID (Lab ID)</b>		<b>Sample Date</b>	<b>Sample Time</b>	<b>Sample Type (C=Comp, G=grab)</b>	<b>Matrix (W=water, S=sediment, O=wastewater, BT=Tissue, A=Air)</b>	<b>Preservation Code:</b>	<b>Field Filtered Sample (Yes or No)</b>	<b>Perform MS/MSD (Yes or No)</b>	<b>625.1/625_Prep(MOD) Tentatively Identified Compounds (Hold)</b>	<b>625.1_SIW/625_Prep(MOD) Extended PAH List</b>	<b>8016B_GRO_LL_C532619C_LLHNL Ranges: C18-C24/C24-C36/CB-C18</b>	<b>8016B_GRO_LL/8030C(MOD) GRO</b>	<b>Total Number of containers</b>	<b>Special Instructions/Note:</b>					
AIEA GULCH WELLS PUMP 1 (331-201-TP071) (380-192330-1)		1/12/26	10:00 Hawaiian	G	Water		X	X	X	X			7	MRLs are needed. Confirm any hits >RL.					
AIEA GULCH WELLS PUMP 2 (331-202-TP072) (380-192330-2)		1/12/26	10:30 Hawaiian	G	Water		X	X	X	X			7	MRLs are needed. Confirm any hits >RL.					
TB:AIEA GULCH WELLS P1 (331-201-TP071) (380-192330-3)		1/12/26	10:00 Hawaiian	G	Water						X		2	MRLs are needed. Confirm any hits >RL.					
TB:AIEA GULCH WELLS P2 (331-202-TP072) (380-192330-4)		1/12/26	10:30 Hawaiian	G	Water						X		2	MRLs are needed. Confirm any hits >RL.					



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

<b>Possible Hazard Identification</b>	<b>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</b>
Unconfirmed	<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliverable Rank: 2
Special Instructions/QC Requirements:	

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: <i>[Signature]</i>	Date/Time: 1/15/26 1030	Company: <i>[Signature]</i>	Received by: <i>[Signature]</i>
Relinquished by:	Date/Time:	Company:	Received by:
Relinquished by:	Date/Time:	Company:	Received by:

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.9/3.0, 2.0/2.1 IRJ
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# Login Sample Receipt Checklist

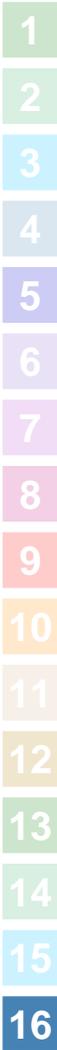
Client: City & County of Honolulu

Job Number: 380-192330-1  
SDG Number: Weekly: Aiea Gulch Pump 1/Pump 2

**Login Number: 192330**  
**List Number: 1**  
**Creator: Ngo, Theodore**

**List Source: Eurofins Pomona**

Question	Answer	Comment
The coolers custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
Samples were received on ice.	True	
Cooler(s) Temperature is acceptable.	True	
Cooler(s) Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and is legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	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: 380-192330-1  
SDG Number: Weekly: Aiea Gulch Pump 1/Pump 2

**Login Number: 192330**

**List Number: 2**

**Creator: Khana, Piyush**

**List Source: Eurofins Calscience**

**List Creation: 01/15/26 03:25 PM**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.9 /3.0 2.0 /2.1 IR-5
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	fgf5
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

