

ANALYTICAL REPORT

PREPARED FOR

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JOB DESCRIPTION

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

JOB NUMBER

380-227687-1

Eurofins Pomona

Job Notes

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

Compliance Statement

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

Authorization



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Definitions/Glossary

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

Job ID: 380-227687-1
SDG: Weekly: Aiea Gulch Wells Pump 1

Qualifiers

GC/MS Semi VOA

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

GC/MS Semi VOA TICs

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

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: 380-227687-1

Job ID: 380-227687-1

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Job Narrative 380-227687-1

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

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

Receipt

The samples were received on 7/29/2026 10:40 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.2°C.

GC/MS Semi VOA

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

Gasoline Range Organics

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

Diesel Range Organics

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

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Detection Summary

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

Job ID: 380-227687-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: 380-227687-1

☐ No Detections.

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

Lab Sample ID: 380-227687-2

☐ No Detections.

This Detection Summary does not include radiochemical test results.

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Client Sample Results

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

Job ID: 380-227687-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: 380-227687-1

Date Collected: 07/27/26 11:15

Matrix: Drinking Water

Date Received: 07/29/26 10:40

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.097		0.097	ug/L		07/30/26 07:52	07/31/26 17:04	1
2,4'-DDD	<0.097		0.097	ug/L		07/30/26 07:52	07/31/26 17:04	1
2,4'-DDE	<0.097		0.097	ug/L		07/30/26 07:52	07/31/26 17:04	1
2,4'-DDT	<0.097		0.097	ug/L		07/30/26 07:52	07/31/26 17:04	1
2,4-Dinitrotoluene	<0.097		0.097	ug/L		07/30/26 07:52	07/31/26 17:04	1
2,6-Dinitrotoluene	<0.097		0.097	ug/L		07/30/26 07:52	07/31/26 17:04	1
2-Methylnaphthalene	<0.097		0.097	ug/L		07/30/26 07:52	07/31/26 17:04	1
4,4'-DDD	<0.097		0.097	ug/L		07/30/26 07:52	07/31/26 17:04	1
4,4'-DDE	<0.097		0.097	ug/L		07/30/26 07:52	07/31/26 17:04	1
4,4'-DDT	<0.097		0.097	ug/L		07/30/26 07:52	07/31/26 17:04	1
Acenaphthene	<0.097		0.097	ug/L		07/30/26 07:52	07/31/26 17:04	1
Acenaphthylene	<0.097		0.097	ug/L		07/30/26 07:52	07/31/26 17:04	1
Acetochlor	<0.097		0.097	ug/L		07/30/26 07:52	07/31/26 17:04	1
Alachlor	<0.048		0.048	ug/L		07/30/26 07:52	07/31/26 17:04	1
alpha-BHC	<0.097		0.097	ug/L		07/30/26 07:52	07/31/26 17:04	1
alpha-Chlordane	<0.048		0.048	ug/L		07/30/26 07:52	07/31/26 17:04	1
Anthracene	<0.019		0.019	ug/L		07/30/26 07:52	07/31/26 17:04	1
Atrazine	<0.048		0.048	ug/L		07/30/26 07:52	07/31/26 17:04	1
Benz(a)anthracene	<0.048		0.048	ug/L		07/30/26 07:52	07/31/26 17:04	1
Benzo[a]pyrene	<0.019		0.019	ug/L		07/30/26 07:52	07/31/26 17:04	1
Benzo[b]fluoranthene	<0.019		0.019	ug/L		07/30/26 07:52	07/31/26 17:04	1
Benzo[g,h,i]perylene	<0.048		0.048	ug/L		07/30/26 07:52	07/31/26 17:04	1
Benzo[k]fluoranthene	<0.019		0.019	ug/L		07/30/26 07:52	07/31/26 17:04	1
beta-BHC	<0.097		0.097	ug/L		07/30/26 07:52	07/31/26 17:04	1
Bis(2-ethylhexyl) phthalate	<0.58		0.58	ug/L		07/30/26 07:52	07/31/26 17:04	1
Bromacil	<0.097		0.097	ug/L		07/30/26 07:52	07/31/26 17:04	1
Butachlor	<0.048		0.048	ug/L		07/30/26 07:52	07/31/26 17:04	1
Butylbenzylphthalate	<0.48		0.48	ug/L		07/30/26 07:52	07/31/26 17:04	1
Chlorobenzilate	<0.097		0.097	ug/L		07/30/26 07:52	07/31/26 17:04	1
Chloroneb	<0.097		0.097	ug/L		07/30/26 07:52	07/31/26 17:04	1
Chlorothalonil (Draconil, Bravo)	<0.097		0.097	ug/L		07/30/26 07:52	07/31/26 17:04	1
Chlorpyrifos	<0.048		0.048	ug/L		07/30/26 07:52	07/31/26 17:04	1
Chrysene	<0.019		0.019	ug/L		07/30/26 07:52	07/31/26 17:04	1
delta-BHC	<0.097		0.097	ug/L		07/30/26 07:52	07/31/26 17:04	1
Di(2-ethylhexyl)adipate	<0.58		0.58	ug/L		07/30/26 07:52	07/31/26 17:04	1
Dibenz(a,h)anthracene	<0.048		0.048	ug/L		07/30/26 07:52	07/31/26 17:04	1
Diclorvos (DDVP)	<0.048		0.048	ug/L		07/30/26 07:52	07/31/26 17:04	1
Dieldrin	<0.0097		0.0097	ug/L		07/30/26 07:52	07/31/26 17:04	1
Diethylphthalate	<0.48		0.48	ug/L		07/30/26 07:52	07/31/26 17:04	1
Dimethylphthalate	<0.48		0.48	ug/L		07/30/26 07:52	07/31/26 17:04	1
Di-n-butyl phthalate	<0.97		0.97	ug/L		07/30/26 07:52	07/31/26 17:04	1
Di-n-octyl phthalate	<0.097		0.097	ug/L		07/30/26 07:52	07/31/26 17:04	1
Endosulfan I (Alpha)	<0.097		0.097	ug/L		07/30/26 07:52	07/31/26 17:04	1
Endosulfan II (Beta)	<0.097		0.097	ug/L		07/30/26 07:52	07/31/26 17:04	1
Endosulfan sulfate	<0.097		0.097	ug/L		07/30/26 07:52	07/31/26 17:04	1
Endrin	<0.0097		0.0097	ug/L		07/30/26 07:52	07/31/26 17:04	1
Endrin aldehyde	<0.097		0.097	ug/L		07/30/26 07:52	07/31/26 17:04	1
EPTC	<0.097		0.097	ug/L		07/30/26 07:52	07/31/26 17:04	1

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Client Sample Results

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

Job ID: 380-227687-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: 380-227687-1

Date Collected: 07/27/26 11:15

Matrix: Drinking Water

Date Received: 07/29/26 10:40

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.097		0.097	ug/L		07/30/26 07:52	07/31/26 17:04	1
Fluorene	<0.048		0.048	ug/L		07/30/26 07:52	07/31/26 17:04	1
gamma-Chlordane	<0.048		0.048	ug/L		07/30/26 07:52	07/31/26 17:04	1
Heptachlor	<0.0097		0.0097	ug/L		07/30/26 07:52	07/31/26 17:04	1
Heptachlor epoxide (isomer B)	<0.0097		0.0097	ug/L		07/30/26 07:52	07/31/26 17:04	1
Hexachlorobenzene	<0.048		0.048	ug/L		07/30/26 07:52	07/31/26 17:04	1
Hexachlorocyclopentadiene	<0.048		0.048	ug/L		07/30/26 07:52	07/31/26 17:04	1
Indeno[1,2,3-cd]pyrene	<0.048		0.048	ug/L		07/30/26 07:52	07/31/26 17:04	1
Isophorone	<0.097		0.097	ug/L		07/30/26 07:52	07/31/26 17:04	1
Lindane	<0.0097	^3+	0.0097	ug/L		07/30/26 07:52	07/31/26 17:04	1
Malathion	<0.097		0.097	ug/L		07/30/26 07:52	07/31/26 17:04	1
Methoxychlor	<0.048		0.048	ug/L		07/30/26 07:52	07/31/26 17:04	1
Metolachlor	<0.048		0.048	ug/L		07/30/26 07:52	07/31/26 17:04	1
Molinate	<0.097		0.097	ug/L		07/30/26 07:52	07/31/26 17:04	1
Naphthalene	<0.097		0.097	ug/L		07/30/26 07:52	07/31/26 17:04	1
Parathion	<0.097		0.097	ug/L		07/30/26 07:52	07/31/26 17:04	1
Pendimethalin (Penoxaline)	<0.097		0.097	ug/L		07/30/26 07:52	07/31/26 17:04	1
Phenanthrene	<0.039		0.039	ug/L		07/30/26 07:52	07/31/26 17:04	1
Propachlor	<0.048		0.048	ug/L		07/30/26 07:52	07/31/26 17:04	1
Pyrene	<0.048		0.048	ug/L		07/30/26 07:52	07/31/26 17:04	1
Simazine	<0.048		0.048	ug/L		07/30/26 07:52	07/31/26 17:04	1
Terbacil	<0.097		0.097	ug/L		07/30/26 07:52	07/31/26 17:04	1
Terbutylazine	<0.097		0.097	ug/L		07/30/26 07:52	07/31/26 17:04	1
Thiobencarb	<0.097		0.097	ug/L		07/30/26 07:52	07/31/26 17:04	1
Total Permethrin (mixed isomers)	<0.19		0.19	ug/L		07/30/26 07:52	07/31/26 17:04	1
trans-Nonachlor	<0.048		0.048	ug/L		07/30/26 07:52	07/31/26 17:04	1
Trifluralin	<0.097		0.097	ug/L		07/30/26 07:52	07/31/26 17:04	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	07/30/26 07:52	07/31/26 17:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	95		70 - 130	07/30/26 07:52	07/31/26 17:04	1
Perylene-d12	92		70 - 130	07/30/26 07:52	07/31/26 17:04	1
Triphenylphosphate	102		70 - 130	07/30/26 07:52	07/31/26 17:04	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		08/01/26 13:14	08/10/26 10:54	1
2-Methylnaphthalene	<0.19		0.19	ug/L		08/01/26 13:14	08/10/26 10:54	1
Acenaphthene	<0.19		0.19	ug/L		08/01/26 13:14	08/10/26 10:54	1
Acenaphthylene	<0.19		0.19	ug/L		08/01/26 13:14	08/10/26 10:54	1
Anthracene	<0.19		0.19	ug/L		08/01/26 13:14	08/10/26 10:54	1
Benzo[a]anthracene	<0.19		0.19	ug/L		08/01/26 13:14	08/10/26 10:54	1
Benzo[a]pyrene	<0.19		0.19	ug/L		08/01/26 13:14	08/10/26 10:54	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		08/01/26 13:14	08/10/26 10:54	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		08/01/26 13:14	08/10/26 10:54	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		08/01/26 13:14	08/10/26 10:54	1
Chrysene	<0.19		0.19	ug/L		08/01/26 13:14	08/10/26 10:54	1

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Client Sample Results

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

Job ID: 380-227687-1
SDG: Weekly: Aiea Gulch Wells Pump 1

Client Sample ID: AIEA GULCH WELLS PUMP 1

Lab Sample ID: 380-227687-1

(331-201-TP071)

Date Collected: 07/27/26 11:15

Matrix: Drinking Water

Date Received: 07/29/26 10:40

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
Dibenz(a,h)anthracene	<0.19		0.19	ug/L		08/01/26 13:14	08/10/26 10:54	1
Fluoranthene	<0.19		0.19	ug/L		08/01/26 13:14	08/10/26 10:54	1
Fluorene	<0.19		0.19	ug/L		08/01/26 13:14	08/10/26 10:54	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		08/01/26 13:14	08/10/26 10:54	1
Naphthalene	<0.19		0.19	ug/L		08/01/26 13:14	08/10/26 10:54	1
Phenanthrene	<0.19		0.19	ug/L		08/01/26 13:14	08/10/26 10:54	1
Pyrene	<0.19		0.19	ug/L		08/01/26 13:14	08/10/26 10:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	84		28 - 127	08/01/26 13:14	08/10/26 10:54	1
2-Fluorobiphenyl (Surr)	82		31 - 120	08/01/26 13:14	08/10/26 10:54	1
2-Fluorophenol (Surr)	49		17 - 120	08/01/26 13:14	08/10/26 10:54	1
Nitrobenzene-d5 (Surr)	79		27 - 120	08/01/26 13:14	08/10/26 10:54	1
Phenol-d6 (Surr)	28		10 - 120	08/01/26 13:14	08/10/26 10:54	1
p-Terphenyl-d14 (Surr)	71		45 - 120	08/01/26 13:14	08/10/26 10:54	1

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

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	08/01/26 13:14	08/05/26 20:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	76		33 - 139	08/01/26 13:14	08/05/26 20:39	1
2-Fluorobiphenyl (Surr)	79		33 - 126	08/01/26 13:14	08/05/26 20:39	1
2-Fluorophenol (Surr)	48		12 - 120	08/01/26 13:14	08/05/26 20:39	1
Nitrobenzene-d5 (Surr)	89		36 - 120	08/01/26 13:14	08/05/26 20:39	1
Phenol-d6 (Surr)	29		10 - 120	08/01/26 13:14	08/05/26 20:39	1
p-Terphenyl-d14 (Surr)	79		47 - 131	08/01/26 13:14	08/05/26 20:39	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			08/07/26 00:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		38 - 134		08/07/26 00:01	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<26		26	ug/L		07/31/26 06:26	08/08/26 21:36	1
Motor Oil Range Organics [C24-C36]	<26		26	ug/L		07/31/26 06:26	08/08/26 21:36	1
C8-C18	<26		26	ug/L		07/31/26 06:26	08/08/26 21:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	123		60 - 130	07/31/26 06:26	08/08/26 21:36	1

Eurofins Pomona

Client Sample Results

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

Job ID: 380-227687-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: 380-227687-2

Date Collected: 07/27/26 11:15

Matrix: Water

Date Received: 07/29/26 10:40

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			08/06/26 18:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		38 - 134				08/06/26 18:04	1

Action Limit Summary

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

Job ID: 380-227687-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: 380-227687-1

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	<0.048		ug/L	2	0.048	525.2	Total/NA
Atrazine	<0.048		ug/L	3	0.048	525.2	Total/NA
Benzo[a]pyrene	<0.019		ug/L	0.2	0.019	525.2	Total/NA
Bis(2-ethylhexyl) phthalate	<0.58		ug/L	6	0.58	525.2	Total/NA
Di(2-ethylhexyl)adipate	<0.58		ug/L	400	0.58	525.2	Total/NA
Endrin	<0.0097		ug/L	2	0.0097	525.2	Total/NA
Heptachlor	<0.0097		ug/L	0.4	0.0097	525.2	Total/NA
Heptachlor epoxide (isomer B)	<0.0097		ug/L	0.2	0.0097	525.2	Total/NA
Hexachlorobenzene	<0.048		ug/L	1	0.048	525.2	Total/NA
Hexachlorocyclopentadiene	<0.048		ug/L	50	0.048	525.2	Total/NA
Lindane	<0.0097	^3+	ug/L	0.2	0.0097	525.2	Total/NA
Methoxychlor	<0.048		ug/L	40	0.048	525.2	Total/NA
Simazine	<0.048		ug/L	4	0.048	525.2	Total/NA
Benzo[a]pyrene	<0.19		ug/L	0.2	0.19	625.1 SIM	Total/NA

Surrogate Summary

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

Job ID: 380-227687-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Matrix: Drinking Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)						
		2NMX (70-130)	PRY (70-130)	TPP (70-130)				
380-227687-1	AIEA GULCH WELLS PUMP 1 (331)	95	92	102				
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)				
380-227876-B-1-A MS	Matrix Spike	96	95	104				
380-227876-B-2-A DU	Duplicate	95	71	103				
LCS 380-243405/23-A	Lab Control Sample	95	95	101				
LCSD 380-243405/24-A	Lab Control Sample Dup	94	95	102				
MB 380-243405/21-A	Method Blank	95	89	101				
MRL 380-243405/22-A	Lab Control Sample	95	90	100				
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)		
380-227687-1	AIEA GULCH WELLS PUMP 1 (331)	76	79	48	89	29	79		
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 570-777552/1-A	Method Blank	80	87	58	95	38	88		
Surrogate Legend									
TBP = 2,4,6-Tribromophenol (Surr)									
FBP = 2-Fluorobiphenyl (Surr)									
2FP = 2-Fluorophenol (Surr)									

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Surrogate Summary

Client: City & County of Honolulu

Project/Site: RED-HILL

NBZ = Nitrobenzene-d5 (Surr)

PHL6 = Phenol-d6 (Surr)

TPHd14 = p-Terphenyl-d14 (Surr)

Job ID: 380-227687-1

SDG: Weekly: Aiea Gulch Wells Pump 1

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

Matrix: Drinking Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (28-127)	FBP (31-120)	2FP (17-120)	NBZ (27-120)	PHL6 (10-120)	TPHd14 (45-120)
380-227687-1	AIEA GULCH WELLS PUMP 1 (331	84	82	49	79	28	71

Surrogate Legend

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

FBP = 2-Fluorobiphenyl (Surr)

2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

PHL6 = Phenol-d6 (Surr)

TPHd14 = p-Terphenyl-d14 (Surr)

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (28-127)	FBP (31-120)	2FP (17-120)	NBZ (27-120)	PHL6 (10-120)	TPHd14 (45-120)
380-227684-A-1-A MS	Matrix Spike	71	68	54	54	34	75
380-227684-A-1-B MSD	Matrix Spike Duplicate	70	66	54	54	33	73
LCS 570-777552/2-A	Lab Control Sample	78	73	60	58	39	84
LCSD 570-777552/3-A	Lab Control Sample Dup	81	76	67	60	43	88
MB 570-777552/1-A	Method Blank	85	73	58	75	34	72

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)					
380-227687-1	AIEA GULCH WELLS PUMP 1 (331	101					

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		BFB1 (38-134)					
380-227684-C-1 MS	Matrix Spike	93					
380-227684-C-1 MSD	Matrix Spike Duplicate	107					

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Surrogate Summary

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

Job ID: 380-227687-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	BFB1 (38-134)
380-227687-2	TB: AIEA GULCH WELLS PUMP 1 (	105
LCS 570-780257/4	Lab Control Sample	75
LCSD 570-780257/5	Lab Control Sample Dup	107
MB 570-780257/7	Method Blank	100
MRL 570-780257/6	Lab Control Sample	106
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)
380-227687-1	AIEA GULCH WELLS PUMP 1 (331	123
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)
380-227684-B-1-A MS	Matrix Spike	99
380-227684-B-1-B MSD	Matrix Spike Duplicate	108
LCS 570-777144/2-A	Lab Control Sample	102
LCSD 570-777144/3-A	Lab Control Sample Dup	89
MB 570-777144/1-A	Method Blank	105
MRL 570-777144/4-A	Lab Control Sample	96
Surrogate Legend		
OTCSN = n-Octacosane (Surr)		

QC Sample Results

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

Job ID: 380-227687-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: MB 380-243405/21-A
Matrix: Water
Analysis Batch: 243700

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 243405

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.099		0.099	ug/L		07/30/26 07:52	07/31/26 13:39	1
2,4'-DDD	<0.099		0.099	ug/L		07/30/26 07:52	07/31/26 13:39	1
2,4'-DDE	<0.099		0.099	ug/L		07/30/26 07:52	07/31/26 13:39	1
2,4'-DDT	<0.099		0.099	ug/L		07/30/26 07:52	07/31/26 13:39	1
2,4-Dinitrotoluene	<0.099		0.099	ug/L		07/30/26 07:52	07/31/26 13:39	1
2,6-Dinitrotoluene	<0.099		0.099	ug/L		07/30/26 07:52	07/31/26 13:39	1
2-Methylnaphthalene	<0.099		0.099	ug/L		07/30/26 07:52	07/31/26 13:39	1
4,4'-DDD	<0.099		0.099	ug/L		07/30/26 07:52	07/31/26 13:39	1
4,4'-DDE	<0.099		0.099	ug/L		07/30/26 07:52	07/31/26 13:39	1
4,4'-DDT	<0.099		0.099	ug/L		07/30/26 07:52	07/31/26 13:39	1
Acenaphthene	<0.099		0.099	ug/L		07/30/26 07:52	07/31/26 13:39	1
Acenaphthylene	<0.099		0.099	ug/L		07/30/26 07:52	07/31/26 13:39	1
Acetochlor	<0.099		0.099	ug/L		07/30/26 07:52	07/31/26 13:39	1
Alachlor	<0.050		0.050	ug/L		07/30/26 07:52	07/31/26 13:39	1
alpha-BHC	<0.099		0.099	ug/L		07/30/26 07:52	07/31/26 13:39	1
alpha-Chlordane	<0.050		0.050	ug/L		07/30/26 07:52	07/31/26 13:39	1
Anthracene	<0.020		0.020	ug/L		07/30/26 07:52	07/31/26 13:39	1
Atrazine	<0.050		0.050	ug/L		07/30/26 07:52	07/31/26 13:39	1
Benz(a)anthracene	<0.050		0.050	ug/L		07/30/26 07:52	07/31/26 13:39	1
Benzo[a]pyrene	<0.020		0.020	ug/L		07/30/26 07:52	07/31/26 13:39	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		07/30/26 07:52	07/31/26 13:39	1
Benzo[g,h,i]perylene	<0.050		0.050	ug/L		07/30/26 07:52	07/31/26 13:39	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		07/30/26 07:52	07/31/26 13:39	1
beta-BHC	<0.099		0.099	ug/L		07/30/26 07:52	07/31/26 13:39	1
Bis(2-ethylhexyl) phthalate	<0.60		0.60	ug/L		07/30/26 07:52	07/31/26 13:39	1
Bromacil	<0.099		0.099	ug/L		07/30/26 07:52	07/31/26 13:39	1
Butachlor	<0.050		0.050	ug/L		07/30/26 07:52	07/31/26 13:39	1
Butylbenzylphthalate	<0.50		0.50	ug/L		07/30/26 07:52	07/31/26 13:39	1
Chlorobenzilate	<0.099		0.099	ug/L		07/30/26 07:52	07/31/26 13:39	1
Chloroneb	<0.099		0.099	ug/L		07/30/26 07:52	07/31/26 13:39	1
Chlorothalonil (Draconil, Bravo)	<0.099		0.099	ug/L		07/30/26 07:52	07/31/26 13:39	1
Chlorpyrifos	<0.050		0.050	ug/L		07/30/26 07:52	07/31/26 13:39	1
Chrysene	<0.020		0.020	ug/L		07/30/26 07:52	07/31/26 13:39	1
delta-BHC	<0.099		0.099	ug/L		07/30/26 07:52	07/31/26 13:39	1
Di(2-ethylhexyl)adipate	<0.60		0.60	ug/L		07/30/26 07:52	07/31/26 13:39	1
Dibenz(a,h)anthracene	<0.050		0.050	ug/L		07/30/26 07:52	07/31/26 13:39	1
Diclorvos (DDVP)	<0.050		0.050	ug/L		07/30/26 07:52	07/31/26 13:39	1
Dieldrin	<0.0099		0.0099	ug/L		07/30/26 07:52	07/31/26 13:39	1
Diethylphthalate	<0.50		0.50	ug/L		07/30/26 07:52	07/31/26 13:39	1
Dimethylphthalate	<0.50		0.50	ug/L		07/30/26 07:52	07/31/26 13:39	1
Di-n-butyl phthalate	<0.99		0.99	ug/L		07/30/26 07:52	07/31/26 13:39	1
Di-n-octyl phthalate	<0.099		0.099	ug/L		07/30/26 07:52	07/31/26 13:39	1
Endosulfan I (Alpha)	<0.099		0.099	ug/L		07/30/26 07:52	07/31/26 13:39	1
Endosulfan II (Beta)	<0.099		0.099	ug/L		07/30/26 07:52	07/31/26 13:39	1
Endosulfan sulfate	<0.099		0.099	ug/L		07/30/26 07:52	07/31/26 13:39	1
Endrin	<0.0099		0.0099	ug/L		07/30/26 07:52	07/31/26 13:39	1
Endrin aldehyde	<0.099		0.099	ug/L		07/30/26 07:52	07/31/26 13:39	1
EPTC	<0.099		0.099	ug/L		07/30/26 07:52	07/31/26 13:39	1

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QC Sample Results

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

Job ID: 380-227687-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: MB 380-243405/21-A

Matrix: Water

Analysis Batch: 243700

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 243405

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.099		0.099	ug/L		07/30/26 07:52	07/31/26 13:39	1
Fluorene	<0.050		0.050	ug/L		07/30/26 07:52	07/31/26 13:39	1
gamma-Chlordane	<0.050		0.050	ug/L		07/30/26 07:52	07/31/26 13:39	1
Heptachlor	<0.0099		0.0099	ug/L		07/30/26 07:52	07/31/26 13:39	1
Heptachlor epoxide (isomer B)	<0.0099		0.0099	ug/L		07/30/26 07:52	07/31/26 13:39	1
Hexachlorobenzene	<0.050		0.050	ug/L		07/30/26 07:52	07/31/26 13:39	1
Hexachlorocyclopentadiene	<0.050		0.050	ug/L		07/30/26 07:52	07/31/26 13:39	1
Indeno[1,2,3-cd]pyrene	<0.050		0.050	ug/L		07/30/26 07:52	07/31/26 13:39	1
Isophorone	<0.099		0.099	ug/L		07/30/26 07:52	07/31/26 13:39	1
Lindane	<0.0099	^3+	0.0099	ug/L		07/30/26 07:52	07/31/26 13:39	1
Malathion	<0.099		0.099	ug/L		07/30/26 07:52	07/31/26 13:39	1
Methoxychlor	<0.050		0.050	ug/L		07/30/26 07:52	07/31/26 13:39	1
Metolachlor	<0.050		0.050	ug/L		07/30/26 07:52	07/31/26 13:39	1
Molinate	<0.099		0.099	ug/L		07/30/26 07:52	07/31/26 13:39	1
Naphthalene	<0.099		0.099	ug/L		07/30/26 07:52	07/31/26 13:39	1
Parathion	<0.099		0.099	ug/L		07/30/26 07:52	07/31/26 13:39	1
Pendimethalin (Penoxaline)	<0.099		0.099	ug/L		07/30/26 07:52	07/31/26 13:39	1
Phenanthrene	<0.040		0.040	ug/L		07/30/26 07:52	07/31/26 13:39	1
Propachlor	<0.050		0.050	ug/L		07/30/26 07:52	07/31/26 13:39	1
Pyrene	<0.050		0.050	ug/L		07/30/26 07:52	07/31/26 13:39	1
Simazine	<0.050		0.050	ug/L		07/30/26 07:52	07/31/26 13:39	1
Terbacil	<0.099		0.099	ug/L		07/30/26 07:52	07/31/26 13:39	1
Terbutylazine	<0.099		0.099	ug/L		07/30/26 07:52	07/31/26 13:39	1
Thiobencarb	<0.099		0.099	ug/L		07/30/26 07:52	07/31/26 13:39	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		07/30/26 07:52	07/31/26 13:39	1
trans-Nonachlor	<0.050		0.050	ug/L		07/30/26 07:52	07/31/26 13:39	1
Trifluralin	<0.099		0.099	ug/L		07/30/26 07:52	07/31/26 13:39	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Undecane	5.29	T J N	ug/L		3.22	1120-21-4	07/30/26 07:52	07/31/26 13:39	1
Phenol, 4-(1,1-dimethylpropyl)-	0.689	T J N	ug/L		4.35	80-46-6	07/30/26 07:52	07/31/26 13:39	1
Phthalic acid, isobutyl	0.907	T J N	ug/L		6.05	1000356-90-7	07/30/26 07:52	07/31/26 13:39	1
2-methylpent-3-yl ester									
9-Octadecenamide, (Z)-	3.96	T J N	ug/L		8.03	301-02-0	07/30/26 07:52	07/31/26 13:39	1
Octadecanamide	0.919	T J N	ug/L		8.14	124-26-5	07/30/26 07:52	07/31/26 13:39	1
13-Docosenamide, (Z)-	5.03	T J N	ug/L		10.60	112-84-5	07/30/26 07:52	07/31/26 13:39	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	95		70 - 130	07/30/26 07:52	07/31/26 13:39	1
Perylene-d12	89		70 - 130	07/30/26 07:52	07/31/26 13:39	1
Triphenylphosphate	101		70 - 130	07/30/26 07:52	07/31/26 13:39	1

Lab Sample ID: LCS 380-243405/23-A

Matrix: Water

Analysis Batch: 243700

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 243405

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	1.98	1.99		ug/L		100	70 - 130

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QC Sample Results

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

Job ID: 380-227687-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: LCS 380-243405/23-A

Matrix: Water

Analysis Batch: 243700

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 243405

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4'-DDD	1.98	1.95		ug/L		98	70 - 130
2,4'-DDE	1.98	1.99		ug/L		100	70 - 130
2,4'-DDT	1.98	1.95		ug/L		98	70 - 130
2,4-Dinitrotoluene	1.98	2.03		ug/L		102	70 - 130
2,6-Dinitrotoluene	1.98	1.94		ug/L		98	70 - 130
2-Methylnaphthalene	1.98	2.00		ug/L		101	70 - 130
4,4'-DDD	1.98	1.95		ug/L		98	70 - 130
4,4'-DDE	1.98	1.91		ug/L		96	70 - 130
4,4'-DDT	1.98	2.02		ug/L		102	70 - 130
Acenaphthene	1.98	1.99		ug/L		100	70 - 130
Acenaphthylene	1.98	1.96		ug/L		99	70 - 130
Acetochlor	1.98	1.94		ug/L		98	70 - 130
Alachlor	1.98	1.92		ug/L		97	70 - 130
alpha-BHC	1.98	1.97		ug/L		99	70 - 130
alpha-Chlordane	1.98	1.88		ug/L		95	70 - 130
Anthracene	1.98	1.83		ug/L		93	70 - 130
Atrazine	1.98	2.09		ug/L		105	70 - 130
Benz(a)anthracene	1.98	2.07		ug/L		104	70 - 130
Benzo[a]pyrene	1.98	1.98		ug/L		100	70 - 130
Benzo[b]fluoranthene	1.98	2.00		ug/L		101	70 - 130
Benzo[g,h,i]perylene	1.98	1.91		ug/L		96	70 - 130
Benzo[k]fluoranthene	1.98	2.02		ug/L		102	70 - 130
beta-BHC	1.98	2.05		ug/L		103	70 - 130
Bis(2-ethylhexyl) phthalate	1.98	1.89		ug/L		96	70 - 130
Bromacil	1.98	1.84		ug/L		93	70 - 130
Butachlor	1.98	2.00		ug/L		101	70 - 130
Butylbenzylphthalate	1.98	2.15		ug/L		109	70 - 130
Chlorobenzilate	1.98	1.84		ug/L		93	70 - 130
Chloroneb	1.98	1.99		ug/L		100	70 - 130
Chlorothalonil (Draconil, Bravo)	1.98	2.04		ug/L		103	70 - 130
Chlorpyrifos	1.98	1.98		ug/L		100	70 - 130
Chrysene	1.98	2.02		ug/L		102	70 - 130
delta-BHC	1.98	1.98		ug/L		100	70 - 130
Di(2-ethylhexyl)adipate	1.98	2.14		ug/L		108	70 - 130
Dibenz(a,h)anthracene	1.98	1.82		ug/L		92	70 - 130
Diclorvos (DDVP)	1.98	1.93		ug/L		97	70 - 130
Dieldrin	1.98	1.83		ug/L		92	70 - 130
Diethylphthalate	1.98	2.10		ug/L		106	70 - 130
Dimethylphthalate	1.98	2.01		ug/L		101	70 - 130
Di-n-butyl phthalate	3.97	4.40		ug/L		111	70 - 130
Di-n-octyl phthalate	1.98	1.86		ug/L		94	70 - 130
Endosulfan I (Alpha)	1.98	1.83		ug/L		92	70 - 130
Endosulfan II (Beta)	1.98	1.94		ug/L		98	70 - 130
Endosulfan sulfate	1.98	1.88		ug/L		95	70 - 130
Endrin	1.98	1.85		ug/L		93	70 - 130
Endrin aldehyde	1.98	1.86		ug/L		94	60 - 130
EPTC	1.98	1.95		ug/L		99	70 - 130
Fluoranthene	1.98	2.13		ug/L		107	70 - 130
Fluorene	1.98	2.04		ug/L		103	70 - 130

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QC Sample Results

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

Job ID: 380-227687-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: LCS 380-243405/23-A

Matrix: Water

Analysis Batch: 243700

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 243405

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
gamma-Chlordane	1.98	1.86		ug/L		94	70 - 130
Heptachlor	1.98	1.86		ug/L		94	70 - 130
Heptachlor epoxide (isomer B)	1.98	1.83		ug/L		92	70 - 130
Hexachlorobenzene	1.98	1.88		ug/L		95	70 - 130
Hexachlorocyclopentadiene	1.98	1.90		ug/L		96	70 - 130
Indeno[1,2,3-cd]pyrene	1.98	1.87		ug/L		94	70 - 130
Isophorone	1.98	1.91		ug/L		96	70 - 130
Lindane	1.98	2.02		ug/L		102	70 - 130
Malathion	1.98	1.97		ug/L		99	70 - 130
Methoxychlor	1.98	2.09		ug/L		106	70 - 130
Metolachlor	1.98	1.88		ug/L		95	70 - 130
Molinate	1.98	2.01		ug/L		102	70 - 130
Naphthalene	1.98	1.88		ug/L		95	70 - 130
Parathion	1.98	2.05		ug/L		104	70 - 130
Pendimethalin (Penoxaline)	1.98	1.93		ug/L		97	70 - 130
Phenanthrene	1.98	1.94		ug/L		98	70 - 130
Propachlor	1.98	2.03		ug/L		102	70 - 130
Pyrene	1.98	2.07		ug/L		104	70 - 130
Simazine	1.98	2.02		ug/L		102	70 - 130
Terbacil	1.98	1.97		ug/L		99	70 - 130
Terbutylazine	1.98	2.10		ug/L		106	70 - 130
Thiobencarb	1.98	2.09		ug/L		105	70 - 130
trans-Nonachlor	1.98	1.84		ug/L		93	70 - 130
Trifluralin	1.98	1.88		ug/L		95	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Nitro-m-xylene	95		70 - 130
Perylene-d12	95		70 - 130
Triphenylphosphate	101		70 - 130

Lab Sample ID: LCSD 380-243405/24-A

Matrix: Water

Analysis Batch: 243700

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 243405

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	1.98	1.99		ug/L		101	70 - 130	0	20
2,4'-DDD	1.98	1.95		ug/L		98	70 - 130	0	20
2,4'-DDE	1.98	2.02		ug/L		102	70 - 130	1	20
2,4'-DDT	1.98	1.97		ug/L		99	70 - 130	1	20
2,4-Dinitrotoluene	1.98	2.09		ug/L		106	70 - 130	3	20
2,6-Dinitrotoluene	1.98	2.03		ug/L		103	70 - 130	5	20
2-Methylnaphthalene	1.98	2.01		ug/L		102	70 - 130	1	20
4,4'-DDD	1.98	1.96		ug/L		99	70 - 130	0	20
4,4'-DDE	1.98	1.96		ug/L		99	70 - 130	2	20
4,4'-DDT	1.98	2.03		ug/L		102	70 - 130	0	20
Acenaphthene	1.98	1.96		ug/L		99	70 - 130	2	20
Acenaphthylene	1.98	2.02		ug/L		102	70 - 130	3	20
Acetochlor	1.98	1.96		ug/L		99	70 - 130	2	20

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QC Sample Results

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

Job ID: 380-227687-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: LCSD 380-243405/24-A

Matrix: Water

Analysis Batch: 243700

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 243405

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Alachlor	1.98	1.93		ug/L		98	70 - 130	1	20
alpha-BHC	1.98	2.00		ug/L		101	70 - 130	1	20
alpha-Chlordane	1.98	1.90		ug/L		96	70 - 130	1	20
Anthracene	1.98	1.83		ug/L		92	70 - 130	0	20
Atrazine	1.98	2.14		ug/L		108	70 - 130	2	20
Benz(a)anthracene	1.98	2.08		ug/L		105	70 - 130	1	20
Benzo[a]pyrene	1.98	1.99		ug/L		100	70 - 130	0	20
Benzo[b]fluoranthene	1.98	2.08		ug/L		105	70 - 130	4	20
Benzo[g,h,i]perylene	1.98	1.96		ug/L		99	70 - 130	3	20
Benzo[k]fluoranthene	1.98	1.92		ug/L		97	70 - 130	5	20
beta-BHC	1.98	2.06		ug/L		104	70 - 130	1	20
Bis(2-ethylhexyl) phthalate	1.98	1.97		ug/L		100	70 - 130	4	20
Bromacil	1.98	1.90		ug/L		96	70 - 130	3	20
Butachlor	1.98	2.02		ug/L		102	70 - 130	1	20
Butylbenzylphthalate	1.98	2.13		ug/L		107	70 - 130	1	20
Chlorobenzilate	1.98	1.87		ug/L		94	70 - 130	2	20
Chloroneb	1.98	2.00		ug/L		101	70 - 130	1	20
Chlorothalonil (Draconil, Bravo)	1.98	2.04		ug/L		103	70 - 130	0	20
Chlorpyrifos	1.98	2.00		ug/L		101	70 - 130	1	20
Chrysene	1.98	1.97		ug/L		100	70 - 130	2	20
delta-BHC	1.98	2.01		ug/L		101	70 - 130	2	20
Di(2-ethylhexyl)adipate	1.98	2.17		ug/L		110	70 - 130	1	20
Dibenz(a,h)anthracene	1.98	1.88		ug/L		95	70 - 130	3	20
Diclorvos (DDVP)	1.98	1.95		ug/L		98	70 - 130	1	20
Dieldrin	1.98	1.84		ug/L		93	70 - 130	1	20
Diethylphthalate	1.98	2.12		ug/L		107	70 - 130	1	20
Dimethylphthalate	1.98	2.03		ug/L		103	70 - 130	1	20
Di-n-butyl phthalate	3.96	4.58		ug/L		116	70 - 130	4	20
Di-n-octyl phthalate	1.98	2.01		ug/L		102	70 - 130	8	20
Endosulfan I (Alpha)	1.98	1.83		ug/L		92	70 - 130	0	20
Endosulfan II (Beta)	1.98	1.89		ug/L		96	70 - 130	2	20
Endosulfan sulfate	1.98	1.85		ug/L		93	70 - 130	2	20
Endrin	1.98	1.87		ug/L		95	70 - 130	1	20
Endrin aldehyde	1.98	1.91		ug/L		96	60 - 130	3	20
EPTC	1.98	1.95		ug/L		98	70 - 130	0	20
Fluoranthene	1.98	2.14		ug/L		108	70 - 130	1	20
Fluorene	1.98	2.04		ug/L		103	70 - 130	0	20
gamma-Chlordane	1.98	1.87		ug/L		94	70 - 130	1	20
Heptachlor	1.98	1.87		ug/L		94	70 - 130	1	20
Heptachlor epoxide (isomer B)	1.98	1.84		ug/L		93	70 - 130	1	20
Hexachlorobenzene	1.98	1.88		ug/L		95	70 - 130	0	20
Hexachlorocyclopentadiene	1.98	1.89		ug/L		95	70 - 130	0	20
Indeno[1,2,3-cd]pyrene	1.98	1.95		ug/L		99	70 - 130	5	20
Isophorone	1.98	1.91		ug/L		96	70 - 130	0	20
Lindane	1.98	2.01		ug/L		102	70 - 130	0	20
Malathion	1.98	2.00		ug/L		101	70 - 130	1	20
Methoxychlor	1.98	2.16		ug/L		109	70 - 130	3	20
Metolachlor	1.98	1.90		ug/L		96	70 - 130	1	20
Molinate	1.98	2.04		ug/L		103	70 - 130	1	20

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QC Sample Results

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

Job ID: 380-227687-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: LCSD 380-243405/24-A

Matrix: Water

Analysis Batch: 243700

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 243405

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Naphthalene	1.98	1.86		ug/L		94	70 - 130	1	20
Parathion	1.98	2.09		ug/L		105	70 - 130	2	20
Pendimethalin (Penoxaline)	1.98	1.97		ug/L		100	70 - 130	2	20
Phenanthrene	1.98	1.96		ug/L		99	70 - 130	1	20
Propachlor	1.98	2.06		ug/L		104	70 - 130	1	20
Pyrene	1.98	2.08		ug/L		105	70 - 130	0	20
Simazine	1.98	2.11		ug/L		106	70 - 130	4	20
Terbacil	1.98	2.02		ug/L		102	70 - 130	3	20
Terbutylazine	1.98	2.16		ug/L		109	70 - 130	3	20
Thiobencarb	1.98	2.11		ug/L		106	70 - 130	1	20
trans-Nonachlor	1.98	1.86		ug/L		94	70 - 130	1	20
Trifluralin	1.98	1.92		ug/L		97	70 - 130	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Nitro-m-xylene	94		70 - 130
Perylene-d12	95		70 - 130
Triphenylphosphate	102		70 - 130

Lab Sample ID: MRL 380-243405/22-A

Matrix: Water

Analysis Batch: 243700

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 243405

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	0.0990	0.0942	J	ug/L		95	50 - 150
2,4'-DDD	0.0990	0.0905	J	ug/L		91	50 - 150
2,4'-DDE	0.0990	0.0989	J	ug/L		100	50 - 150
2,4'-DDT	0.0990	0.107		ug/L		108	50 - 150
2,4-Dinitrotoluene	0.0990	0.117		ug/L		119	50 - 150
2,6-Dinitrotoluene	0.0990	0.108		ug/L		109	50 - 150
2-Methylnaphthalene	0.0990	0.0943	J	ug/L		95	50 - 150
4,4'-DDD	0.0990	0.103		ug/L		104	50 - 150
4,4'-DDE	0.0990	0.103		ug/L		104	50 - 150
4,4'-DDT	0.0990	0.113		ug/L		114	50 - 150
Acenaphthene	0.0990	0.0998		ug/L		101	50 - 150
Acenaphthylene	0.0990	0.0941	J	ug/L		95	50 - 150
Acetochlor	0.0990	0.0978	J	ug/L		99	50 - 150
Alachlor	0.0495	0.0570		ug/L		115	50 - 150
alpha-BHC	0.0990	0.104		ug/L		105	50 - 150
alpha-Chlordane	0.0248	<0.029		ug/L		106	50 - 150
Anthracene	0.0198	0.0230		ug/L		116	50 - 150
Atrazine	0.0495	0.0589		ug/L		119	50 - 150
Benz(a)anthracene	0.0495	0.0570		ug/L		115	50 - 150
Benzo[a]pyrene	0.0198	0.0216		ug/L		109	50 - 150
Benzo[b]fluoranthene	0.0198	0.0222		ug/L		112	50 - 150
Benzo[g,h,i]perylene	0.0495	0.0487	J	ug/L		98	50 - 150
Benzo[k]fluoranthene	0.0198	0.0251		ug/L		127	50 - 150
beta-BHC	0.0990	0.110		ug/L		111	50 - 150
Bis(2-ethylhexyl) phthalate	0.594	0.627		ug/L		105	50 - 150

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QC Sample Results

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

Job ID: 380-227687-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: MRL 380-243405/22-A

Matrix: Water

Analysis Batch: 243700

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 243405

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Bromacil	0.0990	0.111		ug/L		112	50 - 150
Butachlor	0.0495	0.0532		ug/L		107	50 - 150
Butylbenzylphthalate	0.495	0.597		ug/L		121	50 - 150
Chlorobenzilate	0.0990	0.0951	J	ug/L		96	50 - 150
Chloroneb	0.0990	0.105		ug/L		106	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0990	0.108		ug/L		109	50 - 150
Chlorpyrifos	0.0495	0.0483	J	ug/L		98	50 - 150
Chrysene	0.0198	0.0225		ug/L		113	50 - 150
delta-BHC	0.0990	0.106		ug/L		107	50 - 150
Di(2-ethylhexyl)adipate	0.594	0.720		ug/L		121	50 - 150
Dibenz(a,h)anthracene	0.0495	0.0433	J	ug/L		87	50 - 150
Diclorvos (DDVP)	0.0495	0.0527		ug/L		106	50 - 150
Dieldrin	0.00990	0.0128		ug/L		129	50 - 150
Diethylphthalate	0.495	0.575		ug/L		116	50 - 150
Dimethylphthalate	0.495	0.542		ug/L		109	50 - 150
Di-n-butyl phthalate	0.495	0.932	J	ug/L		188	49 - 243
Di-n-octyl phthalate	0.0990	0.101		ug/L		102	50 - 150
Endosulfan I (Alpha)	0.0990	0.0732	J	ug/L		74	50 - 150
Endosulfan II (Beta)	0.0990	0.101		ug/L		102	50 - 150
Endosulfan sulfate	0.0990	0.112		ug/L		113	50 - 150
Endrin	0.00990	0.00790	J	ug/L		80	50 - 150
Endrin aldehyde	0.0990	0.102		ug/L		103	50 - 150
EPTC	0.0990	0.0958	J	ug/L		97	50 - 150
Fluoranthene	0.0990	0.106		ug/L		108	50 - 150
Fluorene	0.0495	0.0534		ug/L		108	50 - 150
gamma-Chlordane	0.0248	0.0238	J	ug/L		96	50 - 150
Heptachlor	0.00990	0.00968	J	ug/L		98	50 - 150
Heptachlor epoxide (isomer B)	0.00990	0.0114		ug/L		116	50 - 150
Hexachlorobenzene	0.0495	0.0482	J	ug/L		97	50 - 150
Hexachlorocyclopentadiene	0.0495	0.0441	J	ug/L		89	50 - 150
Indeno[1,2,3-cd]pyrene	0.0495	0.0487	J	ug/L		98	50 - 150
Isophorone	0.0990	0.0992		ug/L		100	50 - 150
Lindane	0.00990	0.0156	^3+	ug/L		157	50 - 150
Malathion	0.0990	0.0954	J	ug/L		96	50 - 150
Methoxychlor	0.0495	0.0561		ug/L		113	50 - 150
Metolachlor	0.0495	0.0508		ug/L		103	50 - 150
Molinate	0.0990	0.107		ug/L		108	50 - 150
Naphthalene	0.0990	0.0612	J	ug/L		62	50 - 150
Parathion	0.0990	0.0842	J	ug/L		85	50 - 150
Pendimethalin (Penoxaline)	0.0990	0.0926	J	ug/L		93	50 - 150
Phenanthrene	0.0396	0.0431		ug/L		109	50 - 150
Propachlor	0.0495	0.0541		ug/L		109	50 - 150
Pyrene	0.0495	0.0528		ug/L		107	50 - 150
Simazine	0.0495	0.0550		ug/L		111	50 - 150
Terbacil	0.0990	0.0901	J	ug/L		91	50 - 150
Terbuthylazine	0.0990	0.107		ug/L		108	50 - 150
Thiobencarb	0.0990	0.112		ug/L		113	50 - 150
trans-Nonachlor	0.0248	<0.026		ug/L		95	50 - 150
Trifluralin	0.0990	0.0865	J	ug/L		87	50 - 150

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QC Sample Results

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

Job ID: 380-227687-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Surrogate	MRL %Recovery	MRL Qualifier	Limits
2-Nitro-m-xylene	95		70 - 130
Perylene-d12	90		70 - 130
Triphenylphosphate	100		70 - 130

Lab Sample ID: 380-227876-B-1-A MS
Matrix: Water
Analysis Batch: 243700

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 243405

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.097		1.91	1.95		ug/L		102	70 - 130
2,4'-DDD	<0.097		1.91	1.90		ug/L		99	70 - 130
2,4'-DDE	<0.097		1.91	1.94		ug/L		101	70 - 130
2,4'-DDT	<0.097		1.91	1.93		ug/L		101	70 - 130
2,4-Dinitrotoluene	<0.097		1.91	2.23		ug/L		116	70 - 130
2,6-Dinitrotoluene	<0.097		1.91	2.14		ug/L		112	70 - 130
2-Methylnaphthalene	<0.097		1.91	1.95		ug/L		102	70 - 130
4,4'-DDD	<0.097		1.91	1.95		ug/L		102	70 - 130
4,4'-DDE	<0.097		1.91	1.88		ug/L		98	70 - 130
4,4'-DDT	<0.097		1.91	1.98		ug/L		104	70 - 130
Acenaphthene	<0.097		1.91	1.93		ug/L		101	70 - 130
Acenaphthylene	<0.097		1.91	1.98		ug/L		104	70 - 130
Acetochlor	<0.097		1.91	1.98		ug/L		103	70 - 130
Alachlor	<0.048		1.91	1.94		ug/L		102	70 - 130
alpha-BHC	<0.097		1.91	1.97		ug/L		103	70 - 130
alpha-Chlordane	<0.048		1.91	1.86		ug/L		97	70 - 130
Anthracene	<0.019		1.91	1.71		ug/L		89	70 - 130
Atrazine	<0.048		1.91	2.11		ug/L		110	70 - 130
Benz(a)anthracene	<0.048		1.91	2.05		ug/L		107	70 - 130
Benzo[a]pyrene	<0.019		1.91	1.92		ug/L		100	70 - 130
Benzo[b]fluoranthene	<0.019		1.91	1.97		ug/L		103	70 - 130
Benzo[g,h,i]perylene	<0.048		1.91	1.89		ug/L		99	70 - 130
Benzo[k]fluoranthene	<0.019		1.91	1.98		ug/L		103	70 - 130
beta-BHC	<0.097		1.91	2.06		ug/L		107	70 - 130
Bis(2-ethylhexyl) phthalate	<0.58		1.91	1.85		ug/L		97	70 - 130
Bromacil	<0.097		1.91	2.14		ug/L		112	70 - 130
Butachlor	<0.048		1.91	2.04		ug/L		107	70 - 130
Butylbenzylphthalate	<0.48		1.91	2.19		ug/L		114	70 - 130
Chlorobenzilate	<0.097		1.91	1.97		ug/L		103	70 - 130
Chloroneb	<0.097		1.91	1.96		ug/L		102	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.097		1.91	2.02		ug/L		106	70 - 130
Chlorpyrifos	<0.048		1.91	2.01		ug/L		105	70 - 130
Chrysene	<0.019		1.91	1.95		ug/L		102	70 - 130
delta-BHC	<0.097		1.91	1.98		ug/L		103	70 - 130
Di(2-ethylhexyl)adipate	<0.58		1.91	2.09		ug/L		109	70 - 130
Dibenz(a,h)anthracene	<0.048		1.91	1.84		ug/L		96	70 - 130
Diclorvos (DDVP)	<0.048		1.91	1.99		ug/L		104	70 - 130
Dieldrin	<0.0097		1.91	1.84		ug/L		96	70 - 130
Diethylphthalate	<0.48		1.91	2.11		ug/L		110	70 - 130
Dimethylphthalate	<0.48		1.91	2.03		ug/L		106	70 - 130
Di-n-butyl phthalate	<0.97		3.83	4.64		ug/L		103	70 - 130
Di-n-octyl phthalate	<0.097		1.91	1.86		ug/L		97	70 - 130

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QC Sample Results

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

Job ID: 380-227687-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: 380-227876-B-1-A MS

Matrix: Water

Analysis Batch: 243700

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 243405

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Endosulfan I (Alpha)	<0.097		1.91	1.80		ug/L		94	70 - 130
Endosulfan II (Beta)	<0.097		1.91	1.89		ug/L		98	70 - 130
Endosulfan sulfate	<0.097		1.91	1.82		ug/L		95	70 - 130
Endrin	<0.0097		1.91	1.85		ug/L		97	70 - 130
Endrin aldehyde	<0.097		1.91	1.59		ug/L		83	60 - 130
EPTC	<0.097		1.91	1.90		ug/L		99	70 - 130
Fluoranthene	<0.097		1.91	2.13		ug/L		111	70 - 130
Fluorene	<0.048		1.91	2.00		ug/L		105	70 - 130
gamma-Chlordane	<0.048		1.91	1.84		ug/L		96	70 - 130
Heptachlor	<0.0097		1.91	1.86		ug/L		97	70 - 130
Heptachlor epoxide (isomer B)	<0.0097		1.91	1.83		ug/L		96	70 - 130
Hexachlorobenzene	<0.048		1.91	1.85		ug/L		97	70 - 130
Hexachlorocyclopentadiene	<0.048		1.91	2.01		ug/L		104	70 - 130
Indeno[1,2,3-cd]pyrene	<0.048		1.91	1.97		ug/L		103	70 - 130
Isophorone	<0.097		1.91	1.89		ug/L		99	70 - 130
Lindane	<0.0097	^3+	1.91	2.01		ug/L		105	70 - 130
Malathion	<0.097		1.91	2.03		ug/L		106	70 - 130
Methoxychlor	<0.048		1.91	2.16		ug/L		113	70 - 130
Metolachlor	<0.048		1.91	1.90		ug/L		99	70 - 130
Molinate	<0.097		1.91	2.00		ug/L		104	70 - 130
Naphthalene	<0.097		1.91	1.80		ug/L		94	70 - 130
Parathion	<0.097		1.91	2.16		ug/L		113	70 - 130
Pendimethalin (Penoxaline)	<0.097		1.91	2.08		ug/L		109	70 - 130
Phenanthrene	<0.039		1.91	1.91		ug/L		100	70 - 130
Propachlor	<0.048		1.91	2.10		ug/L		110	70 - 130
Pyrene	<0.048		1.91	2.05		ug/L		107	70 - 130
Simazine	<0.048		1.91	2.01		ug/L		105	70 - 130
Terbacil	<0.097		1.91	2.12		ug/L		111	70 - 130
Terbutylazine	<0.097		1.91	2.13		ug/L		111	70 - 130
Thiobencarb	<0.097		1.91	2.09		ug/L		109	70 - 130
trans-Nonachlor	<0.048		1.91	1.83		ug/L		96	70 - 130
Trifluralin	<0.097		1.91	1.99		ug/L		104	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Nitro-m-xylene	96		70 - 130
Perylene-d12	95		70 - 130
Triphenylphosphate	104		70 - 130

Lab Sample ID: 380-227876-B-2-A DU

Matrix: Water

Analysis Batch: 243700

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 243405

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

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QC Sample Results

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

Job ID: 380-227687-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: 380-227876-B-2-A DU

Matrix: Water

Analysis Batch: 243700

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 243405

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

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QC Sample Results

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

Job ID: 380-227687-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: 380-227876-B-2-A DU

Matrix: Water

Analysis Batch: 243700

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 243405

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

Surrogate	%Recovery	DU Qualifier	Limits
2-Nitro-m-xylene	95		70 - 130
Perylene-d12	71		70 - 130
Triphenylphosphate	103		70 - 130

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

Lab Sample ID: MB 570-777552/1-A

Matrix: Water

Analysis Batch: 779378

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 777552

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	07/31/26 17:01	08/05/26 08:13	1

Surrogate	%Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	80		33 - 139	07/31/26 17:01	08/05/26 08:13	1
2-Fluorobiphenyl (Surr)	87		33 - 126	07/31/26 17:01	08/05/26 08:13	1
2-Fluorophenol (Surr)	58		12 - 120	07/31/26 17:01	08/05/26 08:13	1
Nitrobenzene-d5 (Surr)	95		36 - 120	07/31/26 17:01	08/05/26 08:13	1
Phenol-d6 (Surr)	38		10 - 120	07/31/26 17:01	08/05/26 08:13	1
p-Terphenyl-d14 (Surr)	88		47 - 131	07/31/26 17:01	08/05/26 08:13	1

Eurofins Pomona

QC Sample Results

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

Job ID: 380-227687-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: MB 570-777552/1-A

Matrix: Water

Analysis Batch: 777955

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 777552

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.20		0.20	ug/L		07/31/26 17:01	08/02/26 14:22	1
2-Methylnaphthalene	<0.20		0.20	ug/L		07/31/26 17:01	08/02/26 14:22	1
Acenaphthene	<0.20		0.20	ug/L		07/31/26 17:01	08/02/26 14:22	1
Acenaphthylene	<0.20		0.20	ug/L		07/31/26 17:01	08/02/26 14:22	1
Anthracene	<0.20		0.20	ug/L		07/31/26 17:01	08/02/26 14:22	1
Benzo[a]anthracene	<0.20		0.20	ug/L		07/31/26 17:01	08/02/26 14:22	1
Benzo[a]pyrene	<0.20		0.20	ug/L		07/31/26 17:01	08/02/26 14:22	1
Benzo[b]fluoranthene	<0.20		0.20	ug/L		07/31/26 17:01	08/02/26 14:22	1
Benzo[g,h,i]perylene	<0.20		0.20	ug/L		07/31/26 17:01	08/02/26 14:22	1
Benzo[k]fluoranthene	<0.20		0.20	ug/L		07/31/26 17:01	08/02/26 14:22	1
Chrysene	<0.20		0.20	ug/L		07/31/26 17:01	08/02/26 14:22	1
Dibenz(a,h)anthracene	<0.20		0.20	ug/L		07/31/26 17:01	08/02/26 14:22	1
Fluoranthene	<0.20		0.20	ug/L		07/31/26 17:01	08/02/26 14:22	1
Fluorene	<0.20		0.20	ug/L		07/31/26 17:01	08/02/26 14:22	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20	ug/L		07/31/26 17:01	08/02/26 14:22	1
Naphthalene	<0.20		0.20	ug/L		07/31/26 17:01	08/02/26 14:22	1
Phenanthrene	<0.20		0.20	ug/L		07/31/26 17:01	08/02/26 14:22	1
Pyrene	<0.20		0.20	ug/L		07/31/26 17:01	08/02/26 14:22	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	85		28 - 127	07/31/26 17:01	08/02/26 14:22	1
2-Fluorobiphenyl (Surr)	73		31 - 120	07/31/26 17:01	08/02/26 14:22	1
2-Fluorophenol (Surr)	58		17 - 120	07/31/26 17:01	08/02/26 14:22	1
Nitrobenzene-d5 (Surr)	75		27 - 120	07/31/26 17:01	08/02/26 14:22	1
Phenol-d6 (Surr)	34		10 - 120	07/31/26 17:01	08/02/26 14:22	1
p-Terphenyl-d14 (Surr)	72		45 - 120	07/31/26 17:01	08/02/26 14:22	1

Lab Sample ID: LCS 570-777552/2-A

Matrix: Water

Analysis Batch: 777955

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 777552

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	20.0	11.0		ug/L		55	47 - 120
2-Methylnaphthalene	20.0	11.1		ug/L		55	43 - 120
Acenaphthene	20.0	14.3		ug/L		72	60 - 132
Acenaphthylene	20.0	14.0		ug/L		70	54 - 126
Anthracene	20.0	13.7		ug/L		69	43 - 120
Benzo[a]anthracene	20.0	16.1		ug/L		81	42 - 133
Benzo[a]pyrene	20.0	16.7		ug/L		83	32 - 148
Benzo[b]fluoranthene	20.0	15.9		ug/L		80	42 - 140
Benzo[g,h,i]perylene	20.0	14.8		ug/L		74	1 - 195
Benzo[k]fluoranthene	20.0	14.9		ug/L		74	25 - 146
Chrysene	20.0	15.3		ug/L		77	44 - 140
Dibenz(a,h)anthracene	20.0	14.9		ug/L		74	1 - 200
Fluoranthene	20.0	14.9		ug/L		75	43 - 121
Fluorene	20.0	15.4		ug/L		77	70 - 120
Indeno[1,2,3-cd]pyrene	20.0	14.7		ug/L		74	1 - 151
Naphthalene	20.0	9.84		ug/L		49	36 - 120

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QC Sample Results

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

Job ID: 380-227687-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: LCS 570-777552/2-A

Matrix: Water

Analysis Batch: 777955

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 777552

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phenanthrene	20.0	14.3		ug/L		71	65 - 120
Pyrene	20.0	16.3		ug/L		81	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	78		28 - 127
2-Fluorobiphenyl (Surr)	73		31 - 120
2-Fluorophenol (Surr)	60		17 - 120
Nitrobenzene-d5 (Surr)	58		27 - 120
Phenol-d6 (Surr)	39		10 - 120
p-Terphenyl-d14 (Surr)	84		45 - 120

Lab Sample ID: LCSD 570-777552/3-A

Matrix: Water

Analysis Batch: 777955

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 777552

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	20.0	11.4		ug/L		57	47 - 120	3	20
2-Methylnaphthalene	20.0	11.4		ug/L		57	43 - 120	3	20
Acenaphthene	20.0	14.9		ug/L		74	60 - 132	4	29
Acenaphthylene	20.0	14.7		ug/L		74	54 - 126	5	45
Anthracene	20.0	14.5		ug/L		73	43 - 120	6	40
Benzo[a]anthracene	20.0	17.1		ug/L		86	42 - 133	6	32
Benzo[a]pyrene	20.0	17.8		ug/L		89	32 - 148	7	43
Benzo[b]fluoranthene	20.0	17.0		ug/L		85	42 - 140	6	43
Benzo[g,h,i]perylene	20.0	15.6		ug/L		78	1 - 195	6	61
Benzo[k]fluoranthene	20.0	16.0		ug/L		80	25 - 146	7	38
Chrysene	20.0	16.2		ug/L		81	44 - 140	5	53
Dibenz(a,h)anthracene	20.0	15.6		ug/L		78	1 - 200	5	75
Fluoranthene	20.0	15.8		ug/L		79	43 - 121	6	40
Fluorene	20.0	16.2		ug/L		81	70 - 120	5	23
Indeno[1,2,3-cd]pyrene	20.0	15.6		ug/L		78	1 - 151	6	60
Naphthalene	20.0	10.3		ug/L		51	36 - 120	4	39
Phenanthrene	20.0	14.8		ug/L		74	65 - 120	4	24
Pyrene	20.0	17.3		ug/L		86	70 - 120	6	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	81		28 - 127
2-Fluorobiphenyl (Surr)	76		31 - 120
2-Fluorophenol (Surr)	67		17 - 120
Nitrobenzene-d5 (Surr)	60		27 - 120
Phenol-d6 (Surr)	43		10 - 120
p-Terphenyl-d14 (Surr)	88		45 - 120

QC Sample Results

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

Job ID: 380-227687-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: 380-227684-A-1-A MS

Matrix: Water

Analysis Batch: 777955

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 777552

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.19		19.2	10.4		ug/L		54	36 - 120
2-Methylnaphthalene	<0.19		19.2	10.4		ug/L		54	32 - 124
Acenaphthene	<0.19		19.2	13.0		ug/L		68	47 - 145
Acenaphthylene	<0.19		19.2	12.7		ug/L		66	33 - 145
Anthracene	<0.19		19.2	12.4		ug/L		65	27 - 133
Benzo[a]anthracene	<0.19		19.2	14.3		ug/L		74	33 - 143
Benzo[a]pyrene	<0.19		19.2	14.8		ug/L		77	17 - 163
Benzo[b]fluoranthene	<0.19		19.2	14.2		ug/L		74	24 - 159
Benzo[g,h,i]perylene	<0.19		19.2	13.1		ug/L		68	1 - 219
Benzo[k]fluoranthene	<0.19		19.2	13.2		ug/L		69	11 - 162
Chrysene	<0.19		19.2	13.5		ug/L		70	17 - 168
Dibenz(a,h)anthracene	<0.19		19.2	13.1		ug/L		68	1 - 227
Fluoranthene	<0.19		19.2	13.3		ug/L		69	26 - 137
Fluorene	<0.19		19.2	14.2		ug/L		74	59 - 121
Indeno[1,2,3-cd]pyrene	<0.19		19.2	13.0		ug/L		68	1 - 171
Naphthalene	<0.19		19.2	9.41		ug/L		49	21 - 133
Phenanthrene	<0.19		19.2	12.6		ug/L		65	54 - 120
Pyrene	<0.19		19.2	14.1		ug/L		73	52 - 120

Surrogate	MS %Recovery	MS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	71		28 - 127
2-Fluorobiphenyl (Surr)	68		31 - 120
2-Fluorophenol (Surr)	54		17 - 120
Nitrobenzene-d5 (Surr)	54		27 - 120
Phenol-d6 (Surr)	34		10 - 120
p-Terphenyl-d14 (Surr)	75		45 - 120

Lab Sample ID: 380-227684-A-1-B MSD

Matrix: Water

Analysis Batch: 777955

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 777552

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	<0.19		19.1	10.2		ug/L		53	36 - 120	2	30
2-Methylnaphthalene	<0.19		19.1	10.2		ug/L		53	32 - 124	3	30
Acenaphthene	<0.19		19.1	12.4		ug/L		65	47 - 145	5	48
Acenaphthylene	<0.19		19.1	12.3		ug/L		64	33 - 145	3	74
Anthracene	<0.19		19.1	12.0		ug/L		63	27 - 133	4	66
Benzo[a]anthracene	<0.19		19.1	13.8		ug/L		72	33 - 143	4	53
Benzo[a]pyrene	<0.19		19.1	14.1		ug/L		74	17 - 163	5	72
Benzo[b]fluoranthene	<0.19		19.1	13.6		ug/L		71	24 - 159	4	71
Benzo[g,h,i]perylene	<0.19		19.1	12.5		ug/L		66	1 - 219	5	97
Benzo[k]fluoranthene	<0.19		19.1	12.7		ug/L		67	11 - 162	4	63
Chrysene	<0.19		19.1	12.8		ug/L		67	17 - 168	6	87
Dibenz(a,h)anthracene	<0.19		19.1	12.6		ug/L		66	1 - 227	4	126
Fluoranthene	<0.19		19.1	12.9		ug/L		68	26 - 137	3	66
Fluorene	<0.19		19.1	13.3		ug/L		70	59 - 121	6	38
Indeno[1,2,3-cd]pyrene	<0.19		19.1	12.3		ug/L		65	1 - 171	5	99
Naphthalene	<0.19		19.1	9.16		ug/L		48	21 - 133	3	65

Eurofins Pomona

QC Sample Results

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

Job ID: 380-227687-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: 380-227684-A-1-B MSD

Matrix: Water

Analysis Batch: 777955

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 777552

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenanthrene	<0.19		19.1	12.3		ug/L		64	54 - 120	2	39
Pyrene	<0.19		19.1	13.7		ug/L		72	52 - 120	3	49
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
2,4,6-Tribromophenol (Surr)	70		28 - 127								
2-Fluorobiphenyl (Surr)	66		31 - 120								
2-Fluorophenol (Surr)	54		17 - 120								
Nitrobenzene-d5 (Surr)	54		27 - 120								
Phenol-d6 (Surr)	33		10 - 120								
p-Terphenyl-d14 (Surr)	73		45 - 120								

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

Lab Sample ID: MB 570-780257/7

Matrix: Water

Analysis Batch: 780257

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			08/06/26 15:58	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		38 - 134				08/06/26 15:58	1

Lab Sample ID: LCS 570-780257/4

Matrix: Water

Analysis Batch: 780257

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	392		ug/L		98	78 - 120	
Surrogate	LCS %Recovery	LCS Qualifier	Limits					
4-Bromofluorobenzene (Surr)	75		38 - 134					

Lab Sample ID: LCSD 570-780257/5

Matrix: Water

Analysis Batch: 780257

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	384		ug/L		96	78 - 120	2	10
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	107		38 - 134						

QC Sample Results

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

Job ID: 380-227687-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: MRL 570-780257/6

Matrix: Water

Analysis Batch: 780257

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

				Spike	MRL	MRL				
Analyte				Added	Result	Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (C4-C13)				10.0	12.0		ug/L		120	50 - 150
Surrogate		MRL	MRL							
	%Recovery	Qualifier		Limits						
4-Bromofluorobenzene (Surr)	106			38 - 134						

Lab Sample ID: 380-227684-C-1 MS

Matrix: Water

Analysis Batch: 780257

Client Sample ID: Matrix Spike

Prep Type: Total/NA

	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (C4-C13)	<10		400	380		ug/L		95	68 - 122		
Surrogate	MS %Recovery	MS Qualifier	Limits								
4-Bromofluorobenzene (Surr)	93		38 - 134								

Lab Sample ID: 380-227684-C-1 MSD

Matrix: Water

Analysis Batch: 780257

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (C4-C13)	<10		400	403		ug/L		101	68 - 122	6	18
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	107		38 - 134								

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

Lab Sample ID: MB 570-777144/1-A

Matrix: Water

Analysis Batch: 777578

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 777144

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<25		25	ug/L		07/31/26 06:26	08/01/26 00:54	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		07/31/26 06:26	08/01/26 00:54	1
C8-C18	<25		25	ug/L		07/31/26 06:26	08/01/26 00:54	1
	MB	MB						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	105		60 - 130			07/31/26 06:26	08/01/26 00:54	1

Lab Sample ID: LCS 570-777144/2-A

Matrix: Water

Analysis Batch: 777578

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 777144

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
C10-C28	1600	1590		ug/L		99	56 - 127

Eurofins Pomona

QC Sample Results

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

Job ID: 380-227687-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: LCS 570-777144/2-A

Matrix: Water

Analysis Batch: 777578

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 777144

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
n-Octacosane (Surr)	102		60 - 130

Lab Sample ID: LCSD 570-777144/3-A

Matrix: Water

Analysis Batch: 777578

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 777144

	Spike	LCSD	LCSD						%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit			
C10-C28	1600	1400		ug/L		88	56 - 127	12	23			

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
n-Octacosane (Surr)	89		60 - 130

Lab Sample ID: MRL 570-777144/4-A

Matrix: Water

Analysis Batch: 781434

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 777144

	Spike	MRL	MRL						%Rec		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits				
C10-C28	0.0200	0.0251		mg/L		125	50 - 150				

	MRL	MRL	
Surrogate	%Recovery	Qualifier	Limits
n-Octacosane (Surr)	96		60 - 130

Lab Sample ID: 380-227684-B-1-A MS

Matrix: Water

Analysis Batch: 777578

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 777144

	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
C10-C28	<25	^3+	1620	1660		ug/L		102	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
n-Octacosane (Surr)	99		60 - 130

Lab Sample ID: 380-227684-B-1-B MSD

Matrix: Water

Analysis Batch: 777578

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 777144

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
C10-C28	<25	^3+	1620	1790		ug/L		111	70 - 130	8	20	

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
n-Octacosane (Surr)	108		60 - 130

QC Association Summary

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

Job ID: 380-227687-1
SDG: Weekly: Aiea Gulch Wells Pump 1

GC/MS Semi VOA

Prep Batch: 243405

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-227687-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	525.2	
MB 380-243405/21-A	Method Blank	Total/NA	Water	525.2	
LCS 380-243405/23-A	Lab Control Sample	Total/NA	Water	525.2	
LCSD 380-243405/24-A	Lab Control Sample Dup	Total/NA	Water	525.2	
MRL 380-243405/22-A	Lab Control Sample	Total/NA	Water	525.2	
380-227876-B-1-A MS	Matrix Spike	Total/NA	Water	525.2	
380-227876-B-2-A DU	Duplicate	Total/NA	Water	525.2	

Analysis Batch: 243700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-227687-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	525.2	243405
MB 380-243405/21-A	Method Blank	Total/NA	Water	525.2	243405
LCS 380-243405/23-A	Lab Control Sample	Total/NA	Water	525.2	243405
LCSD 380-243405/24-A	Lab Control Sample Dup	Total/NA	Water	525.2	243405
MRL 380-243405/22-A	Lab Control Sample	Total/NA	Water	525.2	243405
380-227876-B-1-A MS	Matrix Spike	Total/NA	Water	525.2	243405
380-227876-B-2-A DU	Duplicate	Total/NA	Water	525.2	243405

Prep Batch: 777552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-227687-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	625.1	
MB 570-777552/1-A	Method Blank	Total/NA	Water	625.1	
LCS 570-777552/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 570-777552/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	
380-227684-A-1-A MS	Matrix Spike	Total/NA	Water	625.1	
380-227684-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	625.1	

Analysis Batch: 777955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-777552/1-A	Method Blank	Total/NA	Water	625.1 SIM	777552
LCS 570-777552/2-A	Lab Control Sample	Total/NA	Water	625.1 SIM	777552
LCSD 570-777552/3-A	Lab Control Sample Dup	Total/NA	Water	625.1 SIM	777552
380-227684-A-1-A MS	Matrix Spike	Total/NA	Water	625.1 SIM	777552
380-227684-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	625.1 SIM	777552

Analysis Batch: 779378

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-777552/1-A	Method Blank	Total/NA	Water	625.1	777552

Analysis Batch: 779707

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-227687-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	625.1	777552

Analysis Batch: 781802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-227687-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	625.1 SIM	777552

QC Association Summary

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

Job ID: 380-227687-1
SDG: Weekly: Aiea Gulch Wells Pump 1

GC VOA

Analysis Batch: 780257

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-227687-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	8015B GRO LL	
380-227687-2	TB: AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Water	8015B GRO LL	
MB 570-780257/7	Method Blank	Total/NA	Water	8015B GRO LL	
LCS 570-780257/4	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-780257/5	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	
MRL 570-780257/6	Lab Control Sample	Total/NA	Water	8015B GRO LL	
380-227684-C-1 MS	Matrix Spike	Total/NA	Water	8015B GRO LL	
380-227684-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8015B GRO LL	

GC Semi VOA

Prep Batch: 777144

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-227687-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	3510C	
MB 570-777144/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-777144/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-777144/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-777144/4-A	Lab Control Sample	Total/NA	Water	3510C	
380-227684-B-1-A MS	Matrix Spike	Total/NA	Water	3510C	
380-227684-B-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

Analysis Batch: 777578

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-777144/1-A	Method Blank	Total/NA	Water	8015B	777144
LCS 570-777144/2-A	Lab Control Sample	Total/NA	Water	8015B	777144
LCSD 570-777144/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	777144
380-227684-B-1-A MS	Matrix Spike	Total/NA	Water	8015B	777144
380-227684-B-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	8015B	777144

Analysis Batch: 781434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-227687-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	8015B	777144
MRL 570-777144/4-A	Lab Control Sample	Total/NA	Water	8015B	777144

Lab Chronicle

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

Job ID: 380-227687-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Lab Sample ID: 380-227687-1

Date Collected: 07/27/26 11:15

Matrix: Drinking Water

Date Received: 07/29/26 10:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			243405	L9UA	EA POM	07/30/26 07:52
Total/NA	Analysis	525.2		1	243700	Q8LA	EA POM	07/31/26 17:04
Total/NA	Prep	625.1			777552	TIZL	EET CAL 4	08/01/26 13:14
Total/NA	Analysis	625.1		1	779707	S4EA	EET CAL 4	08/05/26 20:39
Total/NA	Prep	625.1			777552	TIZL	EET CAL 4	08/01/26 13:14
Total/NA	Analysis	625.1 SIM		1	781802	PQS1	EET CAL 4	08/10/26 10:54
Total/NA	Analysis	8015B GRO LL		1	780257	A9VE	EET CAL 4	08/07/26 00:01
Total/NA	Prep	3510C			777144	EP2G	EET CAL 4	07/31/26 06:26
Total/NA	Analysis	8015B		1	781434	H6FE	EET CAL 4	08/08/26 21:36

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

Lab Sample ID: 380-227687-2

Date Collected: 07/27/26 11:15

Matrix: Water

Date Received: 07/29/26 10:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	780257	A9VE	EET CAL 4	08/06/26 18:04

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: 380-227687-1
SDG: Weekly: Aiea Gulch Wells Pump 1

Laboratory: Eurofins Pomona

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

Authority	Program	Identification Number	Expiration Date
Hawaii	State	CA00006	01-31-26 *
The following analytes are included in this report, but the laboratory is not certified by Hawaii State CA00006. This list may include analytes for which the agency does not offer certification :			
Analysis Method	Prep Method	Matrix	Analyte
525.2	525.2	Drinking Water	1-Methylnaphthalene
525.2	525.2	Drinking Water	2,4'-DDD
525.2	525.2	Drinking Water	2,4'-DDE
525.2	525.2	Drinking Water	2,4'-DDT
525.2	525.2	Drinking Water	2,4-Dinitrotoluene
525.2	525.2	Drinking Water	2,6-Dinitrotoluene
525.2	525.2	Drinking Water	2-Methylnaphthalene
525.2	525.2	Drinking Water	4,4'-DDD
525.2	525.2	Drinking Water	4,4'-DDE
525.2	525.2	Drinking Water	4,4'-DDT
525.2	525.2	Drinking Water	Acetochlor
525.2	525.2	Drinking Water	alpha-BHC
525.2	525.2	Drinking Water	alpha-Chlordane
525.2	525.2	Drinking Water	beta-BHC
525.2	525.2	Drinking Water	Chlorobenzilate
525.2	525.2	Drinking Water	Chloroneb
525.2	525.2	Drinking Water	Chlorothalonil (Draconil, Bravo)
525.2	525.2	Drinking Water	Chlorpyrifos
525.2	525.2	Drinking Water	delta-BHC
525.2	525.2	Drinking Water	Diclorvos (DDVP)
525.2	525.2	Drinking Water	Endosulfan I (Alpha)
525.2	525.2	Drinking Water	Endosulfan II (Beta)
525.2	525.2	Drinking Water	Endosulfan sulfate
525.2	525.2	Drinking Water	Endrin aldehyde
525.2	525.2	Drinking Water	EPTC
525.2	525.2	Drinking Water	gamma-Chlordane
525.2	525.2	Drinking Water	Isophorone
525.2	525.2	Drinking Water	Malathion
525.2	525.2	Drinking Water	Parathion
525.2	525.2	Drinking Water	Pendimethalin (Penoxaline)
525.2	525.2	Drinking Water	Terbacil
525.2	525.2	Drinking Water	Terbutylazine
525.2	525.2	Drinking Water	Total Permethrin (mixed isomers)
525.2	525.2	Drinking Water	trans-Nonachlor

Laboratory: Eurofins Calscience

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

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

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

Eurofins Pomona

Accreditation/Certification Summary

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

Job ID: 380-227687-1
SDG: Weekly: Aiea Gulch Wells Pump 1

Laboratory: Eurofins Calscience (Continued)

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

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

Method Summary

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

Job ID: 380-227687-1
SDG: Weekly: Aiea Gulch Wells Pump 1

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

Protocol References:

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

EPA = US Environmental Protection Agency

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

Laboratory References:

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

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

Sample Summary

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

Job ID: 380-227687-1
SDG: Weekly: Aiea Gulch Wells Pump 1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	PWSID Number
380-227687-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Drinking Water	07/27/26 11:15	07/29/26 10:40	HI0000331
380-227687-2	TB: AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Water	07/27/26 11:15	07/29/26 10:40	

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

[illegible]

8/10/2026

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-227687-1

SDG Number: Weekly: Aiea Gulch Wells Pump 1

Login Number: 227687

List Number: 1

Creator: Segura, Ryan

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).	True	
Samples do not require splitting or compositing.	True	
Container provided by EEA	True	

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-227687-1

SDG Number: Weekly: Aiea Gulch Wells Pump 1

Login Number: 227687

List Source: Eurofins Calscience

List Number: 2

List Creation: 07/30/26 11:42 AM

Creator: Khana, Piyush

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