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ANALYTICAL REPORT

PREPARED FOR

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City & County of Honolulu
630 South Beretania Street
Public Service Bldg. Room 310
Honolulu, Hawaii 96843

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JOB DESCRIPTION

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

JOB NUMBER

380-226442-1

Eurofins Pomona
941 Corporate Center Drive
Pomona CA 91768-2642

See page two for job notes and contact information.

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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Authorized for release by
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Table of Contents

Definitions/Glossary

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

Job ID: 380-226442-1
SDG: Weekly: Aiea Gulch Wells Pump 2

Qualifiers

GC/MS Semi VOA

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

GC/MS Semi VOA TICs

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

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

Job Narrative
380-226442-1

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 7/22/2026 9:50 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 2.3°C and 4.6°C.

GC/MS Semi VOA
Method 625.1: Surrogate recovery for the following sample was outside the lower control limit: AIEA GULCH WELLS PUMP 2 (331-202-TP072) (380-226442-1). The HT expired therefore, no re-extraction. Method 625.1 SIM: Surrogate recovery for the following sample was outside the lower control limit: AIEA GULCH WELLS PUMP 2 (331-202-TP072) (380-226442-1). 625.1 analysis for AIEA GULCH WELLS PUMP 2 (331-202-TP072) (380-226442-1) collected on 07/20/26 are not acceptable for compliance reporting due to QC failures of surrogates recoveries not meeting the method limits. The sample is collected weekly thus follow wp sample was collected on 07/27/26 under job # 380-227689-1. Analysis by 625.1 is currently in progress. (XWB4)

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

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

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

Detection Summary

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

Job ID: 380-226442-1
SDG: Weekly: Aiea Gulch Wells Pump 2

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

Lab Sample ID: 380-226442-1

PWSID Number: HI0000331

No Detections.

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

Lab Sample ID: 380-226442-2

No Detections.

This Detection Summary does not include radiochemical test results.

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

Job ID: 380-226442-1
SDG: Weekly: Aiea Gulch Wells Pump 2

Client Sample ID: AIEA GULCH WELLS PUMP 2 (331-202-TP072)
Date Collected: 07/20/26 10:57
Date Received: 07/22/26 09:50

Lab Sample ID: 380-226442-1
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		07/27/26 11:41	07/28/26 16:25	1
2,4'-DDD	<0.098		0.098		ug/L		07/27/26 11:41	07/28/26 16:25	1
2,4'-DDE	<0.098		0.098		ug/L		07/27/26 11:41	07/28/26 16:25	1
2,4'-DDT	<0.098		0.098		ug/L		07/27/26 11:41	07/28/26 16:25	1
2,4-Dinitrotoluene	<0.098		0.098		ug/L		07/27/26 11:41	07/28/26 16:25	1
2,6-Dinitrotoluene	<0.098		0.098		ug/L		07/27/26 11:41	07/28/26 16:25	1
2-Methylnaphthalene	<0.098		0.098		ug/L		07/27/26 11:41	07/28/26 16:25	1
4,4'-DDD	<0.098		0.098		ug/L		07/27/26 11:41	07/28/26 16:25	1
4,4'-DDE	<0.098		0.098		ug/L		07/27/26 11:41	07/28/26 16:25	1
4,4'-DDT	<0.098		0.098		ug/L		07/27/26 11:41	07/28/26 16:25	1
Acenaphthene	<0.098		0.098		ug/L		07/27/26 11:41	07/28/26 16:25	1
Acenaphthylene	<0.098		0.098		ug/L		07/27/26 11:41	07/28/26 16:25	1
Acetochlor	<0.098		0.098		ug/L		07/27/26 11:41	07/28/26 16:25	1
Alachlor	<0.049		0.049		ug/L		07/27/26 11:41	07/28/26 16:25	1
alpha-BHC	<0.098		0.098		ug/L		07/27/26 11:41	07/28/26 16:25	1
alpha-Chlordane	<0.049		0.049		ug/L		07/27/26 11:41	07/28/26 16:25	1
Anthracene	<0.020		0.020		ug/L		07/27/26 11:41	07/28/26 16:25	1
Atrazine	<0.049		0.049		ug/L		07/27/26 11:41	07/28/26 16:25	1
Benz(a)anthracene	<0.049		0.049		ug/L		07/27/26 11:41	07/28/26 16:25	1
Benzo[a]pyrene	<0.020		0.020		ug/L		07/27/26 11:41	07/28/26 16:25	1
Benzo[b]fluoranthene	<0.020		0.020		ug/L		07/27/26 11:41	07/28/26 16:25	1
Benzo[g,h,i]perylene	<0.049		0.049		ug/L		07/27/26 11:41	07/28/26 16:25	1
Benzo[k]fluoranthene	<0.020		0.020		ug/L		07/27/26 11:41	07/28/26 16:25	1
beta-BHC	<0.098		0.098		ug/L		07/27/26 11:41	07/28/26 16:25	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59		ug/L		07/27/26 11:41	07/28/26 16:25	1
Bromacil	<0.098		0.098		ug/L		07/27/26 11:41	07/28/26 16:25	1
Butachlor	<0.049		0.049		ug/L		07/27/26 11:41	07/28/26 16:25	1
Butylbenzylphthalate	<0.49		0.49		ug/L		07/27/26 11:41	07/28/26 16:25	1
Chlorobenzilate	<0.098		0.098		ug/L		07/27/26 11:41	07/28/26 16:25	1
Chloroneb	<0.098		0.098		ug/L		07/27/26 11:41	07/28/26 16:25	1
Chlorothalonil (Draconil, Bravo)	<0.098		0.098		ug/L		07/27/26 11:41	07/28/26 16:25	1
Chlorpyrifos	<0.049		0.049		ug/L		07/27/26 11:41	07/28/26 16:25	1
Chrysene	<0.020		0.020		ug/L		07/27/26 11:41	07/28/26 16:25	1
delta-BHC	<0.098		0.098		ug/L		07/27/26 11:41	07/28/26 16:25	1
Di(2-ethylhexyl)adipate	<0.59		0.59		ug/L		07/27/26 11:41	07/28/26 16:25	1
Dibenz(a,h)anthracene	<0.049		0.049		ug/L		07/27/26 11:41	07/28/26 16:25	1
Diclorvos (DDVP)	<0.049		0.049		ug/L		07/27/26 11:41	07/28/26 16:25	1
Dieldrin	<0.0098		0.0098		ug/L		07/27/26 11:41	07/28/26 16:25	1
Diethylphthalate	<0.49		0.49		ug/L		07/27/26 11:41	07/28/26 16:25	1
Dimethylphthalate	<0.49		0.49		ug/L		07/27/26 11:41	07/28/26 16:25	1
Di-n-butyl phthalate	<0.98		0.98		ug/L		07/27/26 11:41	07/28/26 16:25	1
Di-n-octyl phthalate	<0.098		0.098		ug/L		07/27/26 11:41	07/28/26 16:25	1
Endosulfan I (Alpha)	<0.098		0.098		ug/L		07/27/26 11:41	07/28/26 16:25	1
Endosulfan II (Beta)	<0.098		0.098		ug/L		07/27/26 11:41	07/28/26 16:25	1
Endosulfan sulfate	<0.098		0.098		ug/L		07/27/26 11:41	07/28/26 16:25	1
Endrin	<0.0098		0.0098		ug/L		07/27/26 11:41	07/28/26 16:25	1
Endrin aldehyde	<0.098		0.098		ug/L		07/27/26 11:41	07/28/26 16:25	1
EPTC	<0.098		0.098		ug/L		07/27/26 11:41	07/28/26 16:25	1

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

Lab Sample ID: 380-226442-1

Date Collected: 07/20/26 10:57
Date Received: 07/22/26 09:50

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
Fluoranthene	<0.098		0.098		ug/L		07/27/26 11:41	07/28/26 16:25	1
Fluorene	<0.049		0.049		ug/L		07/27/26 11:41	07/28/26 16:25	1
gamma-Chlordane	<0.049		0.049		ug/L		07/27/26 11:41	07/28/26 16:25	1
Heptachlor	<0.0098		0.0098		ug/L		07/27/26 11:41	07/28/26 16:25	1
Heptachlor epoxide (isomer B)	<0.0098		0.0098		ug/L		07/27/26 11:41	07/28/26 16:25	1
Hexachlorobenzene	<0.049		0.049		ug/L		07/27/26 11:41	07/28/26 16:25	1
Hexachlorocyclopentadiene	<0.049		0.049		ug/L		07/27/26 11:41	07/28/26 16:25	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049		ug/L		07/27/26 11:41	07/28/26 16:25	1
Isophorone	<0.098		0.098		ug/L		07/27/26 11:41	07/28/26 16:25	1
Lindane	<0.0098		0.0098		ug/L		07/27/26 11:41	07/28/26 16:25	1
Malathion	<0.098		0.098		ug/L		07/27/26 11:41	07/28/26 16:25	1
Methoxychlor	<0.049		0.049		ug/L		07/27/26 11:41	07/28/26 16:25	1
Metolachlor	<0.049		0.049		ug/L		07/27/26 11:41	07/28/26 16:25	1
Molinate	<0.098		0.098		ug/L		07/27/26 11:41	07/28/26 16:25	1
Naphthalene	<0.098		0.098		ug/L		07/27/26 11:41	07/28/26 16:25	1
Parathion	<0.098	*+	0.098		ug/L		07/27/26 11:41	07/28/26 16:25	1
Pendimethalin (Penoxaline)	<0.098		0.098		ug/L		07/27/26 11:41	07/28/26 16:25	1
Phenanthrene	<0.039		0.039		ug/L		07/27/26 11:41	07/28/26 16:25	1
Propachlor	<0.049		0.049		ug/L		07/27/26 11:41	07/28/26 16:25	1
Pyrene	<0.049		0.049		ug/L		07/27/26 11:41	07/28/26 16:25	1
Simazine	<0.049		0.049		ug/L		07/27/26 11:41	07/28/26 16:25	1
Terbacil	<0.098		0.098		ug/L		07/27/26 11:41	07/28/26 16:25	1
Terbuthylazine	<0.098		0.098		ug/L		07/27/26 11:41	07/28/26 16:25	1
Thiobencarb	<0.098		0.098		ug/L		07/27/26 11:41	07/28/26 16:25	1
Total Permethrin (mixed isomers)	<0.20		0.20		ug/L		07/27/26 11:41	07/28/26 16:25	1
trans-Nonachlor	<0.049		0.049		ug/L		07/27/26 11:41	07/28/26 16:25	1
Trifluralin	<0.098		0.098		ug/L		07/27/26 11:41	07/28/26 16:25	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*	*07/27/26 11:41*	*07/28/26 16:25*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Nitro-m-xylene	*101*		*70 - 130*	*07/27/26 11:41*	*07/28/26 16:25*	*1*
Perylene-d12	*93*		*70 - 130*	*07/27/26 11:41*	*07/28/26 16:25*	*1*
Triphenylphosphate	*106*		*70 - 130*	*07/27/26 11:41*	*07/28/26 16:25*	*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			07/27/26 15:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*38 - 134*		*07/27/26 15:13*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<26		26		ug/L		07/23/26 15:29	08/05/26 16:56	1
Motor Oil Range Organics [C24-C36]	<26		26		ug/L		07/23/26 15:29	08/05/26 16:56	1
C8-C18	<26		26		ug/L		07/23/26 15:29	08/05/26 16:56	1

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

Job ID: 380-226442-1
SDG: Weekly: Aiea Gulch Wells Pump 2

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

Lab Sample ID: 380-226442-1

Date Collected: 07/20/26 10:57
Date Received: 07/22/26 09:50

Matrix: Drinking Water
PWSID Number: HI0000331

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*105*		*60 - 130*	*07/23/26 15:29*	*08/05/26 16:56*	*1*

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

Lab Sample ID: 380-226442-2

Date Collected: 07/20/26 10:57
Date Received: 07/22/26 09:50

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			07/27/26 11:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*38 - 134*		*07/27/26 11:09*	*1*

Action Limit Summary

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

Job ID: 380-226442-1
SDG: Weekly: Aiea Gulch Wells Pump 2

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

Lab Sample ID: 380-226442-1

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 Limit	RL	Method	Prep Type
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

Surrogate Summary

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

Job ID: 380-226442-1
SDG: Weekly: Aiea Gulch Wells Pump 2

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

Matrix: Drinking Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		2NMX	PRY	TPP
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)
380-226442-1	AIEA GULCH WELLS PUMP 2 (	101	93	106

Surrogate Legend

2NMX = 2-Nitro-m-xylene
PRY = Perylene-d12
TPP = Triphenylphosphate

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

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		2NMX	PRY	TPP
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)
380-226421-R-1-A MS	Matrix Spike	101	97	111
380-226421-S-1-A MSD	Matrix Spike Duplicate	102	98	112
LCS 380-242654/23-A	Lab Control Sample	100	95	112
MB 380-242654/21-A	Method Blank	100	91	112
MRL 380-242654/22-A	Lab Control Sample	102	92	112

Surrogate Legend

2NMX = 2-Nitro-m-xylene
PRY = Perylene-d12
TPP = Triphenylphosphate

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

Matrix: Drinking Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		BFB1
Lab Sample ID	Client Sample ID	(38-134)
380-226442-1	AIEA GULCH WELLS PUMP 2 (	102

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

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

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		BFB1
Lab Sample ID	Client Sample ID	(38-134)
380-226428-C-1 MS	Matrix Spike	104
380-226428-D-1 MSD	Matrix Spike Duplicate	106
380-226442-2	TB: AIEA GULCH WELLS PUMF 2 (331-202-TP072)	103
LCS 570-774669/3	Lab Control Sample	69
LCSD 570-774669/4	Lab Control Sample Dup	94
MB 570-774669/6	Method Blank	99
MRL 570-774669/5	Lab Control Sample	103

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

Surrogate Summary

Client: City & County of Honolulu
Job ID: 380-226442-1
Project/Site: RED-HILL
SDG: Weekly: Aiea Gulch Wells Pump 2

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

Matrix: Drinking Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits) OTCSN1 (60-130)
380-226442-1 - RA	AIEA GULCH WELLS PUMP 2 (	105

Surrogate Legend

OTCSN = n-Octacosane (Surr)

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits) OTCSN1 (60-130)
380-226428-B-1-A MS	Matrix Spike	119
380-226428-B-1-B MSD	Matrix Spike Duplicate	120
LCS 570-773351/2-A	Lab Control Sample	103
LCSD 570-773351/3-A	Lab Control Sample Dup	110
MB 570-773351/1-A	Method Blank	91
MRL 570-773351/4-A	Lab Control Sample	95

Surrogate Legend

OTCSN = n-Octacosane (Surr)

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

Job ID: 380-226442-1
SDG: Weekly: Aiea Gulch Wells Pump 2

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

Lab Sample ID: MB 380-242654/21-A
Matrix: Water
Analysis Batch: 242880

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 242654

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.099		0.099		ug/L		07/27/26 11:41	07/28/26 11:16	1
2,4'-DDD	<0.099		0.099		ug/L		07/27/26 11:41	07/28/26 11:16	1
2,4'-DDE	<0.099		0.099		ug/L		07/27/26 11:41	07/28/26 11:16	1
2,4'-DDT	<0.099		0.099		ug/L		07/27/26 11:41	07/28/26 11:16	1
2,4-Dinitrotoluene	<0.099		0.099		ug/L		07/27/26 11:41	07/28/26 11:16	1
2,6-Dinitrotoluene	<0.099		0.099		ug/L		07/27/26 11:41	07/28/26 11:16	1
2-Methylnaphthalene	<0.099		0.099		ug/L		07/27/26 11:41	07/28/26 11:16	1
4,4'-DDD	<0.099		0.099		ug/L		07/27/26 11:41	07/28/26 11:16	1
4,4'-DDE	<0.099		0.099		ug/L		07/27/26 11:41	07/28/26 11:16	1
4,4'-DDT	<0.099		0.099		ug/L		07/27/26 11:41	07/28/26 11:16	1
Acenaphthene	<0.099		0.099		ug/L		07/27/26 11:41	07/28/26 11:16	1
Acenaphthylene	<0.099		0.099		ug/L		07/27/26 11:41	07/28/26 11:16	1
Acetochlor	<0.099		0.099		ug/L		07/27/26 11:41	07/28/26 11:16	1
Alachlor	<0.050		0.050		ug/L		07/27/26 11:41	07/28/26 11:16	1
alpha-BHC	<0.099		0.099		ug/L		07/27/26 11:41	07/28/26 11:16	1
alpha-Chlordane	<0.050		0.050		ug/L		07/27/26 11:41	07/28/26 11:16	1
Anthracene	<0.020		0.020		ug/L		07/27/26 11:41	07/28/26 11:16	1
Atrazine	<0.050		0.050		ug/L		07/27/26 11:41	07/28/26 11:16	1
Benz(a)anthracene	<0.050		0.050		ug/L		07/27/26 11:41	07/28/26 11:16	1
Benzo[a]pyrene	<0.020		0.020		ug/L		07/27/26 11:41	07/28/26 11:16	1
Benzo[b]fluoranthene	<0.020		0.020		ug/L		07/27/26 11:41	07/28/26 11:16	1
Benzo[g,h,i]perylene	<0.050		0.050		ug/L		07/27/26 11:41	07/28/26 11:16	1
Benzo[k]fluoranthene	<0.020		0.020		ug/L		07/27/26 11:41	07/28/26 11:16	1
beta-BHC	<0.099		0.099		ug/L		07/27/26 11:41	07/28/26 11:16	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59		ug/L		07/27/26 11:41	07/28/26 11:16	1
Bromacil	<0.099		0.099		ug/L		07/27/26 11:41	07/28/26 11:16	1
Butachlor	<0.050		0.050		ug/L		07/27/26 11:41	07/28/26 11:16	1
Butylbenzylphthalate	<0.50		0.50		ug/L		07/27/26 11:41	07/28/26 11:16	1
Chlorobenzilate	<0.099		0.099		ug/L		07/27/26 11:41	07/28/26 11:16	1
Chloroneb	<0.099		0.099		ug/L		07/27/26 11:41	07/28/26 11:16	1
Chlorothalonil (Draconil, Bravo)	<0.099		0.099		ug/L		07/27/26 11:41	07/28/26 11:16	1
Chlorpyrifos	<0.050		0.050		ug/L		07/27/26 11:41	07/28/26 11:16	1
Chrysene	<0.020		0.020		ug/L		07/27/26 11:41	07/28/26 11:16	1
delta-BHC	<0.099		0.099		ug/L		07/27/26 11:41	07/28/26 11:16	1
Di(2-ethylhexyl)adipate	<0.59		0.59		ug/L		07/27/26 11:41	07/28/26 11:16	1
Dibenz(a,h)anthracene	<0.050		0.050		ug/L		07/27/26 11:41	07/28/26 11:16	1
Diclorvos (DDVP)	<0.050		0.050		ug/L		07/27/26 11:41	07/28/26 11:16	1
Dieldrin	<0.0099		0.0099		ug/L		07/27/26 11:41	07/28/26 11:16	1
Diethylphthalate	<0.50		0.50		ug/L		07/27/26 11:41	07/28/26 11:16	1
Dimethylphthalate	<0.50		0.50		ug/L		07/27/26 11:41	07/28/26 11:16	1
Di-n-butyl phthalate	<0.99		0.99		ug/L		07/27/26 11:41	07/28/26 11:16	1
Di-n-octyl phthalate	<0.099		0.099		ug/L		07/27/26 11:41	07/28/26 11:16	1
Endosulfan I (Alpha)	<0.099		0.099		ug/L		07/27/26 11:41	07/28/26 11:16	1
Endosulfan II (Beta)	<0.099		0.099		ug/L		07/27/26 11:41	07/28/26 11:16	1
Endosulfan sulfate	<0.099		0.099		ug/L		07/27/26 11:41	07/28/26 11:16	1
Endrin	<0.0099		0.0099		ug/L		07/27/26 11:41	07/28/26 11:16	1
Endrin aldehyde	<0.099		0.099		ug/L		07/27/26 11:41	07/28/26 11:16	1
EPTC	<0.099		0.099		ug/L		07/27/26 11:41	07/28/26 11:16	1

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

Lab Sample ID: MB 380-242654/21-A
Matrix: Water
Analysis Batch: 242880

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 242654

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.099		0.099		ug/L		07/27/26 11:41	07/28/26 11:16	1
Fluorene	<0.050		0.050		ug/L		07/27/26 11:41	07/28/26 11:16	1
gamma-Chlordane	<0.050		0.050		ug/L		07/27/26 11:41	07/28/26 11:16	1
Heptachlor	<0.0099		0.0099		ug/L		07/27/26 11:41	07/28/26 11:16	1
Heptachlor epoxide (isomer B)	<0.0099		0.0099		ug/L		07/27/26 11:41	07/28/26 11:16	1
Hexachlorobenzene	<0.050		0.050		ug/L		07/27/26 11:41	07/28/26 11:16	1
Hexachlorocyclopentadiene	<0.050		0.050		ug/L		07/27/26 11:41	07/28/26 11:16	1
Indeno[1,2,3-cd]pyrene	<0.050		0.050		ug/L		07/27/26 11:41	07/28/26 11:16	1
Isophorone	<0.099		0.099		ug/L		07/27/26 11:41	07/28/26 11:16	1
Lindane	<0.0099		0.0099		ug/L		07/27/26 11:41	07/28/26 11:16	1
Malathion	<0.099		0.099		ug/L		07/27/26 11:41	07/28/26 11:16	1
Methoxychlor	<0.050		0.050		ug/L		07/27/26 11:41	07/28/26 11:16	1
Metolachlor	<0.050		0.050		ug/L		07/27/26 11:41	07/28/26 11:16	1
Molinate	<0.099		0.099		ug/L		07/27/26 11:41	07/28/26 11:16	1
Naphthalene	<0.099		0.099		ug/L		07/27/26 11:41	07/28/26 11:16	1
Parathion	<0.099		0.099		ug/L		07/27/26 11:41	07/28/26 11:16	1
Pendimethalin (Penoxaline)	<0.099		0.099		ug/L		07/27/26 11:41	07/28/26 11:16	1
Phenanthrene	<0.040		0.040		ug/L		07/27/26 11:41	07/28/26 11:16	1
Propachlor	<0.050		0.050		ug/L		07/27/26 11:41	07/28/26 11:16	1
Pyrene	<0.050		0.050		ug/L		07/27/26 11:41	07/28/26 11:16	1
Simazine	<0.050		0.050		ug/L		07/27/26 11:41	07/28/26 11:16	1
Terbacil	<0.099		0.099		ug/L		07/27/26 11:41	07/28/26 11:16	1
Terbuthylazine	<0.099		0.099		ug/L		07/27/26 11:41	07/28/26 11:16	1
Thiobencarb	<0.099		0.099		ug/L		07/27/26 11:41	07/28/26 11:16	1
Total Permethrin (mixed isomers)	<0.20		0.20		ug/L		07/27/26 11:41	07/28/26 11:16	1
trans-Nonachlor	<0.050		0.050		ug/L		07/27/26 11:41	07/28/26 11:16	1
Trifluralin	<0.099		0.099		ug/L		07/27/26 11:41	07/28/26 11:16	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Undecane	*6.27*	*T J N*	*ug/L*		*3.22*	*1120-21-4*	*07/27/26 11:41*	*07/28/26 11:16*	*1*
Phthalic acid, isobutyl 2-methylpent-3-yl ester	*0.662*	*T J N*	*ug/L*		*6.05*	*1000356-90-7*	*07/27/26 11:41*	*07/28/26 11:16*	*1*
9-Octadecenamide, (Z)-	*1.53*	*T J N*	*ug/L*		*8.03*	*301-02-0*	*07/27/26 11:41*	*07/28/26 11:16*	*1*
13-Docosenamide, (Z)-	*1.53*	*T J N*	*ug/L*		*10.60*	*112-84-5*	*07/27/26 11:41*	*07/28/26 11:16*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Nitro-m-xylene	*100*		*70 - 130*	*07/27/26 11:41*	*07/28/26 11:16*	*1*
Perylene-d12	*91*		*70 - 130*	*07/27/26 11:41*	*07/28/26 11:16*	*1*
Triphenylphosphate	*112*		*70 - 130*	*07/27/26 11:41*	*07/28/26 11:16*	*1*

Lab Sample ID: LCS 380-242654/23-A
Matrix: Water
Analysis Batch: 242880

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 242654

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	1.98	2.05		ug/L		104	70 - 130
2,4'-DDD	1.98	2.15		ug/L		109	70 - 130
2,4'-DDE	1.98	2.23		ug/L		113	70 - 130

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

Lab Sample ID: LCS 380-242654/23-A
Matrix: Water
Analysis Batch: 242880

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 242654

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4'-DDT	1.98	2.24		ug/L		113	70 - 130
2,4-Dinitrotoluene	1.98	2.36		ug/L		119	70 - 130
2,6-Dinitrotoluene	1.98	2.29		ug/L		116	70 - 130
2-Methylnaphthalene	1.98	2.01		ug/L		102	70 - 130
4,4'-DDD	1.98	2.15		ug/L		108	70 - 130
4,4'-DDE	1.98	2.11		ug/L		107	70 - 130
4,4'-DDT	1.98	2.31		ug/L		117	70 - 130
Acenaphthene	1.98	1.97		ug/L		99	70 - 130
Acenaphthylene	1.98	1.61		ug/L		81	70 - 130
Acetochlor	1.98	2.21		ug/L		112	70 - 130
Alachlor	1.98	2.22		ug/L		112	70 - 130
alpha-BHC	1.98	2.12		ug/L		107	70 - 130
alpha-Chlordane	1.98	2.17		ug/L		110	70 - 130
Anthracene	1.98	1.81		ug/L		91	70 - 130
Atrazine	1.98	2.18		ug/L		110	70 - 130
Benz(a)anthracene	1.98	2.05		ug/L		104	70 - 130
Benzo[a]pyrene	1.98	1.89		ug/L		96	70 - 130
Benzo[b]fluoranthene	1.98	1.99		ug/L		101	70 - 130
Benzo[g,h,i]perylene	1.98	1.96		ug/L		99	70 - 130
Benzo[k]fluoranthene	1.98	2.06		ug/L		104	70 - 130
beta-BHC	1.98	2.24		ug/L		113	70 - 130
Bis(2-ethylhexyl) phthalate	1.98	1.93		ug/L		98	70 - 130
Bromacil	1.98	2.16		ug/L		109	70 - 130
Butachlor	1.98	2.32		ug/L		117	70 - 130
Butylbenzylphthalate	1.98	2.31		ug/L		117	70 - 130
Chlorobenzilate	1.98	2.30		ug/L		117	70 - 130
Chloroneb	1.98	2.05		ug/L		104	70 - 130
Chlorothalonil (Draconil, Bravo)	1.98	2.21		ug/L		111	70 - 130
Chlorpyrifos	1.98	2.20		ug/L		111	70 - 130
Chrysene	1.98	2.08		ug/L		105	70 - 130
delta-BHC	1.98	2.17		ug/L		110	70 - 130
Di(2-ethylhexyl)adipate	1.98	2.20		ug/L		111	70 - 130
Dibenz(a,h)anthracene	1.98	1.95		ug/L		98	70 - 130
Diclorvos (DDVP)	1.98	1.96		ug/L		99	70 - 130
Dieldrin	1.98	2.13		ug/L		108	70 - 130
Diethylphthalate	1.98	2.17		ug/L		110	70 - 130
Dimethylphthalate	1.98	2.08		ug/L		105	70 - 130
Di-n-butyl phthalate	3.96	4.78		ug/L		121	70 - 130
Di-n-octyl phthalate	1.98	1.88		ug/L		95	70 - 130
Endosulfan I (Alpha)	1.98	2.12		ug/L		107	70 - 130
Endosulfan II (Beta)	1.98	2.15		ug/L		109	70 - 130
Endosulfan sulfate	1.98	2.17		ug/L		110	70 - 130
Endrin	1.98	2.37		ug/L		120	70 - 130
Endrin aldehyde	1.98	2.31		ug/L		117	60 - 130
EPTC	1.98	2.09		ug/L		106	70 - 130
Fluoranthene	1.98	2.12		ug/L		107	70 - 130
Fluorene	1.98	2.07		ug/L		105	70 - 130
gamma-Chlordane	1.98	2.16		ug/L		109	70 - 130
Heptachlor	1.98	2.23		ug/L		113	70 - 130

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

Lab Sample ID: LCS 380-242654/23-A
Matrix: Water
Analysis Batch: 242880

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 242654

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Heptachlor epoxide (isomer B)	1.98	2.15		ug/L		108	70 - 130
Hexachlorobenzene	1.98	2.07		ug/L		105	70 - 130
Hexachlorocyclopentadiene	1.98	2.04		ug/L		103	70 - 130
Indeno[1,2,3-cd]pyrene	1.98	1.95		ug/L		98	70 - 130
Isophorone	1.98	2.01		ug/L		102	70 - 130
Lindane	1.98	2.19		ug/L		111	70 - 130
Malathion	1.98	2.24		ug/L		113	70 - 130
Methoxychlor	1.98	2.33		ug/L		118	70 - 130
Metolachlor	1.98	2.20		ug/L		111	70 - 130
Molinate	1.98	2.10		ug/L		106	70 - 130
Naphthalene	1.98	1.98		ug/L		100	70 - 130
Parathion	1.98	2.68	*+	ug/L		135	70 - 130
Pendimethalin (Penoxaline)	1.98	2.42		ug/L		122	70 - 130
Phenanthrene	1.98	1.99		ug/L		101	70 - 130
Propachlor	1.98	2.20		ug/L		111	70 - 130
Pyrene	1.98	2.18		ug/L		110	70 - 130
Simazine	1.98	2.14		ug/L		108	70 - 130
Terbacil	1.98	2.40		ug/L		122	70 - 130
Terbuthylazine	1.98	2.22		ug/L		112	70 - 130
Thiobencarb	1.98	2.21		ug/L		112	70 - 130
trans-Nonachlor	1.98	2.12		ug/L		107	70 - 130
Trifluralin	1.98	2.21		ug/L		112	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Nitro-m-xylene	*100*		*70 - 130*
Perylene-d12	*95*		*70 - 130*
Triphenylphosphate	*112*		*70 - 130*

Lab Sample ID: MRL 380-242654/22-A
Matrix: Water
Analysis Batch: 242880

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 242654

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	0.0994	0.103		ug/L		104	50 - 150
2,4'-DDD	0.0994	0.105		ug/L		105	50 - 150
2,4'-DDE	0.0994	0.121		ug/L		122	50 - 150
2,4'-DDT	0.0994	0.129		ug/L		130	50 - 150
2,4-Dinitrotoluene	0.0994	0.126		ug/L		127	50 - 150
2,6-Dinitrotoluene	0.0994	0.125		ug/L		126	50 - 150
2-Methylnaphthalene	0.0994	0.103		ug/L		104	50 - 150
4,4'-DDD	0.0994	0.116		ug/L		117	50 - 150
4,4'-DDE	0.0994	0.113		ug/L		113	50 - 150
4,4'-DDT	0.0994	0.122		ug/L		123	50 - 150
Acenaphthene	0.0994	0.102		ug/L		103	50 - 150
Acenaphthylene	0.0994	0.0804	J	ug/L		81	50 - 150
Acetochlor	0.0994	0.125		ug/L		125	50 - 150
Alachlor	0.0497	0.0646		ug/L		130	50 - 150
alpha-BHC	0.0994	0.117		ug/L		117	50 - 150

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

Lab Sample ID: MRL 380-242654/22-A
Matrix: Water
Analysis Batch: 242880

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 242654

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
alpha-Chlordane	0.0249	0.0298	J	ug/L		120	50 - 150
Anthracene	0.0199	0.0237		ug/L		119	50 - 150
Atrazine	0.0497	0.0652		ug/L		131	50 - 150
Benz(a)anthracene	0.0497	0.0549		ug/L		111	50 - 150
Benzo[a]pyrene	0.0199	0.0221		ug/L		111	50 - 150
Benzo[b]fluoranthene	0.0199	0.0230		ug/L		116	50 - 150
Benzo[g,h,i]perylene	0.0497	0.0485	J	ug/L		98	50 - 150
Benzo[k]fluoranthene	0.0199	0.0255		ug/L		129	50 - 150
beta-BHC	0.0994	0.126		ug/L		127	50 - 150
Bis(2-ethylhexyl) phthalate	0.596	0.689		ug/L		116	50 - 150
Bromacil	0.0994	0.133		ug/L		134	50 - 150
Butachlor	0.0497	0.0737		ug/L		148	50 - 150
Butylbenzylphthalate	0.497	0.641		ug/L		129	50 - 150
Chlorobenzilate	0.0994	0.139		ug/L		140	50 - 150
Chloroneb	0.0994	0.106		ug/L		107	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0994	0.114		ug/L		114	50 - 150
Chlorpyrifos	0.0497	0.0583		ug/L		117	50 - 150
Chrysene	0.0199	0.0239		ug/L		120	50 - 150
delta-BHC	0.0994	0.123		ug/L		123	50 - 150
Di(2-ethylhexyl)adipate	0.596	0.760		ug/L		127	50 - 150
Dibenz(a,h)anthracene	0.0497	0.0472	J	ug/L		95	50 - 150
Diclorvos (DDVP)	0.0497	0.0554		ug/L		112	50 - 150
Dieldrin	0.00994	0.0115		ug/L		115	50 - 150
Diethylphthalate	0.497	0.623		ug/L		125	50 - 150
Dimethylphthalate	0.497	0.575		ug/L		116	50 - 150
Di-n-butyl phthalate	0.497	0.811	J	ug/L		163	49 - 243
Di-n-octyl phthalate	0.0994	0.115		ug/L		116	50 - 150
Endosulfan I (Alpha)	0.0994	0.115		ug/L		115	50 - 150
Endosulfan II (Beta)	0.0994	0.141		ug/L		142	50 - 150
Endosulfan sulfate	0.0994	0.127		ug/L		128	50 - 150
Endrin	0.00994	0.0144		ug/L		145	50 - 150
Endrin aldehyde	0.0994	0.135		ug/L		136	50 - 150
EPTC	0.0994	0.108		ug/L		109	50 - 150
Fluoranthene	0.0994	0.115		ug/L		116	50 - 150
Fluorene	0.0497	0.0560		ug/L		113	50 - 150
gamma-Chlordane	0.0249	0.0305	J	ug/L		123	50 - 150
Heptachlor	0.00994	0.0141		ug/L		142	50 - 150
Heptachlor epoxide (isomer B)	0.00994	0.0133		ug/L		134	50 - 150
Hexachlorobenzene	0.0497	0.0556		ug/L		112	50 - 150
Hexachlorocyclopentadiene	0.0497	0.0502		ug/L		101	50 - 150
Indeno[1,2,3-cd]pyrene	0.0497	0.0467	J	ug/L		94	50 - 150
Isophorone	0.0994	0.106		ug/L		107	50 - 150
Lindane	0.00994	0.0106		ug/L		106	50 - 150
Malathion	0.0994	0.116		ug/L		116	50 - 150
Methoxychlor	0.0497	0.0692		ug/L		139	50 - 150
Metolachlor	0.0497	0.0652		ug/L		131	50 - 150
Molinate	0.0994	0.121		ug/L		122	50 - 150
Naphthalene	0.0994	0.130		ug/L		130	50 - 150
Parathion	0.0994	0.131		ug/L		131	50 - 150

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

Lab Sample ID: MRL 380-242654/22-A
Matrix: Water
Analysis Batch: 242880

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 242654

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Pendimethalin (Penoxaline)			0.0994	0.130		ug/L		131	50 - 150		
Phenanthrene			0.0398	0.0453		ug/L		114	50 - 150		
Propachlor			0.0497	0.0600		ug/L		121	50 - 150		
Pyrene			0.0497	0.0584		ug/L		117	50 - 150		
Simazine			0.0497	0.0616		ug/L		124	50 - 150		
Terbacil			0.0994	0.135		ug/L		136	50 - 150		
Terbuthylazine			0.0994	0.122		ug/L		123	50 - 150		
Thiobencarb			0.0994	0.127		ug/L		128	50 - 150		
trans-Nonachlor			0.0249	0.0319	J	ug/L		128	50 - 150		
Trifluralin			0.0994	0.116		ug/L		116	50 - 150		

Surrogate	*MRL %Recovery*	*MRL Qualifier*	*Limits*
2-Nitro-m-xylene	*102*		*70 - 130*
Perylene-d12	*92*		*70 - 130*
Triphenylphosphate	*112*		*70 - 130*

Lab Sample ID: 380-226421-R-1-A MS
Matrix: Water
Analysis Batch: 242880

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 242654

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
1-Methylnaphthalene	<0.097		1.94	2.02		ug/L		104	70 - 130		
2,4'-DDD	<0.097		1.94	2.10		ug/L		108	70 - 130		
2,4'-DDE	<0.097		1.94	2.10		ug/L		108	70 - 130		
2,4'-DDT	<0.097		1.94	2.11		ug/L		109	70 - 130		
2,4-Dinitrotoluene	<0.097		1.94	2.29		ug/L		118	70 - 130		
2,6-Dinitrotoluene	<0.097		1.94	2.16		ug/L		112	70 - 130		
2-Methylnaphthalene	<0.097		1.94	2.00		ug/L		103	70 - 130		
4,4'-DDD	<0.097		1.94	2.10		ug/L		108	70 - 130		
4,4'-DDE	<0.097		1.94	1.98		ug/L		102	70 - 130		
4,4'-DDT	<0.097		1.94	2.17		ug/L		112	70 - 130		
Acenaphthene	<0.097		1.94	1.95		ug/L		100	70 - 130		
Acenaphthylene	<0.097		1.94	1.67		ug/L		86	70 - 130		
Acetochlor	<0.097		1.94	2.20		ug/L		113	70 - 130		
Alachlor	<0.048		1.94	2.16		ug/L		111	70 - 130		
alpha-BHC	<0.097		1.94	2.09		ug/L		108	70 - 130		
alpha-Chlordane	<0.048		1.94	2.12		ug/L		108	70 - 130		
Anthracene	<0.019	F1	1.94	1.35		ug/L		70	70 - 130		
Atrazine	<0.048		1.94	2.15		ug/L		111	70 - 130		
Benz(a)anthracene	<0.048		1.94	1.91		ug/L		98	70 - 130		
Benzo[a]pyrene	<0.019		1.94	1.68		ug/L		87	70 - 130		
Benzo[b]fluoranthene	<0.019		1.94	2.01		ug/L		103	70 - 130		
Benzo[g,h,i]perylene	<0.048		1.94	1.90		ug/L		98	70 - 130		
Benzo[k]fluoranthene	<0.019		1.94	1.99		ug/L		103	70 - 130		
beta-BHC	<0.097		1.94	2.21		ug/L		114	70 - 130		
Bis(2-ethylhexyl) phthalate	<0.58		1.94	1.74		ug/L		90	70 - 130		
Bromacil	<0.097		1.94	1.99		ug/L		103	70 - 130		
Butachlor	<0.048		1.94	2.32		ug/L		119	70 - 130		

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

Lab Sample ID: 380-226421-R-1-A MS
Matrix: Water
Analysis Batch: 242880

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 242654

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Butylbenzylphthalate	<0.48		1.94	2.25		ug/L		116	70 - 130
Chlorobenzilate	<0.097		1.94	2.28		ug/L		118	70 - 130
Chloroneb	<0.097		1.94	2.01		ug/L		104	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.097		1.94	2.19		ug/L		113	70 - 130
Chlorpyrifos	<0.048		1.94	2.17		ug/L		112	70 - 130
Chrysene	<0.019		1.94	2.08		ug/L		107	70 - 130
delta-BHC	<0.097		1.94	2.13		ug/L		110	70 - 130
Di(2-ethylhexyl)adipate	<0.58		1.94	1.95		ug/L		101	70 - 130
Dibenz(a,h)anthracene	<0.048		1.94	1.84		ug/L		95	70 - 130
Diclorvos (DDVP)	<0.048		1.94	1.91		ug/L		98	70 - 130
Dieldrin	0.023		1.94	2.12		ug/L		108	70 - 130
Diethylphthalate	<0.48		1.94	2.15		ug/L		111	70 - 130
Dimethylphthalate	<0.48		1.94	2.05		ug/L		106	70 - 130
Di-n-butyl phthalate	<0.97		3.88	4.65		ug/L		114	70 - 130
Di-n-octyl phthalate	<0.097		1.94	1.65		ug/L		85	70 - 130
Endosulfan I (Alpha)	<0.097		1.94	2.05		ug/L		106	70 - 130
Endosulfan II (Beta)	<0.097		1.94	2.18		ug/L		112	70 - 130
Endosulfan sulfate	<0.097		1.94	2.15		ug/L		111	70 - 130
Endrin	<0.0097		1.94	2.30		ug/L		118	70 - 130
Endrin aldehyde	<0.097		1.94	2.07		ug/L		107	60 - 130
EPTC	<0.097		1.94	2.08		ug/L		107	70 - 130
Fluoranthene	<0.097		1.94	2.10		ug/L		108	70 - 130
Fluorene	<0.048		1.94	2.06		ug/L		106	70 - 130
gamma-Chlordane	<0.048		1.94	2.10		ug/L		108	70 - 130
Heptachlor	<0.0097		1.94	2.21		ug/L		114	70 - 130
Heptachlor epoxide (isomer B)	<0.0097		1.94	2.14		ug/L		110	70 - 130
Hexachlorobenzene	<0.048		1.94	2.07		ug/L		107	70 - 130
Hexachlorocyclopentadiene	<0.048		1.94	2.05		ug/L		106	70 - 130
Indeno[1,2,3-cd]pyrene	<0.048		1.94	1.93		ug/L		100	70 - 130
Isophorone	<0.097		1.94	1.98		ug/L		102	70 - 130
Lindane	<0.0097		1.94	2.12		ug/L		109	70 - 130
Malathion	<0.097		1.94	2.22		ug/L		114	70 - 130
Methoxychlor	<0.048		1.94	2.36		ug/L		122	70 - 130
Metolachlor	<0.048		1.94	2.18		ug/L		112	70 - 130
Molinate	<0.097		1.94	2.06		ug/L		106	70 - 130
Naphthalene	<0.097		1.94	1.96		ug/L		101	70 - 130
Parathion	<0.097	F1 *+	1.94	2.67	F1	ug/L		137	70 - 130
Pendimethalin (Penoxaline)	<0.097		1.94	2.42		ug/L		125	70 - 130
Phenanthrene	<0.039		1.94	1.97		ug/L		102	70 - 130
Propachlor	<0.048		1.94	2.18		ug/L		112	70 - 130
Pyrene	<0.048		1.94	2.13		ug/L		110	70 - 130
Simazine	<0.048		1.94	2.02		ug/L		104	70 - 130
Terbacil	<0.097		1.94	2.23		ug/L		115	70 - 130
Terbuthylazine	<0.097		1.94	2.18		ug/L		112	70 - 130
Thiobencarb	<0.097		1.94	2.17		ug/L		112	70 - 130
trans-Nonachlor	<0.048		1.94	2.04		ug/L		105	70 - 130
Trifluralin	<0.097		1.94	2.18		ug/L		113	70 - 130

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

Lab Sample ID: 380-226421-R-1-A MS
Matrix: Water
Analysis Batch: 242880

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 242654

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Nitro-m-xylene	*101*		*70 - 130*
Perylene-d12	*97*		*70 - 130*
Triphenylphosphate	*111*		*70 - 130*

Lab Sample ID: 380-226421-S-1-A MSD
Matrix: Water
Analysis Batch: 242880

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 242654

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	<0.097		1.95	2.06		ug/L		106	70 - 130	2	20
2,4'-DDD	<0.097		1.95	2.09		ug/L		108	70 - 130	0	20
2,4'-DDE	<0.097		1.95	2.11		ug/L		108	70 - 130	0	20
2,4'-DDT	<0.097		1.95	2.14		ug/L		110	70 - 130	1	20
2,4-Dinitrotoluene	<0.097		1.95	2.48		ug/L		128	70 - 130	8	20
2,6-Dinitrotoluene	<0.097		1.95	2.36		ug/L		121	70 - 130	9	20
2-Methylnaphthalene	<0.097		1.95	2.03		ug/L		104	70 - 130	1	20
4,4'-DDD	<0.097		1.95	2.11		ug/L		108	70 - 130	1	20
4,4'-DDE	<0.097		1.95	1.98		ug/L		102	70 - 130	0	20
4,4'-DDT	<0.097		1.95	2.20		ug/L		113	70 - 130	1	20
Acenaphthene	<0.097		1.95	1.98		ug/L		102	70 - 130	2	20
Acenaphthylene	<0.097		1.95	1.71		ug/L		88	70 - 130	2	20
Acetochlor	<0.097		1.95	2.21		ug/L		114	70 - 130	1	20
Alachlor	<0.048		1.95	2.20		ug/L		113	70 - 130	2	20
alpha-BHC	<0.097		1.95	2.12		ug/L		109	70 - 130	2	20
alpha-Chlordane	<0.048		1.95	2.12		ug/L		108	70 - 130	0	20
Anthracene	<0.019	F1	1.95	1.29	F1	ug/L		66	70 - 130	5	20
Atrazine	<0.048		1.95	2.23		ug/L		115	70 - 130	4	20
Benz(a)anthracene	<0.048		1.95	1.91		ug/L		98	70 - 130	0	20
Benzo[a]pyrene	<0.019		1.95	1.65		ug/L		85	70 - 130	2	20
Benzo[b]fluoranthene	<0.019		1.95	1.97		ug/L		101	70 - 130	2	20
Benzo[g,h,i]perylene	<0.048		1.95	1.92		ug/L		99	70 - 130	1	20
Benzo[k]fluoranthene	<0.019		1.95	1.96		ug/L		100	70 - 130	2	20
beta-BHC	<0.097		1.95	2.22		ug/L		114	70 - 130	1	20
Bis(2-ethylhexyl) phthalate	<0.58		1.95	1.79		ug/L		92	70 - 130	3	20
Bromacil	<0.097		1.95	2.26		ug/L		116	70 - 130	12	20
Butachlor	<0.048		1.95	2.30		ug/L		118	70 - 130	1	20
Butylbenzylphthalate	<0.48		1.95	2.25		ug/L		115	70 - 130	0	20
Chlorobenzilate	<0.097		1.95	2.30		ug/L		118	70 - 130	1	20
Chloroneb	<0.097		1.95	2.02		ug/L		104	70 - 130	1	20
Chlorothalonil (Draconil, Bravo)	<0.097		1.95	2.16		ug/L		111	70 - 130	1	20
Chlorpyrifos	<0.048		1.95	2.20		ug/L		113	70 - 130	1	20
Chrysene	<0.019		1.95	2.07		ug/L		106	70 - 130	0	20
delta-BHC	<0.097		1.95	2.11		ug/L		108	70 - 130	1	20
Di(2-ethylhexyl)adipate	<0.58		1.95	2.00		ug/L		103	70 - 130	2	20
Dibenz(a,h)anthracene	<0.048		1.95	1.89		ug/L		97	70 - 130	2	20
Diclorvos (DDVP)	<0.048		1.95	2.00		ug/L		103	70 - 130	5	20
Dieldrin	0.023		1.95	2.13		ug/L		108	70 - 130	0	20
Diethylphthalate	<0.48		1.95	2.19		ug/L		112	70 - 130	2	20

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

Lab Sample ID: 380-226421-S-1-A MSD
Matrix: Water
Analysis Batch: 242880

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 242654

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Dimethylphthalate	<0.48		1.95	2.08		ug/L		107	70 - 130	1	20
Di-n-butyl phthalate	<0.97		3.89	4.67		ug/L		114	70 - 130	0	20
Di-n-octyl phthalate	<0.097		1.95	1.73		ug/L		89	70 - 130	5	20
Endosulfan I (Alpha)	<0.097		1.95	2.07		ug/L		106	70 - 130	1	20
Endosulfan II (Beta)	<0.097		1.95	2.13		ug/L		109	70 - 130	2	20
Endosulfan sulfate	<0.097		1.95	2.10		ug/L		108	70 - 130	3	20
Endrin	<0.0097		1.95	2.34		ug/L		120	70 - 130	2	20
Endrin aldehyde	<0.097		1.95	2.06		ug/L		106	60 - 130	0	20
EPTC	<0.097		1.95	2.09		ug/L		108	70 - 130	0	20
Fluoranthene	<0.097		1.95	2.13		ug/L		110	70 - 130	2	20
Fluorene	<0.048		1.95	2.09		ug/L		108	70 - 130	2	20
gamma-Chlordane	<0.048		1.95	2.07		ug/L		106	70 - 130	2	20
Heptachlor	<0.0097		1.95	2.17		ug/L		112	70 - 130	2	20
Heptachlor epoxide (isomer B)	<0.0097		1.95	2.14		ug/L		110	70 - 130	0	20
Hexachlorobenzene	<0.048		1.95	2.09		ug/L		107	70 - 130	1	20
Hexachlorocyclopentadiene	<0.048		1.95	2.09		ug/L		107	70 - 130	2	20
Indeno[1,2,3-cd]pyrene	<0.048		1.95	1.90		ug/L		98	70 - 130	1	20
Isophorone	<0.097		1.95	2.01		ug/L		103	70 - 130	2	20
Lindane	<0.0097		1.95	2.20		ug/L		113	70 - 130	4	20
Malathion	<0.097		1.95	2.22		ug/L		114	70 - 130	0	20
Methoxychlor	<0.048		1.95	2.37		ug/L		122	70 - 130	0	20
Metolachlor	<0.048		1.95	2.19		ug/L		112	70 - 130	0	20
Molinate	<0.097		1.95	2.09		ug/L		108	70 - 130	2	20
Naphthalene	<0.097		1.95	2.00		ug/L		103	70 - 130	2	20
Parathion	<0.097	F1 *+	1.95	2.68	F1	ug/L		138	70 - 130	0	20
Pendimethalin (Penoxaline)	<0.097		1.95	2.44		ug/L		125	70 - 130	1	20
Phenanthrene	<0.039		1.95	1.99		ug/L		102	70 - 130	1	20
Propachlor	<0.048		1.95	2.22		ug/L		114	70 - 130	2	20
Pyrene	<0.048		1.95	2.16		ug/L		111	70 - 130	1	20
Simazine	<0.048		1.95	2.17		ug/L		111	70 - 130	7	20
Terbacil	<0.097		1.95	2.49		ug/L		128	70 - 130	11	20
Terbuthylazine	<0.097		1.95	2.23		ug/L		115	70 - 130	3	20
Thiobencarb	<0.097		1.95	2.17		ug/L		111	70 - 130	0	20
trans-Nonachlor	<0.048		1.95	2.07		ug/L		106	70 - 130	1	20
Trifluralin	<0.097		1.95	2.23		ug/L		115	70 - 130	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Nitro-m-xylene	*102*		*70 - 130*
Perylene-d12	*98*		*70 - 130*
Triphenylphosphate	*112*		*70 - 130*

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

Lab Sample ID: MB 570-774669/6
Matrix: Water
Analysis Batch: 774669

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			07/27/26 10:28	1

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		38 - 134		07/27/26 10:28	1

Lab Sample ID: LCS 570-774669/3
Matrix: Water
Analysis Batch: 774669

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	357		ug/L		89	78 - 120		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	69		38 - 134

Lab Sample ID: LCSD 570-774669/4
Matrix: Water
Analysis Batch: 774669

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	374		ug/L		94	78 - 120	5	10

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		38 - 134

Lab Sample ID: MRL 570-774669/5
Matrix: Water
Analysis Batch: 774669

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	13.3		ug/L		133	50 - 150		

Surrogate	MRL %Recovery	MRL Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		38 - 134

Lab Sample ID: 380-226428-C-1 MS
Matrix: Water
Analysis Batch: 774669

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (C4-C13)	<10		400	360		ug/L		90	68 - 122		

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		38 - 134

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

Lab Sample ID: 380-226428-D-1 MSD
Matrix: Water
Analysis Batch: 774669

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (C4-C13)	<10		400	381		ug/L		95	68 - 122	6	18

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*38 - 134*

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

Lab Sample ID: MB 570-773351/1-A
Matrix: Water
Analysis Batch: 779594

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 773351

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<25		25		ug/L		07/23/26 12:30	08/05/26 14:26	1
Motor Oil Range Organics [C24-C36]	<25		25		ug/L		07/23/26 12:30	08/05/26 14:26	1
C8-C18	<25		25		ug/L		07/23/26 12:30	08/05/26 14:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*91*		*60 - 130*	*07/23/26 12:30*	*08/05/26 14:26*	*1*

Lab Sample ID: LCS 570-773351/2-A
Matrix: Water
Analysis Batch: 778552

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 773351

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
C10-C28			1600	1510		ug/L		94	56 - 127		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-Octacosane (Surr)	*103*		*60 - 130*

Lab Sample ID: LCSD 570-773351/3-A
Matrix: Water
Analysis Batch: 778552

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 773351

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28			1600	1600		ug/L		100	56 - 127	6	23

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
n-Octacosane (Surr)	*110*		*60 - 130*

Lab Sample ID: MRL 570-773351/4-A
Matrix: Water
Analysis Batch: 779594

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 773351

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
C10-C28			0.0200	0.0270		mg/L		135	50 - 150		

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

Lab Sample ID: MRL 570-773351/4-A
Matrix: Water
Analysis Batch: 779594

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 773351

Surrogate	*MRL %Recovery*	*MRL Qualifier*	*Limits*
n-Octacosane (Surr)	*95*		*60 - 130*

Lab Sample ID: 380-226428-B-1-A MS
Matrix: Water
Analysis Batch: 778552

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 773351

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
C10-C28	<26	^3+	1620	1780		ug/L		110	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
n-Octacosane (Surr)	*119*		*60 - 130*

Lab Sample ID: 380-226428-B-1-B MSD
Matrix: Water
Analysis Batch: 778552

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 773351

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28	<26	^3+	1660	1870		ug/L		113	70 - 130	5	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
n-Octacosane (Surr)	*120*		*60 - 130*

GC/MS Semi VOA

Prep Batch: 242654

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-226442-1	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	525.2	
MB 380-242654/21-A	Method Blank	Total/NA	Water	525.2	
LCS 380-242654/23-A	Lab Control Sample	Total/NA	Water	525.2	
MRL 380-242654/22-A	Lab Control Sample	Total/NA	Water	525.2	
380-226421-R-1-A MS	Matrix Spike	Total/NA	Water	525.2	
380-226421-S-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	525.2	

Analysis Batch: 242880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-226442-1	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	525.2	242654
MB 380-242654/21-A	Method Blank	Total/NA	Water	525.2	242654
LCS 380-242654/23-A	Lab Control Sample	Total/NA	Water	525.2	242654
MRL 380-242654/22-A	Lab Control Sample	Total/NA	Water	525.2	242654
380-226421-R-1-A MS	Matrix Spike	Total/NA	Water	525.2	242654
380-226421-S-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	525.2	242654

GC VOA

Analysis Batch: 774669

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-226442-1	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	8015B GRO LL	
380-226442-2	TB: AIEA GULCH WELLS PUMP 2 (331-202-TPC	Total/NA	Water	8015B GRO LL	
MB 570-774669/6	Method Blank	Total/NA	Water	8015B GRO LL	
LCS 570-774669/3	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-774669/4	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	
MRL 570-774669/5	Lab Control Sample	Total/NA	Water	8015B GRO LL	
380-226428-C-1 MS	Matrix Spike	Total/NA	Water	8015B GRO LL	
380-226428-D-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8015B GRO LL	

GC Semi VOA

Prep Batch: 773351

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-226442-1 - RA	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	3510C	
MB 570-773351/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-773351/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-773351/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-773351/4-A	Lab Control Sample	Total/NA	Water	3510C	
380-226428-B-1-A MS	Matrix Spike	Total/NA	Water	3510C	
380-226428-B-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

Analysis Batch: 778552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 570-773351/2-A	Lab Control Sample	Total/NA	Water	8015B	773351
LCSD 570-773351/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	773351
380-226428-B-1-A MS	Matrix Spike	Total/NA	Water	8015B	773351
380-226428-B-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	8015B	773351

Analysis Batch: 779594

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-226442-1 - RA	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	8015B	773351
MB 570-773351/1-A	Method Blank	Total/NA	Water	8015B	773351

GC Semi VOA (Continued)

Analysis Batch: 779594 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MRL 570-773351/4-A	Lab Control Sample	Total/NA	Water	8015B	773351

Lab Chronicle

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

Job ID: 380-226442-1
SDG: Weekly: Aiea Gulch Wells Pump 2

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

Lab Sample ID: 380-226442-1

Date Collected: 07/20/26 10:57
Date Received: 07/22/26 09:50

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			242654	L9UA	EA POM	07/27/26 11:41
Total/NA	Analysis	525.2		1	242880	Q8LA	EA POM	07/28/26 16:25
Total/NA	Analysis	8015B GRO LL		1	774669	7CF2	EET CAL 4	07/27/26 15:13
Total/NA	Prep	3510C	RA		773351	EP2G	EET CAL 4	07/23/26 15:29
Total/NA	Analysis	8015B	RA	1	779594	TR8L	EET CAL 4	08/05/26 16:56

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

Lab Sample ID: 380-226442-2

Date Collected: 07/20/26 10:57
Date Received: 07/22/26 09:50

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	774669	7CF2	EET CAL 4	07/27/26 11:09

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: 380-226442-1
SDG: Weekly: Aiea Gulch Wells 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 *

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	Terbuthylazine
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.

Accreditation/Certification Summary

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

Job ID: 380-226442-1
SDG: Weekly: Aiea Gulch Wells 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	07-31-28
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: 380-226442-1
SDG: Weekly: Aiea Gulch Wells Pump 2

Method	Method Description	Protocol	Laboratory
525.2	Semivolatile Organic Compounds (GC/MS)	EPA	EA POM
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

Protocol References:

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: 380-226442-1
SDG: Weekly: Aiea Gulch Wells Pump 2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	PWSID Number
380-226442-1	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Drinking Water	07/20/26 10:57	07/22/26 09:50	HI0000331
380-226442-2	TB: AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Water	07/20/26 10:57	07/22/26 09:50	

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

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: bailey	Lab PM: Lopez, Maria	Carrier Tracking No(s):	COC No:
Client Contact: Mr. Kirk Iwamoto	Phone: +1 808 748 5840	E-Mail: Maria.Lopez@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: City & County of Honolulu	PWSID:			Job #:
Address: 630 South Beretania Street Chemistry Lab	Due Date Requested:			
City: Honolulu	TAT Requested (days):			
State, Zip: HI, 96843	Compliance Project: Δ Yes Δ No			
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#:			

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Wwater, Ssolid, Owaste/oil, BT=Tissue, A=Air)	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	625.2_PREC - (MOD) 625plus Plus TICs	537.1_DW_PREC - 537.1 Full List	533 - All Analytes	Total Number of containers	Special Instructions/Note:
			Preservation Code:				R	RA	Q	QA	Y	I		
Aiea Gulch Wells Pump 2 (331-202-TP072)	20-Jul-2026	1057	G	Water			2	3	2	2				
Aiea Gulch Wells Pump 2 (331-202-TP072) (Matrix Spike)				Water										
Aiea Gulch Wells Pump 2 (331-202-TP072) (Matrix Spike Duplicate)				Water										
TB: Aiea Gulch Wells Pump 2 (331-202-TP072)	20-Jul-2026	1057		Water				2						

Preservation Codes:
R - NaThioSO4
RA - NaThio/HCl
Q - Na2SO3
QA - Na2SO3/HCl
Y - Trizma
I - NH4 Acetate

Other:
380-226442 COC

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

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

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment: FedEx 8747 0203 8400

	Date/Time:	Company	Received by:	Date/Time:	Company
[redacted]	21 JUL 2026 1400	HBWS	Mark Miratis	7/22/26 956	EAP
	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: (ESIA) 2-3 + 0.0 = 2.3 ice/- frozen

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: 21JUL26
ACTWGT: 62.00 LB
CAD: 258050552/INET4535

BILL RECIPIENT

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

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

58KJ7/E3E4/484B

FedEx Express

J261026812001uv

2 of 7

WED - 22 JUL 10:30A
PRIORITY OVERNIGHT

MPS# 0263 8747 0203 8352
Mstr# 8747 0203 8341

0201

91768
ONT

WM ONTA

CA-US

(631A) 4.6+0.0=4.6 96l-frozen

Mark Urrutia
7/22/26 950

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.

Eurofins Pomona
941 Corporate Center Drive
Pomona, CA 91768-2642
Phone: 626-386-1100

Chain of Custody Record

eurofins | En

Loc: 380
226442

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Lopez, Maria	Carrier Tracking No(s): N/A	COC No: 380-360281.1
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 #: 380-226442-1
Address: 2841 Dow Avenue, Suite 100,	Due Date Requested: 8/4/2026			Preservation Codes: -
City: Tustin	TAT Requested (days): N/A			
State, Zip: CA, 92780				
Phone: 714-895-5494(Tel)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: RED-HILL	Project #: 38001111			
Site: Honolulu BWS Sites	SSOW#: N/A			Other: N/A

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015B_DRO_LL_CS/3510C_LL/HNL Ranges: C10-C24/C24-C36/C8-C18	625.1_SIM/625_Prep(MOD) Extended PAH List	8015B_GRO_LL/5030C(MOD) GRO	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
AIEA GULCH WELLS PUMP 2 (331-202-TP072) (380-226442-1)	7/20/26	10:57 Hawaiian	G	Water			X	X	X	7	MRLs are needed. Confirm any hits >RL.
TB: AIEA GULCH WELLS PUMP 2 (331-202-TP072) (380-226442	7/20/26	10:57 Hawaiian	G	Water					X	2	MRLs are needed. Confirm any hits >RL.

380-226442 Chain of Custody

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.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ 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:	Date/Time:	Company	Received by:	Date/Time:	Company
Mark Uyeda	7/22/26 1630	EEA	[illegible]	7.22.26 16:30	WW
Relinquished by: [illegible]	Date/Time: 7.22.26 18:30	Company WW	Received by: [illegible]	Date/Time: 7/22/26 1830	Company EC
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: 2.0 / 2.1 IR-4

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-226442-1
SDG Number: Weekly: Aiea Gulch Wells Pump 2

Login Number: 226442
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	
ClO4 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: 380-226442-1
SDG Number: Weekly: Aiea Gulch Wells Pump 2

Login Number: 226442
List Number: 2
Creator: Khana, Piyush

List Source: Eurofins Calscience
List Creation: 07/23/26 12:21 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	2.1
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	