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ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Erwin Kawata
City & County of Honolulu
630 South Beretania Street
Public Service Bldg. Room 310
Honolulu, Hawaii 96843

Generated 11/17/2025 9:38:18 PM

JOB DESCRIPTION

RED-HILL
Weekly: Halawa Shaft Viewing Pool
RUSH Weekly Red Hill

JOB NUMBER

380-180061-1

Eurofins Eaton Analytical Pomona
941 Corporate Center Drive
Pomona CA 91768-2642

See page two for job notes and contact information.

Eurofins Eaton Analytical Pomona

Job Notes

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

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

Compliance Statement

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

Authorization

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Authorized for release by
Maria Lopez, Project Manager
Maria.Lopez@et.eurofinsus.com
(626)386-1100

Table of Contents

Definitions/Glossary

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

Job ID: 380-180061-1
SDG: Weekly: Halawa Shaft Viewing Pool

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
^3+	Reporting Limit Check Standard is outside acceptance limits, high biased
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA TICs

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

GC Semi VOA

Qualifier	Qualifier Description
^3+	Reporting Limit Check Standard is outside acceptance limits, high biased

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
380-180061-1

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 10/30/2025 10:36 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 2.5°C, 4.9°C and 5.7°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
Method 8015B_DRO_LL_CS: The method reporting limit check (MRL) for preparation batch 570-649949 and analytical batch 570-654466 recovered outside control limits for the following analytes: C10-C28. These analytes were biased high in the MRL and were not detected in the associated samples; therefore, the data have been reported.
Method: 8015B_DRO_LL_CS

Method 8015B_DRO_LL_CS: An incorrect volume of spiking solution was inadvertently added to the laboratory control sample (LCS), laboratory control sample duplicate (LCSD), matrix spike (MS), and matrix spike duplicate (MSD) associated with preparation batch 570-649949 and analytical batch 570-654466. Percent recoveries are based on the amount spiked.
Method: 8015B_DRO_LL_CS

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: 380-180061-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: HALAWA SHAFT (331-241-TP401)

Lab Sample ID: 380-180061-1

PWSID Number: HI0000331

No Detections.

Client Sample ID: TB: HALAWA SHAFT (331-241-TP401)

Lab Sample ID: 380-180061-2

No Detections.

This Detection Summary does not include radiochemical test results.

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

Job ID: 380-180061-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: HALAWA SHAFT (331-241-TP401)
Date Collected: 10/28/25 09:30
Date Received: 10/30/25 10:36

Lab Sample ID: 380-180061-1
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	<0.097		0.097		ug/L		11/05/25 10:31	11/06/25 13:02	1
2,4'-DDD	<0.097		0.097		ug/L		11/05/25 10:31	11/06/25 13:02	1
2,4'-DDE	<0.097		0.097		ug/L		11/05/25 10:31	11/06/25 13:02	1
2,4'-DDT	<0.097		0.097		ug/L		11/05/25 10:31	11/06/25 13:02	1
2,4-Dinitrotoluene	<0.097		0.097		ug/L		11/05/25 10:31	11/06/25 13:02	1
2,6-Dinitrotoluene	<0.097		0.097		ug/L		11/05/25 10:31	11/06/25 13:02	1
2-Methylnaphthalene	<0.097		0.097		ug/L		11/05/25 10:31	11/06/25 13:02	1
4,4'-DDD	<0.097		0.097		ug/L		11/05/25 10:31	11/06/25 13:02	1
4,4'-DDE	<0.097		0.097		ug/L		11/05/25 10:31	11/06/25 13:02	1
4,4'-DDT	<0.097		0.097		ug/L		11/05/25 10:31	11/06/25 13:02	1
Acenaphthene	<0.097		0.097		ug/L		11/05/25 10:31	11/06/25 13:02	1
Acenaphthylene	<0.097		0.097		ug/L		11/05/25 10:31	11/06/25 13:02	1
Acetochlor	<0.097		0.097		ug/L		11/05/25 10:31	11/06/25 13:02	1
Alachlor	<0.048		0.048		ug/L		11/05/25 10:31	11/06/25 13:02	1
alpha-BHC	<0.097		0.097		ug/L		11/05/25 10:31	11/06/25 13:02	1
alpha-Chlordane	<0.048		0.048		ug/L		11/05/25 10:31	11/06/25 13:02	1
Anthracene	<0.019	F1	0.019		ug/L		11/05/25 10:31	11/06/25 13:02	1
Atrazine	<0.048		0.048		ug/L		11/05/25 10:31	11/06/25 13:02	1
Benz(a)anthracene	<0.048		0.048		ug/L		11/05/25 10:31	11/06/25 13:02	1
Benzo[a]pyrene	<0.019		0.019		ug/L		11/05/25 10:31	11/06/25 13:02	1
Benzo[b]fluoranthene	<0.019		0.019		ug/L		11/05/25 10:31	11/06/25 13:02	1
Benzo[g,h,i]perylene	<0.048		0.048		ug/L		11/05/25 10:31	11/06/25 13:02	1
Benzo[k]fluoranthene	<0.019		0.019		ug/L		11/05/25 10:31	11/06/25 13:02	1
beta-BHC	<0.097		0.097		ug/L		11/05/25 10:31	11/06/25 13:02	1
Bis(2-ethylhexyl) phthalate	<0.58		0.58		ug/L		11/05/25 10:31	11/06/25 13:02	1
Bromacil	<0.097		0.097		ug/L		11/05/25 10:31	11/06/25 13:02	1
Butachlor	<0.048		0.048		ug/L		11/05/25 10:31	11/06/25 13:02	1
Butylbenzylphthalate	<0.48		0.48		ug/L		11/05/25 10:31	11/06/25 13:02	1
Chlorobenzilate	<0.097		0.097		ug/L		11/05/25 10:31	11/06/25 13:02	1
Chloroneb	<0.097		0.097		ug/L		11/05/25 10:31	11/06/25 13:02	1
Chlorothalonil (Draconil, Bravo)	<0.097		0.097		ug/L		11/05/25 10:31	11/06/25 13:02	1
Chlorpyrifos	<0.048		0.048		ug/L		11/05/25 10:31	11/06/25 13:02	1
Chrysene	<0.019		0.019		ug/L		11/05/25 10:31	11/06/25 13:02	1
delta-BHC	<0.097		0.097		ug/L		11/05/25 10:31	11/06/25 13:02	1
Di(2-ethylhexyl)adipate	<0.58		0.58		ug/L		11/05/25 10:31	11/06/25 13:02	1
Dibenz(a,h)anthracene	<0.048		0.048		ug/L		11/05/25 10:31	11/06/25 13:02	1
Diclorvos (DDVP)	<0.048		0.048		ug/L		11/05/25 10:31	11/06/25 13:02	1
Dieldrin	<0.0097		0.0097		ug/L		11/05/25 10:31	11/06/25 13:02	1
Diethylphthalate	<0.48		0.48		ug/L		11/05/25 10:31	11/06/25 13:02	1
Dimethylphthalate	<0.48		0.48		ug/L		11/05/25 10:31	11/06/25 13:02	1
Di-n-butyl phthalate	<0.97		0.97		ug/L		11/05/25 10:31	11/06/25 13:02	1
Di-n-octyl phthalate	<0.097		0.097		ug/L		11/05/25 10:31	11/06/25 13:02	1
Endosulfan I (Alpha)	<0.097		0.097		ug/L		11/05/25 10:31	11/06/25 13:02	1
Endosulfan II (Beta)	<0.097		0.097		ug/L		11/05/25 10:31	11/06/25 13:02	1
Endosulfan sulfate	<0.097		0.097		ug/L		11/05/25 10:31	11/06/25 13:02	1
Endrin	<0.0097		0.0097		ug/L		11/05/25 10:31	11/06/25 13:02	1
Endrin aldehyde	<0.097		0.097		ug/L		11/05/25 10:31	11/06/25 13:02	1
EPTC	<0.097		0.097		ug/L		11/05/25 10:31	11/06/25 13:02	1
Fluoranthene	<0.097		0.097		ug/L		11/05/25 10:31	11/06/25 13:02	1

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

Job ID: 380-180061-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: HALAWA SHAFT (331-241-TP401)
Date Collected: 10/28/25 09:30
Date Received: 10/30/25 10:36

Lab Sample ID: 380-180061-1
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
Fluorene	<0.048		0.048		ug/L		11/05/25 10:31	11/06/25 13:02	1
gamma-Chlordane	<0.048		0.048		ug/L		11/05/25 10:31	11/06/25 13:02	1
Heptachlor	<0.0097		0.0097		ug/L		11/05/25 10:31	11/06/25 13:02	1
Heptachlor epoxide (isomer B)	<0.0097	^3+	0.0097		ug/L		11/05/25 10:31	11/06/25 13:02	1
Hexachlorobenzene	<0.048		0.048		ug/L		11/05/25 10:31	11/06/25 13:02	1
Hexachlorocyclopentadiene	<0.048		0.048		ug/L		11/05/25 10:31	11/06/25 13:02	1
Indeno[1,2,3-cd]pyrene	<0.048		0.048		ug/L		11/05/25 10:31	11/06/25 13:02	1
Isophorone	<0.097		0.097		ug/L		11/05/25 10:31	11/06/25 13:02	1
Lindane	<0.0097		0.0097		ug/L		11/05/25 10:31	11/06/25 13:02	1
Malathion	<0.097		0.097		ug/L		11/05/25 10:31	11/06/25 13:02	1
Methoxychlor	<0.048		0.048		ug/L		11/05/25 10:31	11/06/25 13:02	1
Metolachlor	<0.048		0.048		ug/L		11/05/25 10:31	11/06/25 13:02	1
Molinate	<0.097		0.097		ug/L		11/05/25 10:31	11/06/25 13:02	1
Naphthalene	<0.097		0.097		ug/L		11/05/25 10:31	11/06/25 13:02	1
Parathion	<0.097		0.097		ug/L		11/05/25 10:31	11/06/25 13:02	1
Pendimethalin (Penoxaline)	<0.097		0.097		ug/L		11/05/25 10:31	11/06/25 13:02	1
Phenanthrene	<0.039		0.039		ug/L		11/05/25 10:31	11/06/25 13:02	1
Propachlor	<0.048		0.048		ug/L		11/05/25 10:31	11/06/25 13:02	1
Pyrene	<0.048		0.048		ug/L		11/05/25 10:31	11/06/25 13:02	1
Simazine	<0.048		0.048		ug/L		11/05/25 10:31	11/06/25 13:02	1
Terbacil	<0.097		0.097		ug/L		11/05/25 10:31	11/06/25 13:02	1
Terbuthylazine	<0.097		0.097		ug/L		11/05/25 10:31	11/06/25 13:02	1
Thiobencarb	<0.097		0.097		ug/L		11/05/25 10:31	11/06/25 13:02	1
Total Permethrin (mixed isomers)	<0.19		0.19		ug/L		11/05/25 10:31	11/06/25 13:02	1
trans-Nonachlor	<0.048		0.048		ug/L		11/05/25 10:31	11/06/25 13:02	1
Trifluralin	<0.097		0.097		ug/L		11/05/25 10:31	11/06/25 13:02	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*	*11/05/25 10:31*	*11/06/25 13:02*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Nitro-m-xylene	*102*		*70 - 130*	*11/05/25 10:31*	*11/06/25 13:02*	*1*
Perylene-d12	*85*		*70 - 130*	*11/05/25 10:31*	*11/06/25 13:02*	*1*
Triphenylphosphate	*105*		*70 - 130*	*11/05/25 10:31*	*11/06/25 13:02*	*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		10/31/25 08:18	11/14/25 04:59	1
2-Methylnaphthalene	<0.19		0.19		ug/L		10/31/25 08:18	11/14/25 04:59	1
Acenaphthene	<0.19		0.19		ug/L		10/31/25 08:18	11/14/25 04:59	1
Acenaphthylene	<0.19		0.19		ug/L		10/31/25 08:18	11/14/25 04:59	1
Anthracene	<0.19		0.19		ug/L		10/31/25 08:18	11/14/25 04:59	1
Benzo[a]anthracene	<0.19		0.19		ug/L		10/31/25 08:18	11/14/25 04:59	1
Benzo[a]pyrene	<0.19		0.19		ug/L		10/31/25 08:18	11/14/25 04:59	1
Benzo[b]fluoranthene	<0.19		0.19		ug/L		10/31/25 08:18	11/14/25 04:59	1
Benzo[g,h,i]perylene	<0.19		0.19		ug/L		10/31/25 08:18	11/14/25 04:59	1
Benzo[k]fluoranthene	<0.19		0.19		ug/L		10/31/25 08:18	11/14/25 04:59	1
Chrysene	<0.19		0.19		ug/L		10/31/25 08:18	11/14/25 04:59	1
Dibenz(a,h)anthracene	<0.19		0.19		ug/L		10/31/25 08:18	11/14/25 04:59	1
Fluoranthene	<0.19		0.19		ug/L		10/31/25 08:18	11/14/25 04:59	1

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

Job ID: 380-180061-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: HALAWA SHAFT (331-241-TP401)
Date Collected: 10/28/25 09:30
Date Received: 10/30/25 10:36

Lab Sample ID: 380-180061-1
Matrix: Drinking Water
PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	<0.19		0.19		ug/L		10/31/25 08:18	11/14/25 04:59	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19		ug/L		10/31/25 08:18	11/14/25 04:59	1
Naphthalene	<0.19		0.19		ug/L		10/31/25 08:18	11/14/25 04:59	1
Phenanthrene	<0.19		0.19		ug/L		10/31/25 08:18	11/14/25 04:59	1
Pyrene	<0.19		0.19		ug/L		10/31/25 08:18	11/14/25 04:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*68*		*28 - 127*	*10/31/25 08:18*	*11/14/25 04:59*	*1*
2-Fluorobiphenyl (Surr)	*68*		*31 - 120*	*10/31/25 08:18*	*11/14/25 04:59*	*1*
2-Fluorophenol (Surr)	*40*		*17 - 120*	*10/31/25 08:18*	*11/14/25 04:59*	*1*
Nitrobenzene-d5 (Surr)	*65*		*27 - 120*	*10/31/25 08:18*	*11/14/25 04:59*	*1*
Phenol-d6 (Surr)	*26*		*10 - 120*	*10/31/25 08:18*	*11/14/25 04:59*	*1*
p-Terphenyl-d14 (Surr)	*76*		*45 - 120*	*10/31/25 08:18*	*11/14/25 04:59*	*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*
Unknown	*28*	*T J*	*ug/L*		*1.88*	*N/A*	*10/31/25 08:18*	*11/17/25 16:52*	*1*
3-Penten-2-one, 4-methyl-	*12*	*T J N*	*ug/L*		*1.92*	*141-79-7*	*10/31/25 08:18*	*11/17/25 16:52*	*1*
Unknown	*25*	*T J*	*ug/L*		*2.02*	*N/A*	*10/31/25 08:18*	*11/17/25 16:52*	*1*
Pyridine, 2-fluoro-	*9.8*	*T J N*	*ug/L*		*2.80*	*372-48-5*	*10/31/25 08:18*	*11/17/25 16:52*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*82*		*33 - 139*	*10/31/25 08:18*	*11/17/25 16:52*	*1*
2-Fluorobiphenyl (Surr)	*90*		*33 - 126*	*10/31/25 08:18*	*11/17/25 16:52*	*1*
2-Fluorophenol (Surr)	*46*		*12 - 120*	*10/31/25 08:18*	*11/17/25 16:52*	*1*
Nitrobenzene-d5 (Surr)	*82*		*36 - 120*	*10/31/25 08:18*	*11/17/25 16:52*	*1*
Phenol-d6 (Surr)	*27*		*10 - 120*	*10/31/25 08:18*	*11/17/25 16:52*	*1*
p-Terphenyl-d14 (Surr)	*87*		*47 - 131*	*10/31/25 08:18*	*11/17/25 16:52*	*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			11/08/25 17:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*38 - 134*		*11/08/25 17:15*	*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		11/02/25 11:32	11/11/25 15:53	1
Motor Oil Range Organics [C24-C36]	<26		26		ug/L		11/02/25 11:32	11/11/25 15:53	1
C8-C18	<26		26		ug/L		11/02/25 11:32	11/11/25 15:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*113*		*60 - 130*	*11/02/25 11:32*	*11/11/25 15:53*	*1*

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

Job ID: 380-180061-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: TB: HALAWA SHAFT (331-241-TP401)
Date Collected: 10/28/25 09:30
Date Received: 10/30/25 10:36

Lab Sample ID: 380-180061-2
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			11/08/25 16:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*38 - 134*		*11/08/25 16:09*	*1*

Action Limit Summary

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

Job ID: 380-180061-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: HALAWA SHAFT (331-241-TP401)

Lab Sample ID: 380-180061-1

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	<0.048		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	^3+	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		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: 380-180061-1
SDG: Weekly: Halawa Shaft Viewing Pool

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)
380-180061-1	HALAWA SHAFT (331-241-TP401)	102	85	105
380-180061-1 MS	HALAWA SHAFT (331-241-TP401)	102	96	108

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)
380-180065-I-1-A DU	Duplicate	103	88	104
LCS 380-184576/22-A	Lab Control Sample	102	96	109
MB 380-184576/20-A	Method Blank	101	84	99
MRL 380-184641/21-A	Lab Control Sample	95	93	94

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**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL6	TPHd14
Lab Sample ID	Client Sample ID	(33-139)	(33-126)	(12-120)	(36-120)	(10-120)	(47-131)
380-180061-1	HALAWA SHAFT (331-241-TP401)	82	90	46	82	27	87

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**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL6	TPHd14
Lab Sample ID	Client Sample ID	(33-139)	(33-126)	(12-120)	(36-120)	(10-120)	(47-131)
MB 570-649162/1-A	Method Blank	81	84	53	87	32	82

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)
PHL6 = Phenol-d6 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

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

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

		Percent Surrogate Recovery (Acceptance Limits)							
		TBP	FBP	2FP	NBZ	PHL6	TPHd14		
Lab Sample ID	Client Sample ID	(28-127)	(31-120)	(17-120)	(27-120)	(10-120)	(45-120)		
380-180061-1	HALAWA SHAFT (331-241-TP401)	68	68	40	65	26	76		

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)							
		TBP	FBP	2FP	NBZ	PHL6	TPHd14		
Lab Sample ID	Client Sample ID	(28-127)	(31-120)	(17-120)	(27-120)	(10-120)	(45-120)		
380-179754-A-1-A MS	Matrix Spike	75	74	53	65	35	82		
380-179754-A-1-B MSD	Matrix Spike Duplicate	67	64	47	59	30	73		
LCS 570-649162/2-A	Lab Control Sample	72	70	51	64	33	77		
MB 570-649162/1-A	Method Blank	57	56	36	58	25	67		

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**

		Percent Surrogate Recovery (Acceptance Limits)							
		TBP	FBP	2FP	NBZ	PHL6	TPHd14		
Lab Sample ID	Client Sample ID								
LCSD 570-649162/3-A	Lab Control Sample Dup								

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)

Surrogate Summary

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

Job ID: 380-180061-1
SDG: Weekly: Halawa Shaft Viewing Pool

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)
380-180061-1	HALAWA SHAFT (331-241-TP401)	98

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)
380-180061-2	TB: HALAWA SHAFT (331-241-TP4	95
380-181052-C-1 MS	Matrix Spike	98
380-181052-C-1 MSD	Matrix Spike Duplicate	94
LCS 570-653207/4	Lab Control Sample	92
LCSD 570-653207/5	Lab Control Sample Dup	98
MB 570-653207/6	Method Blank	95
MRL 570-653207/3	Lab Control Sample	91

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)
		OTCSN1
Lab Sample ID	Client Sample ID	(60-130)
380-180061-1	HALAWA SHAFT (331-241-TP401)	113

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)
		OTCSN1
Lab Sample ID	Client Sample ID	(60-130)
380-179754-C-1-A MS	Matrix Spike	125
380-179754-C-1-B MSD	Matrix Spike Duplicate	125
LCS 570-649949/2-A	Lab Control Sample	123
LCSD 570-649949/3-A	Lab Control Sample Dup	115
MB 570-649949/1-A	Method Blank	105
MRL 570-649949/4-A	Lab Control Sample	127

Surrogate Legend

OTCSN = n-Octacosane (Surr)

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

Lab Sample ID: MB 380-184576/20-A
Matrix: Water
Analysis Batch: 184792

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 184576

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.097		0.097		ug/L		11/05/25 10:31	11/06/25 11:40	1
2,4'-DDD	<0.097		0.097		ug/L		11/05/25 10:31	11/06/25 11:40	1
2,4'-DDE	<0.097		0.097		ug/L		11/05/25 10:31	11/06/25 11:40	1
2,4'-DDT	<0.097		0.097		ug/L		11/05/25 10:31	11/06/25 11:40	1
2,4-Dinitrotoluene	<0.097		0.097		ug/L		11/05/25 10:31	11/06/25 11:40	1
2,6-Dinitrotoluene	<0.097		0.097		ug/L		11/05/25 10:31	11/06/25 11:40	1
2-Methylnaphthalene	<0.097		0.097		ug/L		11/05/25 10:31	11/06/25 11:40	1
4,4'-DDD	<0.097		0.097		ug/L		11/05/25 10:31	11/06/25 11:40	1
4,4'-DDE	<0.097		0.097		ug/L		11/05/25 10:31	11/06/25 11:40	1
4,4'-DDT	<0.097		0.097		ug/L		11/05/25 10:31	11/06/25 11:40	1
Acenaphthene	<0.097		0.097		ug/L		11/05/25 10:31	11/06/25 11:40	1
Acenaphthylene	<0.097		0.097		ug/L		11/05/25 10:31	11/06/25 11:40	1
Acetochlor	<0.097		0.097		ug/L		11/05/25 10:31	11/06/25 11:40	1
Alachlor	<0.049		0.049		ug/L		11/05/25 10:31	11/06/25 11:40	1
alpha-BHC	<0.097		0.097		ug/L		11/05/25 10:31	11/06/25 11:40	1
alpha-Chlordane	<0.049		0.049		ug/L		11/05/25 10:31	11/06/25 11:40	1
Anthracene	<0.019		0.019		ug/L		11/05/25 10:31	11/06/25 11:40	1
Atrazine	<0.049		0.049		ug/L		11/05/25 10:31	11/06/25 11:40	1
Benz(a)anthracene	<0.049		0.049		ug/L		11/05/25 10:31	11/06/25 11:40	1
Benzo[a]pyrene	<0.019		0.019		ug/L		11/05/25 10:31	11/06/25 11:40	1
Benzo[b]fluoranthene	<0.019		0.019		ug/L		11/05/25 10:31	11/06/25 11:40	1
Benzo[g,h,i]perylene	<0.049		0.049		ug/L		11/05/25 10:31	11/06/25 11:40	1
Benzo[k]fluoranthene	<0.019		0.019		ug/L		11/05/25 10:31	11/06/25 11:40	1
beta-BHC	<0.097		0.097		ug/L		11/05/25 10:31	11/06/25 11:40	1
Bis(2-ethylhexyl) phthalate	<0.58		0.58		ug/L		11/05/25 10:31	11/06/25 11:40	1
Bromacil	<0.097		0.097		ug/L		11/05/25 10:31	11/06/25 11:40	1
Butachlor	<0.049		0.049		ug/L		11/05/25 10:31	11/06/25 11:40	1
Butylbenzylphthalate	<0.49		0.49		ug/L		11/05/25 10:31	11/06/25 11:40	1
Chlorobenzilate	<0.097		0.097		ug/L		11/05/25 10:31	11/06/25 11:40	1
Chloroneb	<0.097		0.097		ug/L		11/05/25 10:31	11/06/25 11:40	1
Chlorothalonil (Draconil, Bravo)	<0.097		0.097		ug/L		11/05/25 10:31	11/06/25 11:40	1
Chlorpyrifos	<0.049		0.049		ug/L		11/05/25 10:31	11/06/25 11:40	1
Chrysene	<0.019		0.019		ug/L		11/05/25 10:31	11/06/25 11:40	1
delta-BHC	<0.097		0.097		ug/L		11/05/25 10:31	11/06/25 11:40	1
Di(2-ethylhexyl)adipate	<0.58		0.58		ug/L		11/05/25 10:31	11/06/25 11:40	1
Dibenz(a,h)anthracene	<0.049		0.049		ug/L		11/05/25 10:31	11/06/25 11:40	1
Diclorvos (DDVP)	<0.049		0.049		ug/L		11/05/25 10:31	11/06/25 11:40	1
Dieldrin	<0.0097		0.0097		ug/L		11/05/25 10:31	11/06/25 11:40	1
Diethylphthalate	<0.49		0.49		ug/L		11/05/25 10:31	11/06/25 11:40	1
Dimethylphthalate	<0.49		0.49		ug/L		11/05/25 10:31	11/06/25 11:40	1
Di-n-butyl phthalate	<0.97		0.97		ug/L		11/05/25 10:31	11/06/25 11:40	1
Di-n-octyl phthalate	<0.097		0.097		ug/L		11/05/25 10:31	11/06/25 11:40	1
Endosulfan I (Alpha)	<0.097		0.097		ug/L		11/05/25 10:31	11/06/25 11:40	1
Endosulfan II (Beta)	<0.097		0.097		ug/L		11/05/25 10:31	11/06/25 11:40	1
Endosulfan sulfate	<0.097		0.097		ug/L		11/05/25 10:31	11/06/25 11:40	1
Endrin	<0.0097		0.0097		ug/L		11/05/25 10:31	11/06/25 11:40	1
Endrin aldehyde	<0.097		0.097		ug/L		11/05/25 10:31	11/06/25 11:40	1
EPTC	<0.097		0.097		ug/L		11/05/25 10:31	11/06/25 11:40	1

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

Lab Sample ID: MB 380-184576/20-A
Matrix: Water
Analysis Batch: 184792

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 184576

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.097		0.097		ug/L		11/05/25 10:31	11/06/25 11:40	1
Fluorene	<0.049		0.049		ug/L		11/05/25 10:31	11/06/25 11:40	1
gamma-Chlordane	<0.049		0.049		ug/L		11/05/25 10:31	11/06/25 11:40	1
Heptachlor	<0.0097		0.0097		ug/L		11/05/25 10:31	11/06/25 11:40	1
Heptachlor epoxide (isomer B)	<0.0097	^3+	0.0097		ug/L		11/05/25 10:31	11/06/25 11:40	1
Hexachlorobenzene	<0.049		0.049		ug/L		11/05/25 10:31	11/06/25 11:40	1
Hexachlorocyclopentadiene	<0.049		0.049		ug/L		11/05/25 10:31	11/06/25 11:40	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049		ug/L		11/05/25 10:31	11/06/25 11:40	1
Isophorone	<0.097		0.097		ug/L		11/05/25 10:31	11/06/25 11:40	1
Lindane	<0.0097		0.0097		ug/L		11/05/25 10:31	11/06/25 11:40	1
Malathion	<0.097		0.097		ug/L		11/05/25 10:31	11/06/25 11:40	1
Methoxychlor	<0.049		0.049		ug/L		11/05/25 10:31	11/06/25 11:40	1
Metolachlor	<0.049		0.049		ug/L		11/05/25 10:31	11/06/25 11:40	1
Molinate	<0.097		0.097		ug/L		11/05/25 10:31	11/06/25 11:40	1
Naphthalene	<0.097		0.097		ug/L		11/05/25 10:31	11/06/25 11:40	1
Parathion	<0.097		0.097		ug/L		11/05/25 10:31	11/06/25 11:40	1
Pendimethalin (Penoxaline)	<0.097		0.097		ug/L		11/05/25 10:31	11/06/25 11:40	1
Phenanthrene	<0.039		0.039		ug/L		11/05/25 10:31	11/06/25 11:40	1
Propachlor	<0.049		0.049		ug/L		11/05/25 10:31	11/06/25 11:40	1
Pyrene	<0.049		0.049		ug/L		11/05/25 10:31	11/06/25 11:40	1
Simazine	<0.049		0.049		ug/L		11/05/25 10:31	11/06/25 11:40	1
Terbacil	<0.097		0.097		ug/L		11/05/25 10:31	11/06/25 11:40	1
Terbuthylazine	<0.097		0.097		ug/L		11/05/25 10:31	11/06/25 11:40	1
Thiobencarb	<0.097		0.097		ug/L		11/05/25 10:31	11/06/25 11:40	1
Total Permethrin (mixed isomers)	<0.19		0.19		ug/L		11/05/25 10:31	11/06/25 11:40	1
trans-Nonachlor	<0.049		0.049		ug/L		11/05/25 10:31	11/06/25 11:40	1
Trifluralin	<0.097		0.097		ug/L		11/05/25 10:31	11/06/25 11:40	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Cyclopentene, 1,2,3,4,5-pentamethyl-	*1.18*	*T J N*	*ug/L*		*2.56*	*1000154-28-6*	*11/05/25 10:31*	*11/06/25 11:40*	*1*
Undecane	*2.85*	*T J N*	*ug/L*		*3.16*	*1120-21-4*	*11/05/25 10:31*	*11/06/25 11:40*	*1*
Cyclopentasiloxane, decamethyl-	*0.498*	*T J N*	*ug/L*		*3.29*	*541-02-6*	*11/05/25 10:31*	*11/06/25 11:40*	*1*
Unknown	*0.705*	*T J*	*ug/L*		*3.91*	*N/A*	*11/05/25 10:31*	*11/06/25 11:40*	*1*
9-Octadecenamide, (Z)-	*1.27*	*T J N*	*ug/L*		*7.93*	*301-02-0*	*11/05/25 10:31*	*11/06/25 11:40*	*1*
Unknown	*0.684*	*T J*	*ug/L*		*15.03*	*N/A*	*11/05/25 10:31*	*11/06/25 11:40*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Nitro-m-xylene	*101*		*70 - 130*	*11/05/25 10:31*	*11/06/25 11:40*	*1*
Perylene-d12	*84*		*70 - 130*	*11/05/25 10:31*	*11/06/25 11:40*	*1*
Triphenylphosphate	*99*		*70 - 130*	*11/05/25 10:31*	*11/06/25 11:40*	*1*

Lab Sample ID: LCS 380-184576/22-A
Matrix: Water
Analysis Batch: 184792

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 184576

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1-Methylnaphthalene			1.95	1.90		ug/L		98	70 - 130		

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

Lab Sample ID: LCS 380-184576/22-A
Matrix: Water
Analysis Batch: 184792

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 184576

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4'-DDD	1.95	2.03		ug/L		104	70 - 130
2,4'-DDE	1.95	2.10		ug/L		108	70 - 130
2,4'-DDT	1.95	1.93		ug/L		99	70 - 130
2,4-Dinitrotoluene	1.95	2.05		ug/L		106	70 - 130
2,6-Dinitrotoluene	1.95	2.03		ug/L		104	70 - 130
2-Methylnaphthalene	1.95	1.92		ug/L		99	70 - 130
4,4'-DDD	1.95	2.05		ug/L		105	70 - 130
4,4'-DDE	1.95	2.01		ug/L		103	70 - 130
4,4'-DDT	1.95	2.01		ug/L		103	70 - 130
Acenaphthene	1.95	2.00		ug/L		103	70 - 130
Acenaphthylene	1.95	2.00		ug/L		103	70 - 130
Acetochlor	1.95	2.23		ug/L		115	70 - 130
Alachlor	1.95	1.94		ug/L		100	70 - 130
alpha-BHC	1.95	1.93		ug/L		99	70 - 130
alpha-Chlordane	1.95	1.89		ug/L		97	70 - 130
Anthracene	1.95	1.80		ug/L		92	70 - 130
Atrazine	1.95	2.25		ug/L		116	70 - 130
Benz(a)anthracene	1.95	1.99		ug/L		102	70 - 130
Benzo[a]pyrene	1.95	2.04		ug/L		105	70 - 130
Benzo[b]fluoranthene	1.95	2.05		ug/L		105	70 - 130
Benzo[g,h,i]perylene	1.95	2.04		ug/L		105	70 - 130
Benzo[k]fluoranthene	1.95	1.97		ug/L		101	70 - 130
beta-BHC	1.95	2.25		ug/L		116	70 - 130
Bis(2-ethylhexyl) phthalate	1.95	2.42		ug/L		124	70 - 130
Bromacil	1.95	2.15		ug/L		110	70 - 130
Butachlor	1.95	2.01		ug/L		103	70 - 130
Butylbenzylphthalate	1.95	2.32		ug/L		119	70 - 130
Chlorobenzilate	1.95	2.42		ug/L		124	70 - 130
Chloroneb	1.95	1.99		ug/L		102	70 - 130
Chlorothalonil (Draconil, Bravo)	1.95	2.20		ug/L		113	70 - 130
Chlorpyrifos	1.95	1.98		ug/L		101	70 - 130
Chrysene	1.95	1.84		ug/L		94	70 - 130
delta-BHC	1.95	1.93		ug/L		99	70 - 130
Di(2-ethylhexyl)adipate	1.95	2.28		ug/L		117	70 - 130
Dibenz(a,h)anthracene	1.95	1.98		ug/L		102	70 - 130
Diclorvos (DDVP)	1.95	2.16		ug/L		111	70 - 130
Dieldrin	1.95	1.97		ug/L		101	70 - 130
Diethylphthalate	1.95	2.20		ug/L		113	70 - 130
Dimethylphthalate	1.95	2.08		ug/L		107	70 - 130
Di-n-butyl phthalate	3.89	4.47		ug/L		115	70 - 130
Di-n-octyl phthalate	1.95	2.15		ug/L		111	70 - 130
Endosulfan I (Alpha)	1.95	2.04		ug/L		105	70 - 130
Endosulfan II (Beta)	1.95	2.04		ug/L		105	70 - 130
Endosulfan sulfate	1.95	2.10		ug/L		108	70 - 130
Endrin	1.95	2.04		ug/L		105	70 - 130
Endrin aldehyde	1.95	2.13		ug/L		110	60 - 130
EPTC	1.95	2.21		ug/L		113	70 - 130
Fluoranthene	1.95	2.13		ug/L		109	70 - 130
Fluorene	1.95	1.82		ug/L		93	70 - 130

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

Lab Sample ID: LCS 380-184576/22-A
Matrix: Water
Analysis Batch: 184792

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 184576

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
gamma-Chlordane	1.95	1.91		ug/L		98	70 - 130
Heptachlor	1.95	2.11		ug/L		108	70 - 130
Heptachlor epoxide (isomer B)	1.95	1.90	^3+	ug/L		98	70 - 130
Hexachlorobenzene	1.95	2.05		ug/L		105	70 - 130
Hexachlorocyclopentadiene	1.95	1.98		ug/L		102	70 - 130
Indeno[1,2,3-cd]pyrene	1.95	2.07		ug/L		106	70 - 130
Isophorone	1.95	2.08		ug/L		107	70 - 130
Lindane	1.95	2.18		ug/L		112	70 - 130
Malathion	1.95	2.09		ug/L		107	70 - 130
Methoxychlor	1.95	2.10		ug/L		108	70 - 130
Metolachlor	1.95	1.90		ug/L		98	70 - 130
Molinate	1.95	2.24		ug/L		115	70 - 130
Naphthalene	1.95	1.99		ug/L		102	70 - 130
Parathion	1.95	2.35		ug/L		121	70 - 130
Pendimethalin (Penoxaline)	1.95	2.06		ug/L		106	70 - 130
Phenanthrene	1.95	1.92		ug/L		98	70 - 130
Propachlor	1.95	2.30		ug/L		118	70 - 130
Pyrene	1.95	2.20		ug/L		113	70 - 130
Simazine	1.95	2.08		ug/L		107	70 - 130
Terbacil	1.95	2.34		ug/L		120	70 - 130
Terbuthylazine	1.95	2.29		ug/L		118	70 - 130
Thiobencarb	1.95	2.15		ug/L		111	70 - 130
trans-Nonachlor	1.95	1.79		ug/L		92	70 - 130
Trifluralin	1.95	2.09		ug/L		107	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Nitro-m-xylene	*102*		*70 - 130*
Perylene-d12	*96*		*70 - 130*
Triphenylphosphate	*109*		*70 - 130*

Lab Sample ID: 380-180061-1 MS
Matrix: Drinking Water
Analysis Batch: 184792

Client Sample ID: HALAWA SHAFT (331-241-TP401)
Prep Type: Total/NA
Prep Batch: 184576

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.097		1.94	1.90		ug/L		97	70 - 130
2,4'-DDD	<0.097		1.94	2.01		ug/L		104	70 - 130
2,4'-DDE	<0.097		1.94	2.08		ug/L		107	70 - 130
2,4'-DDT	<0.097		1.94	1.93		ug/L		100	70 - 130
2,4-Dinitrotoluene	<0.097		1.94	2.09		ug/L		107	70 - 130
2,6-Dinitrotoluene	<0.097		1.94	2.07		ug/L		107	70 - 130
2-Methylnaphthalene	<0.097		1.94	1.94		ug/L		99	70 - 130
4,4'-DDD	<0.097		1.94	2.07		ug/L		106	70 - 130
4,4'-DDE	<0.097		1.94	1.92		ug/L		99	70 - 130
4,4'-DDT	<0.097		1.94	1.97		ug/L		101	70 - 130
Acenaphthene	<0.097		1.94	1.96		ug/L		101	70 - 130
Acenaphthylene	<0.097		1.94	1.99		ug/L		102	70 - 130
Acetochlor	<0.097		1.94	2.09		ug/L		108	70 - 130

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

Lab Sample ID: 380-180061-1 MS
Matrix: Drinking Water
Analysis Batch: 184792

Client Sample ID: HALAWA SHAFT (331-241-TP401)
Prep Type: Total/NA
Prep Batch: 184576

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Alachlor	<0.048		1.94	1.92		ug/L		99	70 - 130
alpha-BHC	<0.097		1.94	1.86		ug/L		95	70 - 130
alpha-Chlordane	<0.048		1.94	1.88		ug/L		97	70 - 130
Anthracene	<0.019	F1	1.94	1.13	F1	ug/L		58	70 - 130
Atrazine	<0.048		1.94	2.18		ug/L		112	70 - 130
Benz(a)anthracene	<0.048		1.94	1.87		ug/L		96	70 - 130
Benzo[a]pyrene	<0.019		1.94	1.82		ug/L		94	70 - 130
Benzo[b]fluoranthene	<0.019		1.94	2.22		ug/L		114	70 - 130
Benzo[g,h,i]perylene	<0.048		1.94	2.03		ug/L		105	70 - 130
Benzo[k]fluoranthene	<0.019		1.94	2.00		ug/L		103	70 - 130
beta-BHC	<0.097		1.94	2.18		ug/L		112	70 - 130
Bis(2-ethylhexyl) phthalate	<0.58		1.94	2.38		ug/L		123	70 - 130
Bromacil	<0.097		1.94	2.09		ug/L		107	70 - 130
Butachlor	<0.048		1.94	2.03		ug/L		104	70 - 130
Butylbenzylphthalate	<0.48		1.94	2.28		ug/L		117	70 - 130
Chlorobenzilate	<0.097		1.94	2.46		ug/L		127	70 - 130
Chloroneb	<0.097		1.94	1.92		ug/L		99	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.097		1.94	2.15		ug/L		111	70 - 130
Chlorpyrifos	<0.048		1.94	2.03		ug/L		104	70 - 130
Chrysene	<0.019		1.94	1.92		ug/L		99	70 - 130
delta-BHC	<0.097		1.94	1.87		ug/L		96	70 - 130
Di(2-ethylhexyl)adipate	<0.58		1.94	2.17		ug/L		112	70 - 130
Dibenz(a,h)anthracene	<0.048		1.94	1.97		ug/L		101	70 - 130
Diclorvos (DDVP)	<0.048		1.94	2.15		ug/L		111	70 - 130
Dieldrin	<0.0097		1.94	1.92		ug/L		99	70 - 130
Diethylphthalate	<0.48		1.94	2.14		ug/L		110	70 - 130
Dimethylphthalate	<0.48		1.94	2.02		ug/L		104	70 - 130
Di-n-butyl phthalate	<0.97		3.89	4.40		ug/L		113	70 - 130
Di-n-octyl phthalate	<0.097		1.94	2.10		ug/L		108	70 - 130
Endosulfan I (Alpha)	<0.097		1.94	2.02		ug/L		104	70 - 130
Endosulfan II (Beta)	<0.097		1.94	2.01		ug/L		103	70 - 130
Endosulfan sulfate	<0.097		1.94	2.10		ug/L		108	70 - 130
Endrin	<0.0097		1.94	1.99		ug/L		102	70 - 130
Endrin aldehyde	<0.097		1.94	1.91		ug/L		98	60 - 130
EPTC	<0.097		1.94	2.15		ug/L		111	70 - 130
Fluoranthene	<0.097		1.94	2.19		ug/L		113	70 - 130
Fluorene	<0.048		1.94	1.83		ug/L		94	70 - 130
gamma-Chlordane	<0.048		1.94	1.91		ug/L		98	70 - 130
Heptachlor	<0.0097		1.94	2.13		ug/L		110	70 - 130
Heptachlor epoxide (isomer B)	<0.0097	^3+	1.94	1.83		ug/L		94	70 - 130
Hexachlorobenzene	<0.048		1.94	2.03		ug/L		105	70 - 130
Hexachlorocyclopentadiene	<0.048		1.94	2.07		ug/L		107	70 - 130
Indeno[1,2,3-cd]pyrene	<0.048		1.94	2.14		ug/L		110	70 - 130
Isophorone	<0.097		1.94	2.11		ug/L		109	70 - 130
Lindane	<0.0097		1.94	2.14		ug/L		110	70 - 130
Malathion	<0.097		1.94	2.11		ug/L		109	70 - 130
Methoxychlor	<0.048		1.94	2.20		ug/L		113	70 - 130
Metolachlor	<0.048		1.94	1.89		ug/L		97	70 - 130
Molinate	<0.097		1.94	2.19		ug/L		113	70 - 130

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

Lab Sample ID: 380-180061-1 MS
Matrix: Drinking Water
Analysis Batch: 184792

Client Sample ID: HALAWA SHAFT (331-241-TP401)
Prep Type: Total/NA
Prep Batch: 184576

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Naphthalene	<0.097		1.94	2.00		ug/L		103	70 - 130
Parathion	<0.097		1.94	2.37		ug/L		122	70 - 130
Pendimethalin (Penoxaline)	<0.097		1.94	2.13		ug/L		109	70 - 130
Phenanthrene	<0.039		1.94	1.95		ug/L		100	70 - 130
Propachlor	<0.048		1.94	2.28		ug/L		117	70 - 130
Pyrene	<0.048		1.94	2.20		ug/L		113	70 - 130
Simazine	<0.048		1.94	2.01		ug/L		103	70 - 130
Terbacil	<0.097		1.94	2.23		ug/L		115	70 - 130
Terbuthylazine	<0.097		1.94	2.21		ug/L		114	70 - 130
Thiobencarb	<0.097		1.94	2.13		ug/L		110	70 - 130
trans-Nonachlor	<0.048		1.94	1.74		ug/L		90	70 - 130
Trifluralin	<0.097		1.94	2.10		ug/L		108	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Nitro-m-xylene	*102*		*70 - 130*
Perylene-d12	*96*		*70 - 130*
Triphenylphosphate	*108*		*70 - 130*

Lab Sample ID: 380-180065-I-1-A DU
Matrix: Water
Analysis Batch: 184792

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 184576

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
2,6-Dinitrotoluene	<0.098		<0.097		ug/L		NC	20
2-Methylnaphthalene	<0.098		<0.097		ug/L		NC	20
4,4'-DDD	<0.098		<0.097		ug/L		NC	20
4,4'-DDE	<0.098		<0.097		ug/L		NC	20
4,4'-DDT	<0.098		<0.097		ug/L		NC	20
Acenaphthene	<0.098		<0.097		ug/L		NC	20
Acenaphthylene	<0.098		<0.097		ug/L		NC	20
Acetochlor	<0.098		<0.097		ug/L		NC	20
Alachlor	<0.049		<0.048		ug/L		NC	20
alpha-BHC	<0.098		<0.097		ug/L		NC	20
alpha-Chlordane	<0.049		<0.048		ug/L		NC	20
Anthracene	<0.020		<0.019		ug/L		NC	20
Atrazine	<0.049		<0.048		ug/L		NC	20
Benz(a)anthracene	<0.049		<0.048		ug/L		NC	20
Benzo[a]pyrene	<0.020		<0.019		ug/L		NC	20
Benzo[b]fluoranthene	<0.020		<0.019		ug/L		NC	20
Benzo[g,h,i]perylene	<0.049		<0.048		ug/L		NC	20
Benzo[k]fluoranthene	<0.020		<0.019		ug/L		NC	20
beta-BHC	<0.098		<0.097		ug/L		NC	20
Bis(2-ethylhexyl) phthalate	<0.59		<0.58		ug/L		NC	20

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

Lab Sample ID: 380-180065-I-1-A DU
Matrix: Water
Analysis Batch: 184792

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 184576

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Bromacil	<0.098		<0.097		ug/L		NC	20
Butachlor	<0.049		<0.048		ug/L		NC	20
Butylbenzylphthalate	<0.49		<0.48		ug/L		NC	20
Chlorobenzilate	<0.098		<0.097		ug/L		NC	20
Chloroneb	<0.098		<0.097		ug/L		NC	20
Chlorothalonil (Draconil, Bravo)	<0.098		<0.097		ug/L		NC	20
Chlorpyrifos	<0.049		<0.048		ug/L		NC	20
Chrysene	<0.020		<0.019		ug/L		NC	20
delta-BHC	<0.098		<0.097		ug/L		NC	20
Di(2-ethylhexyl)adipate	<0.59		<0.58		ug/L		NC	20
Dibenz(a,h)anthracene	<0.049		<0.048		ug/L		NC	20
Diclorvos (DDVP)	<0.049		<0.048		ug/L		NC	20
Dieldrin	0.026		0.0217		ug/L		17	20
Diethylphthalate	<0.49		<0.48		ug/L		NC	20
Dimethylphthalate	<0.49		<0.48		ug/L		NC	20
Di-n-butyl phthalate	<0.98		<0.97		ug/L		NC	20
Di-n-octyl phthalate	<0.098		<0.097		ug/L		NC	20
Endosulfan I (Alpha)	<0.098		<0.097		ug/L		NC	20
Endosulfan II (Beta)	<0.098		<0.097		ug/L		NC	20
Endosulfan sulfate	<0.098		<0.097		ug/L		NC	20
Endrin	<0.0098		<0.0097		ug/L		NC	20
Endrin aldehyde	<0.098		<0.097		ug/L		NC	20
EPTC	<0.098		<0.097		ug/L		NC	20
Fluoranthene	<0.098		<0.097		ug/L		NC	20
Fluorene	<0.049		<0.048		ug/L		NC	20
gamma-Chlordane	<0.049		<0.048		ug/L		NC	20
Heptachlor	<0.0098		<0.0097		ug/L		NC	20
Heptachlor epoxide (isomer B)	<0.0098	^3+	<0.0097		ug/L		NC	20
Hexachlorobenzene	<0.049		<0.048		ug/L		NC	20
Hexachlorocyclopentadiene	<0.049		<0.048		ug/L		NC	20
Indeno[1,2,3-cd]pyrene	<0.049		<0.048		ug/L		NC	20
Isophorone	<0.098		<0.097		ug/L		NC	20
Lindane	<0.0098		<0.0097		ug/L		NC	20
Malathion	<0.098		<0.097		ug/L		NC	20
Methoxychlor	<0.049		<0.048		ug/L		NC	20
Metolachlor	<0.049		<0.048		ug/L		NC	20
Molinate	<0.098		<0.097		ug/L		NC	20
Naphthalene	<0.098		<0.097		ug/L		NC	20
Parathion	<0.098		<0.097		ug/L		NC	20
Pendimethalin (Penoxaline)	<0.098		<0.097		ug/L		NC	20
Phenanthrene	<0.039		<0.039		ug/L		NC	20
Propachlor	<0.049		<0.048		ug/L		NC	20
Pyrene	<0.049		<0.048		ug/L		NC	20
Simazine	<0.049		<0.048		ug/L		NC	20
Terbacil	<0.098		<0.097		ug/L		NC	20
Terbuthylazine	<0.098		<0.097		ug/L		NC	20
Thiobencarb	<0.098		<0.097		ug/L		NC	20
Total Permethrin (mixed isomers)	<0.20		<0.19		ug/L		NC	20
trans-Nonachlor	<0.049		<0.048		ug/L		NC	20

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

Lab Sample ID: 380-180065-I-1-A DU
Matrix: Water
Analysis Batch: 184792

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 184576

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Trifluralin	<0.098			<0.097		ug/L				NC	20

Surrogate	*DU %Recovery*	*DU Qualifier*	*Limits*
2-Nitro-m-xylene	*103*		*70 - 130*
Perylene-d12	*88*		*70 - 130*
Triphenylphosphate	*104*		*70 - 130*

Lab Sample ID: MRL 380-184641/21-A
Matrix: Water
Analysis Batch: 184796

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 184641

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
1-Methylnaphthalene			0.0984	0.118		ug/L		120	50 - 150		
2,4'-DDD			0.0984	0.0825	J	ug/L		84	50 - 150		
2,4'-DDE			0.0984	0.102		ug/L		104	50 - 150		
2,4'-DDT			0.0984	0.102		ug/L		104	50 - 150		
2,4-Dinitrotoluene			0.0984	0.105		ug/L		106	50 - 150		
2,6-Dinitrotoluene			0.0984	0.126		ug/L		128	50 - 150		
2-Methylnaphthalene			0.0984	0.113		ug/L		114	50 - 150		
4,4'-DDD			0.0984	0.0908	J	ug/L		92	50 - 150		
4,4'-DDE			0.0984	0.112		ug/L		114	50 - 150		
4,4'-DDT			0.0984	0.105		ug/L		107	50 - 150		
Acenaphthene			0.0984	0.0975	J	ug/L		99	50 - 150		
Acenaphthylene			0.0984	0.0947	J	ug/L		96	50 - 150		
Acetochlor			0.0984	0.122		ug/L		124	50 - 150		
Alachlor			0.0492	0.0633		ug/L		129	50 - 150		
alpha-BHC			0.0984	0.101		ug/L		103	50 - 150		
alpha-Chlordane			0.0246	<0.029		ug/L		94	50 - 150		
Anthracene			0.0197	0.0208		ug/L		106	50 - 150		
Atrazine			0.0492	0.0489	J	ug/L		99	50 - 150		
Benz(a)anthracene			0.0492	0.0525		ug/L		107	50 - 150		
Benzo[a]pyrene			0.0197	0.0195	J	ug/L		99	50 - 150		
Benzo[b]fluoranthene			0.0197	0.0198	J	ug/L		101	50 - 150		
Benzo[g,h,i]perylene			0.0492	0.0520		ug/L		106	50 - 150		
Benzo[k]fluoranthene			0.0197	0.0187	J	ug/L		95	50 - 150		
beta-BHC			0.0984	0.104		ug/L		105	50 - 150		
Bis(2-ethylhexyl) phthalate			0.591	0.574	J	ug/L		97	50 - 150		
Bromacil			0.0984	0.0978	J	ug/L		99	50 - 150		
Butachlor			0.0492	0.0705		ug/L		143	50 - 150		
Butylbenzylphthalate			0.492	0.570		ug/L		116	50 - 150		
Chlorobenzilate			0.0984	0.117		ug/L		119	50 - 150		
Chloroneb			0.0984	0.0918	J	ug/L		93	50 - 150		
Chlorothalonil (Draconil, Bravo)			0.0984	0.103		ug/L		105	50 - 150		
Chlorpyrifos			0.0492	0.0572		ug/L		116	50 - 150		
Chrysene			0.0197	0.0171	J	ug/L		87	50 - 150		
delta-BHC			0.0984	0.0964	J	ug/L		98	50 - 150		
Di(2-ethylhexyl)adipate			0.591	0.657		ug/L		111	50 - 150		
Dibenz(a,h)anthracene			0.0492	0.0541		ug/L		110	50 - 150		

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

Lab Sample ID: MRL 380-184641/21-A
Matrix: Water
Analysis Batch: 184796

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 184641

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Diclorvos (DDVP)	0.0492	0.0563		ug/L		114	50 - 150
Dieldrin	0.00984	0.00930	J	ug/L		94	50 - 150
Diethylphthalate	0.492	0.554		ug/L		113	50 - 150
Dimethylphthalate	0.492	0.525		ug/L		107	50 - 150
Di-n-butyl phthalate	0.492	0.544	J	ug/L		111	49 - 243
Di-n-octyl phthalate	0.0984	0.104		ug/L		106	50 - 150
Endosulfan I (Alpha)	0.0984	0.0799	J	ug/L		81	50 - 150
Endosulfan II (Beta)	0.0984	0.0952	J	ug/L		97	50 - 150
Endosulfan sulfate	0.0984	0.109		ug/L		111	50 - 150
Endrin	0.00984	0.00808	J	ug/L		82	50 - 150
Endrin aldehyde	0.0984	0.109		ug/L		111	50 - 150
EPTC	0.0984	0.110		ug/L		111	50 - 150
Fluoranthene	0.0984	0.0987		ug/L		100	50 - 150
Fluorene	0.0492	0.0551		ug/L		112	50 - 150
gamma-Chlordane	0.0246	0.0236	J	ug/L		96	50 - 150
Heptachlor	0.00984	0.0143		ug/L		145	50 - 150
Heptachlor epoxide (isomer B)	0.00984	0.0153	^3+	ug/L		156	50 - 150
Hexachlorobenzene	0.0492	0.0557		ug/L		113	50 - 150
Hexachlorocyclopentadiene	0.0492	0.0451	J	ug/L		92	50 - 150
Indeno[1,2,3-cd]pyrene	0.0492	0.0538		ug/L		109	50 - 150
Isophorone	0.0984	0.103		ug/L		105	50 - 150
Lindane	0.00984	0.00991		ug/L		101	50 - 150
Malathion	0.0984	0.107		ug/L		109	50 - 150
Methoxychlor	0.0492	0.0680		ug/L		138	50 - 150
Metolachlor	0.0492	0.0633		ug/L		129	50 - 150
Molinate	0.0984	0.113		ug/L		115	50 - 150
Naphthalene	0.0984	0.111		ug/L		113	50 - 150
Parathion	0.0984	0.0983		ug/L		100	50 - 150
Pendimethalin (Penoxaline)	0.0984	0.0941	J	ug/L		96	50 - 150
Phenanthrene	0.0394	0.0429		ug/L		109	50 - 150
Propachlor	0.0492	0.0679		ug/L		138	50 - 150
Pyrene	0.0492	0.0575		ug/L		117	50 - 150
Simazine	0.0492	0.0422	J	ug/L		86	50 - 150
Terbacil	0.0984	0.102		ug/L		104	50 - 150
Terbuthylazine	0.0984	0.105		ug/L		107	50 - 150
Thiobencarb	0.0984	0.101		ug/L		103	50 - 150
trans-Nonachlor	0.0246	<0.026		ug/L		76	50 - 150
Trifluralin	0.0984	0.115		ug/L		117	50 - 150

Surrogate	*MRL %Recovery*	*MRL Qualifier*	*Limits*
2-Nitro-m-xylene	*95*		*70 - 130*
Perylene-d12	*93*		*70 - 130*
Triphenylphosphate	*94*		*70 - 130*

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

Lab Sample ID: MB 570-649162/1-A
Matrix: Water
Analysis Batch: 657353

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 649162

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	10/31/25 08:17	11/17/25 14:51	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	81		33 - 139	10/31/25 08:17	11/17/25 14:51	1
2-Fluorobiphenyl (Surr)	84		33 - 126	10/31/25 08:17	11/17/25 14:51	1
2-Fluorophenol (Surr)	53		12 - 120	10/31/25 08:17	11/17/25 14:51	1
Nitrobenzene-d5 (Surr)	87		36 - 120	10/31/25 08:17	11/17/25 14:51	1
Phenol-d6 (Surr)	32		10 - 120	10/31/25 08:17	11/17/25 14:51	1
p-Terphenyl-d14 (Surr)	82		47 - 131	10/31/25 08:17	11/17/25 14:51	1

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

Lab Sample ID: MB 570-649162/1-A
Matrix: Water
Analysis Batch: 656023

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 649162

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.20		0.20		ug/L		10/31/25 08:17	11/13/25 23:45	1
2-Methylnaphthalene	<0.20		0.20		ug/L		10/31/25 08:17	11/13/25 23:45	1
Acenaphthene	<0.20		0.20		ug/L		10/31/25 08:17	11/13/25 23:45	1
Acenaphthylene	<0.20		0.20		ug/L		10/31/25 08:17	11/13/25 23:45	1
Anthracene	<0.20		0.20		ug/L		10/31/25 08:17	11/13/25 23:45	1
Benzo[a]anthracene	<0.20		0.20		ug/L		10/31/25 08:17	11/13/25 23:45	1
Benzo[a]pyrene	<0.20		0.20		ug/L		10/31/25 08:17	11/13/25 23:45	1
Benzo[b]fluoranthene	<0.20		0.20		ug/L		10/31/25 08:17	11/13/25 23:45	1
Benzo[g,h,i]perylene	<0.20		0.20		ug/L		10/31/25 08:17	11/13/25 23:45	1
Benzo[k]fluoranthene	<0.20		0.20		ug/L		10/31/25 08:17	11/13/25 23:45	1
Chrysene	<0.20		0.20		ug/L		10/31/25 08:17	11/13/25 23:45	1
Dibenz(a,h)anthracene	<0.20		0.20		ug/L		10/31/25 08:17	11/13/25 23:45	1
Fluoranthene	<0.20		0.20		ug/L		10/31/25 08:17	11/13/25 23:45	1
Fluorene	<0.20		0.20		ug/L		10/31/25 08:17	11/13/25 23:45	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20		ug/L		10/31/25 08:17	11/13/25 23:45	1
Naphthalene	<0.20		0.20		ug/L		10/31/25 08:17	11/13/25 23:45	1
Phenanthrene	<0.20		0.20		ug/L		10/31/25 08:17	11/13/25 23:45	1
Pyrene	<0.20		0.20		ug/L		10/31/25 08:17	11/13/25 23:45	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	57		28 - 127	10/31/25 08:17	11/13/25 23:45	1
2-Fluorobiphenyl (Surr)	56		31 - 120	10/31/25 08:17	11/13/25 23:45	1
2-Fluorophenol (Surr)	36		17 - 120	10/31/25 08:17	11/13/25 23:45	1
Nitrobenzene-d5 (Surr)	58		27 - 120	10/31/25 08:17	11/13/25 23:45	1
Phenol-d6 (Surr)	25		10 - 120	10/31/25 08:17	11/13/25 23:45	1
p-Terphenyl-d14 (Surr)	67		45 - 120	10/31/25 08:17	11/13/25 23:45	1

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

Lab Sample ID: LCS 570-649162/2-A
Matrix: Water
Analysis Batch: 656023

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 649162

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1-Methylnaphthalene			20.0	13.3		ug/L		66	47 - 120		
2-Methylnaphthalene			20.0	13.2		ug/L		66	43 - 120		
Acenaphthene			20.0	13.9		ug/L		70	60 - 132		
Acenaphthylene			20.0	13.6		ug/L		68	54 - 126		
Anthracene			20.0	13.7		ug/L		69	43 - 120		
Benzo[a]anthracene			20.0	13.9		ug/L		70	42 - 133		
Benzo[a]pyrene			20.0	12.3		ug/L		61	32 - 148		
Benzo[b]fluoranthene			20.0	13.3		ug/L		67	42 - 140		
Benzo[g,h,i]perylene			20.0	13.2		ug/L		66	1 - 195		
Benzo[k]fluoranthene			20.0	13.1		ug/L		65	25 - 146		
Chrysene			20.0	14.3		ug/L		72	44 - 140		
Dibenz(a,h)anthracene			20.0	13.8		ug/L		69	1 - 200		
Fluoranthene			20.0	14.6		ug/L		73	43 - 121		
Fluorene			20.0	14.1		ug/L		70	70 - 120		
Indeno[1,2,3-cd]pyrene			20.0	13.1		ug/L		65	1 - 151		
Naphthalene			20.0	12.2		ug/L		61	36 - 120		
Phenanthrene			20.0	14.1		ug/L		70	65 - 120		
Pyrene			20.0	15.7		ug/L		79	70 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*72*		*28 - 127*
2-Fluorobiphenyl (Surr)	*70*		*31 - 120*
2-Fluorophenol (Surr)	*51*		*17 - 120*
Nitrobenzene-d5 (Surr)	*64*		*27 - 120*
Phenol-d6 (Surr)	*33*		*10 - 120*
p-Terphenyl-d14 (Surr)	*77*		*45 - 120*

Lab Sample ID: LCSD 570-649162/3-A
Matrix: Water
Analysis Batch: 656023

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 649162

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene			20.0	11.9		ug/L			-		
2-Methylnaphthalene			20.0	11.8		ug/L			-		
Acenaphthene			20.0	12.5		ug/L			-		
Acenaphthylene			20.0	12.5		ug/L			-		
Anthracene			20.0	12.8		ug/L			-		
Benzo[a]anthracene			20.0	13.0		ug/L			-		
Benzo[a]pyrene			20.0	11.8		ug/L			-		
Benzo[b]fluoranthene			20.0	12.4		ug/L			-		
Benzo[g,h,i]perylene			20.0	12.3		ug/L			-		
Benzo[k]fluoranthene			20.0	12.7		ug/L			-		
Chrysene			20.0	13.4		ug/L			-		
Dibenz(a,h)anthracene			20.0	13.0		ug/L			-		
Fluoranthene			20.0	13.2		ug/L			-		
Fluorene			20.0	12.9		ug/L			-		
Indeno[1,2,3-cd]pyrene			20.0	12.2		ug/L			-		
Naphthalene			20.0	10.9		ug/L			-		

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

Lab Sample ID: LCSD 570-649162/3-A
Matrix: Water
Analysis Batch: 656023

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 649162

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenanthrene			20.0	12.8		ug/L			-		
Pyrene			20.0	14.6		ug/L			-		

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)			
2-Fluorobiphenyl (Surr)			
2-Fluorophenol (Surr)			
Nitrobenzene-d5 (Surr)			
Phenol-d6 (Surr)			
p-Terphenyl-d14 (Surr)			

Lab Sample ID: 380-179754-A-1-A MS
Matrix: Water
Analysis Batch: 656023

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 649162

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
1-Methylnaphthalene	<0.19		19.3	13.4		ug/L		70	36 - 120		
2-Methylnaphthalene	<0.19		19.3	13.2		ug/L		68	32 - 124		
Acenaphthene	<0.19		19.3	14.5		ug/L		75	47 - 145		
Acenaphthylene	<0.19		19.3	14.6		ug/L		75	33 - 145		
Anthracene	<0.19		19.3	14.4		ug/L		74	27 - 133		
Benzo[a]anthracene	<0.19		19.3	14.7		ug/L		76	33 - 143		
Benzo[a]pyrene	<0.19		19.3	13.6		ug/L		71	17 - 163		
Benzo[b]fluoranthene	<0.19		19.3	14.1		ug/L		73	24 - 159		
Benzo[g,h,i]perylene	<0.19		19.3	14.2		ug/L		73	1 - 219		
Benzo[k]fluoranthene	<0.19		19.3	14.2		ug/L		74	11 - 162		
Chrysene	<0.19		19.3	15.1		ug/L		78	17 - 168		
Dibenz(a,h)anthracene	<0.19		19.3	14.9		ug/L		77	1 - 227		
Fluoranthene	<0.19		19.3	14.8		ug/L		77	26 - 137		
Fluorene	<0.19		19.3	14.6		ug/L		76	59 - 121		
Indeno[1,2,3-cd]pyrene	<0.19		19.3	14.1		ug/L		73	1 - 171		
Naphthalene	<0.19		19.3	12.4		ug/L		64	21 - 133		
Phenanthrene	<0.19		19.3	14.5		ug/L		75	54 - 120		
Pyrene	<0.19		19.3	16.7		ug/L		86	52 - 120		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*75*		*28 - 127*
2-Fluorobiphenyl (Surr)	*74*		*31 - 120*
2-Fluorophenol (Surr)	*53*		*17 - 120*
Nitrobenzene-d5 (Surr)	*65*		*27 - 120*
Phenol-d6 (Surr)	*35*		*10 - 120*
p-Terphenyl-d14 (Surr)	*82*		*45 - 120*

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

Lab Sample ID: 380-179754-A-1-B MSD
Matrix: Water
Analysis Batch: 656023

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 649162

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	<0.19		19.3	11.9		ug/L		62	36 - 120	12	30
2-Methylnaphthalene	<0.19		19.3	11.8		ug/L		61	32 - 124	11	30
Acenaphthene	<0.19		19.3	12.5		ug/L		64	47 - 145	15	48
Acenaphthylene	<0.19		19.3	12.4		ug/L		64	33 - 145	16	74
Anthracene	<0.19		19.3	12.3		ug/L		64	27 - 133	15	66
Benzo[a]anthracene	<0.19		19.3	12.6		ug/L		65	33 - 143	16	53
Benzo[a]pyrene	<0.19		19.3	11.4		ug/L		59	17 - 163	17	72
Benzo[b]fluoranthene	<0.19		19.3	11.9		ug/L		62	24 - 159	17	71
Benzo[g,h,i]perylene	<0.19		19.3	11.8		ug/L		61	1 - 219	19	97
Benzo[k]fluoranthene	<0.19		19.3	12.1		ug/L		62	11 - 162	16	63
Chrysene	<0.19		19.3	13.0		ug/L		67	17 - 168	15	87
Dibenz(a,h)anthracene	<0.19		19.3	12.3		ug/L		64	1 - 227	19	126
Fluoranthene	<0.19		19.3	12.9		ug/L		67	26 - 137	14	66
Fluorene	<0.19		19.3	12.7		ug/L		66	59 - 121	14	38
Indeno[1,2,3-cd]pyrene	<0.19		19.3	11.6		ug/L		60	1 - 171	19	99
Naphthalene	<0.19		19.3	10.9		ug/L		56	21 - 133	12	65
Phenanthrene	<0.19		19.3	12.5		ug/L		65	54 - 120	15	39
Pyrene	<0.19		19.3	14.1		ug/L		73	52 - 120	17	49

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*67*		*28 - 127*
2-Fluorobiphenyl (Surr)	*64*		*31 - 120*
2-Fluorophenol (Surr)	*47*		*17 - 120*
Nitrobenzene-d5 (Surr)	*59*		*27 - 120*
Phenol-d6 (Surr)	*30*		*10 - 120*
p-Terphenyl-d14 (Surr)	*73*		*45 - 120*

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

Lab Sample ID: MB 570-653207/6
Matrix: Water
Analysis Batch: 653207

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			11/08/25 14:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*38 - 134*		*11/08/25 14:30*	*1*

Lab Sample ID: LCS 570-653207/4
Matrix: Water
Analysis Batch: 653207

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	388		ug/L		97	78 - 120		

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

Lab Sample ID: LCS 570-653207/4
Matrix: Water
Analysis Batch: 653207

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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		38 - 134

Lab Sample ID: LCSD 570-653207/5
Matrix: Water
Analysis Batch: 653207

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	392		ug/L		98	78 - 120	1	10

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		38 - 134

Lab Sample ID: MRL 570-653207/3
Matrix: Water
Analysis Batch: 653207

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	12.8		ug/L		128	50 - 150		

Surrogate	MRL %Recovery	MRL Qualifier	Limits
4-Bromofluorobenzene (Surr)	91		38 - 134

Lab Sample ID: 380-181052-C-1 MS
Matrix: Water
Analysis Batch: 653207

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	394		ug/L		99	68 - 122		

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		38 - 134

Lab Sample ID: 380-181052-C-1 MSD
Matrix: Water
Analysis Batch: 653207

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	376		ug/L		94	68 - 122	5	18

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

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

Lab Sample ID: MB 570-649949/1-A
Matrix: Water
Analysis Batch: 654466

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 649949

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<25		25		ug/L		11/02/25 11:31	11/11/25 13:01	1
Motor Oil Range Organics [C24-C36]	<25		25		ug/L		11/02/25 11:31	11/11/25 13:01	1
C8-C18	<25		25		ug/L		11/02/25 11:31	11/11/25 13:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*105*		*60 - 130*	*11/02/25 11:31*	*11/11/25 13:01*	*1*

Lab Sample ID: LCS 570-649949/2-A
Matrix: Water
Analysis Batch: 654466

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 649949

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
C10-C28			2000	2120		ug/L		106	56 - 127		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-Octacosane (Surr)	*123*		*60 - 130*

Lab Sample ID: LCSD 570-649949/3-A
Matrix: Water
Analysis Batch: 654466

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 649949

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28			2000	1750		ug/L		87	56 - 127	19	23

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
n-Octacosane (Surr)	*115*		*60 - 130*

Lab Sample ID: MRL 570-649949/4-A
Matrix: Water
Analysis Batch: 654466

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 649949

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
C10-C28			0.0200	0.0314	^3+	mg/L		157	50 - 150		

Surrogate	*MRL %Recovery*	*MRL Qualifier*	*Limits*
n-Octacosane (Surr)	*127*		*60 - 130*

Lab Sample ID: 380-179754-C-1-A MS
Matrix: Water
Analysis Batch: 654466

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 649949

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
C10-C28	<25	^3+	2050	2100		ug/L		102	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
n-Octacosane (Surr)	*125*		*60 - 130*

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

Lab Sample ID: 380-179754-C-1-B MSD
Matrix: Water
Analysis Batch: 654466

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 649949

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28	<25	^3+	2120	2270		ug/L		107	70 - 130	8	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
n-Octacosane (Surr)	*125*		*60 - 130*

GC/MS Semi VOA

Prep Batch: 184576

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-180061-1	HALAWA SHAFT (331-241-TP401)	Total/NA	Drinking Water	525.2	
MB 380-184576/20-A	Method Blank	Total/NA	Water	525.2	
LCS 380-184576/22-A	Lab Control Sample	Total/NA	Water	525.2	
380-180061-1 MS	HALAWA SHAFT (331-241-TP401)	Total/NA	Drinking Water	525.2	
380-180065-I-1-A DU	Duplicate	Total/NA	Water	525.2	

Prep Batch: 184641

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MRL 380-184641/21-A	Lab Control Sample	Total/NA	Water	525.2	

Analysis Batch: 184792

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-180061-1	HALAWA SHAFT (331-241-TP401)	Total/NA	Drinking Water	525.2	184576
MB 380-184576/20-A	Method Blank	Total/NA	Water	525.2	184576
LCS 380-184576/22-A	Lab Control Sample	Total/NA	Water	525.2	184576
380-180061-1 MS	HALAWA SHAFT (331-241-TP401)	Total/NA	Drinking Water	525.2	184576
380-180065-I-1-A DU	Duplicate	Total/NA	Water	525.2	184576

Analysis Batch: 184796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MRL 380-184641/21-A	Lab Control Sample	Total/NA	Water	525.2	184641

Prep Batch: 649162

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-180061-1	HALAWA SHAFT (331-241-TP401)	Total/NA	Drinking Water	625.1	
MB 570-649162/1-A	Method Blank	Total/NA	Water	625.1	
LCS 570-649162/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 570-649162/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	
380-179754-A-1-A MS	Matrix Spike	Total/NA	Water	625.1	
380-179754-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	625.1	

Analysis Batch: 656023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-180061-1	HALAWA SHAFT (331-241-TP401)	Total/NA	Drinking Water	625.1 SIM	649162
MB 570-649162/1-A	Method Blank	Total/NA	Water	625.1 SIM	649162
LCS 570-649162/2-A	Lab Control Sample	Total/NA	Water	625.1 SIM	649162
LCSD 570-649162/3-A	Lab Control Sample Dup	Total/NA	Water	625.1 SIM	649162
380-179754-A-1-A MS	Matrix Spike	Total/NA	Water	625.1 SIM	649162
380-179754-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	625.1 SIM	649162

Analysis Batch: 657353

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-180061-1	HALAWA SHAFT (331-241-TP401)	Total/NA	Drinking Water	625.1	649162
MB 570-649162/1-A	Method Blank	Total/NA	Water	625.1	649162

GC VOA

Analysis Batch: 653207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-180061-1	HALAWA SHAFT (331-241-TP401)	Total/NA	Drinking Water	8015B GRO LL	
380-180061-2	TB: HALAWA SHAFT (331-241-TP401)	Total/NA	Water	8015B GRO LL	

GC VOA (Continued)

Analysis Batch: 653207 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-653207/6	Method Blank	Total/NA	Water	8015B GRO LL	
LCS 570-653207/4	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-653207/5	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	
MRL 570-653207/3	Lab Control Sample	Total/NA	Water	8015B GRO LL	
380-181052-C-1 MS	Matrix Spike	Total/NA	Water	8015B GRO LL	
380-181052-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8015B GRO LL	

GC Semi VOA

Prep Batch: 649949

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-180061-1	HALAWA SHAFT (331-241-TP401)	Total/NA	Drinking Water	3510C	
MB 570-649949/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-649949/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-649949/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-649949/4-A	Lab Control Sample	Total/NA	Water	3510C	
380-179754-C-1-A MS	Matrix Spike	Total/NA	Water	3510C	
380-179754-C-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

Analysis Batch: 654466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-180061-1	HALAWA SHAFT (331-241-TP401)	Total/NA	Drinking Water	8015B	649949
MB 570-649949/1-A	Method Blank	Total/NA	Water	8015B	649949
LCS 570-649949/2-A	Lab Control Sample	Total/NA	Water	8015B	649949
LCSD 570-649949/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	649949
MRL 570-649949/4-A	Lab Control Sample	Total/NA	Water	8015B	649949
380-179754-C-1-A MS	Matrix Spike	Total/NA	Water	8015B	649949
380-179754-C-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	8015B	649949

Lab Chronicle

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

Job ID: 380-180061-1
SDG: Weekly: Halawa Shaft Viewing Pool

Client Sample ID: HALAWA SHAFT (331-241-TP401)

Lab Sample ID: 380-180061-1

Date Collected: 10/28/25 09:30
Matrix: Drinking Water
Date Received: 10/30/25 10:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			184576	KRD3	EA POM	11/05/25 10:31
Total/NA	Analysis	525.2		1	184792	UPAC	EA POM	11/06/25 13:02
Total/NA	Prep	625.1			649162	S4EA	EET CAL 4	10/31/25 08:18
Total/NA	Analysis	625.1		1	657353	PQS1	EET CAL 4	11/17/25 16:52
Total/NA	Prep	625.1			649162	S4EA	EET CAL 4	10/31/25 08:18
Total/NA	Analysis	625.1 SIM		1	656023	J7WE	EET CAL 4	11/14/25 04:59
Total/NA	Analysis	8015B GRO LL		1	653207	YD9V	EET CAL 4	11/08/25 17:15
Total/NA	Prep	3510C			649949	TVD6	EET CAL 4	11/02/25 11:32
Total/NA	Analysis	8015B		1	654466	H6FE	EET CAL 4	11/11/25 15:53

Client Sample ID: TB: HALAWA SHAFT (331-241-TP401)

Lab Sample ID: 380-180061-2

Date Collected: 10/28/25 09:30
Matrix: Water
Date Received: 10/30/25 10:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	653207	YD9V	EET CAL 4	11/08/25 16:09

Laboratory References:

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

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

Accreditation/Certification Summary

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

Job ID: 380-180061-1
SDG: Weekly: Halawa Shaft Viewing Pool

Laboratory: Eurofins Eaton Analytical Pomona

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

Authority	Program	Identification Number	Expiration Date
Hawaii	State	CA00006	01-31-26

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
525.2	525.2	Drinking Water	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	03-02-26
Arizona	State	AZ0830	11-17-26
California	Los Angeles County Sanitation Districts	9257304	07-31-26
California	SCAQMD LAP	17LA0919	11-30-25

Accreditation/Certification Summary

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

Job ID: 380-180061-1
SDG: Weekly: Halawa Shaft Viewing Pool

Laboratory: Eurofins Calscience (Continued)

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

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

Method Summary

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

Job ID: 380-180061-1
SDG: Weekly: Halawa Shaft Viewing Pool

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 Eaton Analytical Pomona, 941 Corporate Center Drive, Pomona, CA 91768-2642, TEL (626)386-1100
EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Sample Summary

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

Job ID: 380-180061-1
SDG: Weekly: Halawa Shaft Viewing Pool

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	PWSID Number
380-180061-1	HALAWA SHAFT (331-241-TP401)	Drinking Water	10/28/25 09:30	10/30/25 10:36	HI0000331
380-180061-2	TB: HALAWA SHAFT (331-241-TP401)	Water	10/28/25 09:30	10/30/25 10:36	

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: Jason Rakofsky	Lab PM: Arada, Rachelle	Carrier Tracking No(s):	COC No: 380-28005-2757 1
Client Contact: Mr Kirk Iwamoto	Phone: +1 808 748 5840	E-Mail: Rachelle.Arada@et.eurofinsus.com	State of Origin:	Page: Page 1 of 2
Company: City & County of Honolulu	PWSID:			Job #
Address: 630 South Beretania Street Chemistry Lab	Due Date Requested:			
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

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

Sample Identification	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)	625.1, 625.1_SIM	8015B_GRO_LL - (MOD) GRO	8015B_DRO_LL_C9 - HNL Ranges C10-C24/C24-C36/C8-C18	525.2_PREC - (MOD) 525plus Plus TICs	537.1_DW_PREC - 537.1 Full List	533 - All Analytes	Total Number of containers	Special Instructions/Note:
			Preservation Code:				R	RA	Q	QA	Y	I		
Halawa Shaft Viewing Pool	28-Oct-2025	0936	G	Water			2	3	2	2				
TB: Halawa Shaft Viewing Pool	28-Oct-2025	✓	G	Water				2						

380-180061 COC

GEL-FROZEN / FEDEX
(1) 8855 9423 7940
(751N) 4.9 - 0.0 = 4.9°
(2) 8855 9423 7950
(751N) 5.7 - 0.0 = 5.7°

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: FED EX 8855 9423 7961 (3)

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
[redacted]	10/29/25 1100	HBWS		10/30/25 10:36	EEAP
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.

Cooler Temperature(s) °C and Other Remarks: (751N) 2.5 - 0.0 = 2.5° GEL-FROZEN (3)

Ver: 04/02/2024

11/17/2025

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

Chain of Custody Record

eurofins | Envir

Loc: 380
180061

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Lopez, Maria	Carrier Tracking No(s): N/A	COC No: 380-271139.1
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,		Accreditations Required (See note): State - Hawaii		Job #: 380-180061-1
Address: 2841 Dow Avenue, Suite 100, ,	Due Date Requested: 11/12/2025	Analysis Requested		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)	625.1_SIM/625_Prep(MOD) Extended PAH List	8015B_DRO_LL_CS/3510C_LL/HNL Ranges: C10-C24/C24-C36/C8-C18	8015B_GRO_LL/5030C(MOD) GRO	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
HALAWA SHAFT (331-241-TP401) (380-180061-1)	10/28/25	09:30 Hawaiian	G	Water			X	X	X	7	, MRLs are needed. Confirm any hits >RL.
TB: HALAWA SHAFT (331-241-TP401) (380-180061-2)	10/28/25	09:30 Hawaiian	G	Water					X	2	MRLs are needed.

380-180061 Chain of Custody

Note: Since laboratory accreditations are subject to change, Eurofins Eaton Analytical, 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 Eaton Analytical, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Eaton Analytical, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Eaton Analytical, 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 Urrutia	10/30/25 1530	EAP		10-30-25 1530	WP
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	10-30-25 1642	WP		10/30/25 1642	FC
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: 1.4/1.5 IR-4

11/17/2025

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-180061-1
SDG Number: Weekly: Halawa Shaft Viewing Pool

Login Number: 180061
List Number: 1
Creator: Segura, Ryan

List Source: Eurofins Eaton Analytical 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: 380-180061-1
SDG Number: Weekly: Halawa Shaft Viewing Pool

Login Number: 180061
List Number: 2
Creator: Khana, Piyush

List Source: Eurofins Calscience
List Creation: 10/30/25 06:50 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.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.5
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	