

ANALYTICAL REPORT

Eurofins Eaton Monrovia
750 Royal Oaks Drive
Suite 100
Monrovia, CA 91016
Tel: (626)386-1100

Laboratory Job ID: 380-5328-1
Client Project/Site: RED-HILL
Revision: 1

For:
City & County of Honolulu
630 South Beretania Street
Public Service Bldg. Room 308
Honolulu, Hawaii 96843

Attn: Mr. Erwin Kawata



Authorized for release by:
9/13/2022 9:06:36 PM

Debbie Frank, Project Manager
(626)386-1100
Debbie.Frank@et.eurofinsus.com

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Results relate only to the items tested and the sample(s) as received by the laboratory.

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)



Debbie Frank
Project Manager
9/13/2022 9:06:36 PM

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Definitions/Glossary

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

Job ID: 380-5328-1

Qualifiers

GC/MS Semi VOA

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

Glossary

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

Case Narrative

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

Job ID: 380-5328-1

Job ID: 380-5328-1

Laboratory: Eurofins Eaton Monrovia

Narrative

Job Narrative 380-5328-1

Comment

The detection summary report only applies to EEA data. See the attached sublabs data report for sample results. Subs Data is Non Detect.

Revision

The report being provided is a revision of the original report sent on 7/20/2022. The report (revision 1) is being revised due to: Include the Subcontractors report for the 8015 testing.

Receipt

The samples were received on 6/22/2022 10:22 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 2.7° C, 3.3° C and 4.0° C.

GC/MS Semi VOA

Method 525.2: The method blank for preparation batch 380-7062 and analytical batch 380-7327 contained Anthracene and Bis(2-ethylhexyl) phthalate above the method detection limit (MDL). Associated samples were not re-analyzed because results were less than the reporting limit (RL) OR practical quantitation limit (PQL).

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

Organic Prep

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

Subcontract Work

Methods 8015 Diesel LL (EAL) and Motor Oil, 8015 Gas (Purgeable) LL (EAL): These methods were subcontracted to EMAX Laboratories Inc. The subcontract laboratory certifications are different from that of the facility issuing the final report.

Detection Summary

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

Job ID: 380-5328-1

Client Sample ID: HALAWA SHAFT VIEWING POOL

Lab Sample ID: 380-5328-1

No Detections.

Client Sample ID: TB: HALAWA SHAFT VIEWING POOL

Lab Sample ID: 380-5328-2

No Detections.

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This Detection Summary does not include radiochemical test results.

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Client Sample Results

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

Job ID: 380-5328-1

Client Sample ID: HALAWA SHAFT VIEWING POOL

Lab Sample ID: 380-5328-1

Date Collected: 06/21/22 11:07

Matrix: Water

Date Received: 06/22/22 10:22

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND		0.097	ug/L		06/28/22 10:57	06/30/22 18:27	1
2,4'-DDE	ND		0.097	ug/L		06/28/22 10:57	06/30/22 18:27	1
2,4'-DDT	ND		0.097	ug/L		06/28/22 10:57	06/30/22 18:27	1
2,4-Dinitrotoluene	ND		0.097	ug/L		06/28/22 10:57	06/30/22 18:27	1
2,6-Dinitrotoluene	ND		0.097	ug/L		06/28/22 10:57	06/30/22 18:27	1
4,4'-DDD	ND		0.097	ug/L		06/28/22 10:57	06/30/22 18:27	1
4,4'-DDE	ND		0.097	ug/L		06/28/22 10:57	06/30/22 18:27	1
4,4'-DDT	ND		0.097	ug/L		06/28/22 10:57	06/30/22 18:27	1
Acenaphthene	ND		0.097	ug/L		06/28/22 10:57	06/30/22 18:27	1
Acenaphthylene	ND		0.097	ug/L		06/28/22 10:57	06/30/22 18:27	1
Acetochlor	ND		0.097	ug/L		06/28/22 10:57	06/30/22 18:27	1
Alachlor	ND		0.049	ug/L		06/28/22 10:57	06/30/22 18:27	1
alpha-BHC	ND		0.097	ug/L		06/28/22 10:57	06/30/22 18:27	1
alpha-Chlordane	ND		0.049	ug/L		06/28/22 10:57	06/30/22 18:27	1
Anthracene	ND		0.019	ug/L		06/28/22 10:57	06/30/22 18:27	1
Atrazine	ND		0.049	ug/L		06/28/22 10:57	06/30/22 18:27	1
Benz(a)anthracene	ND		0.049	ug/L		06/28/22 10:57	06/30/22 18:27	1
Benzo[a]pyrene	ND		0.019	ug/L		06/28/22 10:57	06/30/22 18:27	1
Benzo[b]fluoranthene	ND		0.019	ug/L		06/28/22 10:57	06/30/22 18:27	1
Benzo[g,h,i]perylene	ND		0.049	ug/L		06/28/22 10:57	06/30/22 18:27	1
Benzo[k]fluoranthene	ND		0.019	ug/L		06/28/22 10:57	06/30/22 18:27	1
beta-BHC	ND		0.097	ug/L		06/28/22 10:57	06/30/22 18:27	1
Bromacil	ND		0.097	ug/L		06/28/22 10:57	06/30/22 18:27	1
Butachlor	ND	*+	0.049	ug/L		06/28/22 10:57	06/30/22 18:27	1
Buty benzylphthalate	ND		0.49	ug/L		06/28/22 10:57	06/30/22 18:27	1
Caffeine	ND		0.049	ug/L		06/28/22 10:57	06/30/22 18:27	1
Chlorobenzilate	ND		0.097	ug/L		06/28/22 10:57	06/30/22 18:27	1
Chloroneb	ND		0.097	ug/L		06/28/22 10:57	06/30/22 18:27	1
Chlorothalonil (Draconil, Bravo)	ND		0.097	ug/L		06/28/22 10:57	06/30/22 18:27	1
Chlorpyrifos	ND		0.049	ug/L		06/28/22 10:57	06/30/22 18:27	1
Chrysene	ND		0.019	ug/L		06/28/22 10:57	06/30/22 18:27	1
delta-BHC	ND		0.097	ug/L		06/28/22 10:57	06/30/22 18:27	1
Di(2-ethylhexyl)adipate	ND	^3+	0.58	ug/L		06/28/22 10:57	06/30/22 18:27	1
Bis(2-ethylhexyl) phthalate	ND		0.58	ug/L		06/28/22 10:57	06/30/22 18:27	1
Diazinon (Qualitative)	ND		0.097	ug/L		06/28/22 10:57	06/30/22 18:27	1
D benz(a,h)anthracene	ND		0.049	ug/L		06/28/22 10:57	06/30/22 18:27	1
Diclorvos (DDVP)	ND		0.049	ug/L		06/28/22 10:57	06/30/22 18:27	1
Dieldrin	ND		0.19	ug/L		06/28/22 10:57	06/30/22 18:27	1
Diethylphthalate	ND		0.49	ug/L		06/28/22 10:57	06/30/22 18:27	1
Dimethoate	ND		0.097	ug/L		06/28/22 10:57	06/30/22 18:27	1
Dimethylphthalate	ND		0.49	ug/L		06/28/22 10:57	06/30/22 18:27	1
Di-n-butyl phthalate	ND		0.97	ug/L		06/28/22 10:57	06/30/22 18:27	1
Di-n-octyl phthalate	ND		0.097	ug/L		06/28/22 10:57	06/30/22 18:27	1
Endosulfan I (Alpha)	ND		0.097	ug/L		06/28/22 10:57	06/30/22 18:27	1
Endosulfan II (Beta)	ND		0.097	ug/L		06/28/22 10:57	06/30/22 18:27	1
Endosulfan sulfate	ND		0.097	ug/L		06/28/22 10:57	06/30/22 18:27	1
Endrin	ND		0.097	ug/L		06/28/22 10:57	06/30/22 18:27	1
Endrin aldehyde	ND		0.097	ug/L		06/28/22 10:57	06/30/22 18:27	1
EPTC	ND		0.097	ug/L		06/28/22 10:57	06/30/22 18:27	1

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Client Sample Results

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

Job ID: 380-5328-1

Client Sample ID: HALAWA SHAFT VIEWING POOL

Lab Sample ID: 380-5328-1

Date Collected: 06/21/22 11:07

Matrix: Water

Date Received: 06/22/22 10:22

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND		0.097	ug/L		06/28/22 10:57	06/30/22 18:27	1
Fluorene	ND		0.049	ug/L		06/28/22 10:57	06/30/22 18:27	1
gamma-Chlordane	ND		0.049	ug/L		06/28/22 10:57	06/30/22 18:27	1
Heptachlor	ND	^3+	0.039	ug/L		06/28/22 10:57	06/30/22 18:27	1
Heptachlor epoxide (isomer B)	ND		0.049	ug/L		06/28/22 10:57	06/30/22 18:27	1
Hexachlorobenzene	ND		0.049	ug/L		06/28/22 10:57	06/30/22 18:27	1
Hexachlorocyclopentadiene	ND		0.049	ug/L		06/28/22 10:57	06/30/22 18:27	1
Indeno[1,2,3-cd]pyrene	ND		0.049	ug/L		06/28/22 10:57	06/30/22 18:27	1
Isophorone	ND		0.49	ug/L		06/28/22 10:57	06/30/22 18:27	1
Lindane	ND		0.039	ug/L		06/28/22 10:57	06/30/22 18:27	1
Malathion	ND		0.097	ug/L		06/28/22 10:57	06/30/22 18:27	1
Methoxychlor	ND		0.097	ug/L		06/28/22 10:57	06/30/22 18:27	1
Metolachlor	ND		0.049	ug/L		06/28/22 10:57	06/30/22 18:27	1
Metr buzin	ND		0.049	ug/L		06/28/22 10:57	06/30/22 18:27	1
Molinate	ND		0.097	ug/L		06/28/22 10:57	06/30/22 18:27	1
Naphthalene	ND		0.29	ug/L		06/28/22 10:57	06/30/22 18:27	1
Parathion	ND		0.097	ug/L		06/28/22 10:57	06/30/22 18:27	1
Pendimethalin (Penoxaline)	ND		0.097	ug/L		06/28/22 10:57	06/30/22 18:27	1
Total Permethrin (mixed isomers)	ND		0.19	ug/L		06/28/22 10:57	06/30/22 18:27	1
Phenanthrene	ND		0.039	ug/L		06/28/22 10:57	06/30/22 18:27	1
Propachlor	ND		0.049	ug/L		06/28/22 10:57	06/30/22 18:27	1
Pyrene	ND		0.049	ug/L		06/28/22 10:57	06/30/22 18:27	1
Simazine	ND		0.049	ug/L		06/28/22 10:57	06/30/22 18:27	1
Terbacil	ND		0.097	ug/L		06/28/22 10:57	06/30/22 18:27	1
Terbutylazine	ND		0.097	ug/L		06/28/22 10:57	06/30/22 18:27	1
Thiobencarb	ND		0.19	ug/L		06/28/22 10:57	06/30/22 18:27	1
trans-Nonachlor	ND		0.049	ug/L		06/28/22 10:57	06/30/22 18:27	1
Trifluralin	ND		0.097	ug/L		06/28/22 10:57	06/30/22 18:27	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L				06/28/22 10:57	06/30/22 18:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	95		70 - 130	06/28/22 10:57	06/30/22 18:27	1
Triphenylphosphate	98		70 - 130	06/28/22 10:57	06/30/22 18:27	1
Perylene-d12	101		70 - 130	06/28/22 10:57	06/30/22 18:27	1

Action Limit Summary

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

Job ID: 380-5328-1

Client Sample ID: HALAWA SHAFT VIEWING POOL

Lab Sample ID: 380-5328-1

Compliance Check

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

Analyte	Result	Qualifier	Unit	EPAMCL	RL	Method	Prep Type
				Limit			
Alachlor	ND		ug/L	2	0.049	525.2	Total/NA
Atrazine	ND		ug/L	3	0.049	525.2	Total/NA
Benzo[a]pyrene	ND		ug/L	0.2	0.019	525.2	Total/NA
Di(2-ethylhexyl)adipate	ND	^3+	ug/L	400	0.58	525.2	Total/NA
Bis(2-ethylhexyl) phthalate	ND		ug/L	6	0.58	525.2	Total/NA
Endrin	ND		ug/L	2	0.097	525.2	Total/NA
Heptachlor	ND	^3+	ug/L	0.4	0.039	525.2	Total/NA
Heptachlor epoxide (isomer B)	ND		ug/L	0.2	0.049	525.2	Total/NA
Hexachlorobenzene	ND		ug/L	1	0.049	525.2	Total/NA
Hexachlorocyclopentadiene	ND		ug/L	50	0.049	525.2	Total/NA
Lindane	ND		ug/L	0.2	0.039	525.2	Total/NA
Methoxychlor	ND		ug/L	40	0.097	525.2	Total/NA
Simazine	ND		ug/L	4	0.049	525.2	Total/NA

Surrogate Summary

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

Job ID: 380-5328-1

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	2NMX	TPP	PRY
		(70-130)	(70-130)	(70-130)
380-4120-B-5-A MS	Matrix Spike	99	117	99
380-5326-H-1-A DU	Duplicate	97	106	100
380-5328-1	HALAWA SHAFT VIEWING POOL	95	98	101
LCS 380-7062/3-A	Lab Control Sample	99	112	98
LCSD 380-7062/4-A	Lab Control Sample Dup	98	111	103
MB 380-7062/1-A	Method Blank	98	104	97
MRL 380-7062/2-A	Lab Control Sample	99	111	97

Surrogate Legend

2NMX = 2-Nitro-m-xylene

TPP = Triphenylphosphate

PRY = Perylene-d12

QC Sample Results

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

Job ID: 380-5328-1

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

Lab Sample ID: MB 380-7062/1-A
Matrix: Water
Analysis Batch: 7327

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 7062

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND		0.098	ug/L		06/28/22 10:57	06/30/22 12:34	1
2,4'-DDE	ND		0.098	ug/L		06/28/22 10:57	06/30/22 12:34	1
2,4'-DDT	ND		0.098	ug/L		06/28/22 10:57	06/30/22 12:34	1
2,4-Dinitrotoluene	ND		0.098	ug/L		06/28/22 10:57	06/30/22 12:34	1
2,6-Dinitrotoluene	ND		0.098	ug/L		06/28/22 10:57	06/30/22 12:34	1
4,4'-DDD	ND		0.098	ug/L		06/28/22 10:57	06/30/22 12:34	1
4,4'-DDE	ND		0.098	ug/L		06/28/22 10:57	06/30/22 12:34	1
4,4'-DDT	ND		0.098	ug/L		06/28/22 10:57	06/30/22 12:34	1
Acenaphthene	ND		0.098	ug/L		06/28/22 10:57	06/30/22 12:34	1
Acenaphthylene	ND		0.098	ug/L		06/28/22 10:57	06/30/22 12:34	1
Acetochlor	ND		0.098	ug/L		06/28/22 10:57	06/30/22 12:34	1
Alachlor	ND		0.049	ug/L		06/28/22 10:57	06/30/22 12:34	1
alpha-BHC	ND		0.098	ug/L		06/28/22 10:57	06/30/22 12:34	1
alpha-Chlordane	ND		0.049	ug/L		06/28/22 10:57	06/30/22 12:34	1
Anthracene	ND		0.020	ug/L		06/28/22 10:57	06/30/22 12:34	1
Atrazine	ND		0.049	ug/L		06/28/22 10:57	06/30/22 12:34	1
Benz(a)anthracene	ND		0.049	ug/L		06/28/22 10:57	06/30/22 12:34	1
Benzo[a]pyrene	ND		0.020	ug/L		06/28/22 10:57	06/30/22 12:34	1
Benzo[b]fluoranthene	ND		0.020	ug/L		06/28/22 10:57	06/30/22 12:34	1
Benzo[g,h,i]perylene	ND		0.049	ug/L		06/28/22 10:57	06/30/22 12:34	1
Benzo[k]fluoranthene	ND		0.020	ug/L		06/28/22 10:57	06/30/22 12:34	1
beta-BHC	ND		0.098	ug/L		06/28/22 10:57	06/30/22 12:34	1
Bromacil	ND		0.098	ug/L		06/28/22 10:57	06/30/22 12:34	1
Butachlor	ND		0.049	ug/L		06/28/22 10:57	06/30/22 12:34	1
Butylbenzylphthalate	ND		0.49	ug/L		06/28/22 10:57	06/30/22 12:34	1
Caffeine	ND		0.049	ug/L		06/28/22 10:57	06/30/22 12:34	1
Chlorobenzilate	ND		0.098	ug/L		06/28/22 10:57	06/30/22 12:34	1
Chloroneb	ND		0.098	ug/L		06/28/22 10:57	06/30/22 12:34	1
Chlorothalonil (Draconil, Bravo)	ND		0.098	ug/L		06/28/22 10:57	06/30/22 12:34	1
Chlorpyrifos	ND		0.049	ug/L		06/28/22 10:57	06/30/22 12:34	1
Chrysene	ND		0.020	ug/L		06/28/22 10:57	06/30/22 12:34	1
delta-BHC	ND		0.098	ug/L		06/28/22 10:57	06/30/22 12:34	1
Di(2-ethylhexyl)adipate	ND		0.59	ug/L		06/28/22 10:57	06/30/22 12:34	1
Bis(2-ethylhexyl) phthalate	ND		0.59	ug/L		06/28/22 10:57	06/30/22 12:34	1
Diazinon (Qualitative)	ND		0.098	ug/L		06/28/22 10:57	06/30/22 12:34	1
Dibenz(a,h)anthracene	ND		0.049	ug/L		06/28/22 10:57	06/30/22 12:34	1
Diclorvos (DDVP)	ND		0.049	ug/L		06/28/22 10:57	06/30/22 12:34	1
Dieldrin	ND		0.20	ug/L		06/28/22 10:57	06/30/22 12:34	1
Diethylphthalate	ND		0.49	ug/L		06/28/22 10:57	06/30/22 12:34	1
Dimethoate	ND		0.098	ug/L		06/28/22 10:57	06/30/22 12:34	1
Dimethylphthalate	ND		0.49	ug/L		06/28/22 10:57	06/30/22 12:34	1
Di-n-butyl phthalate	ND		0.98	ug/L		06/28/22 10:57	06/30/22 12:34	1
Di-n-octyl phthalate	ND		0.098	ug/L		06/28/22 10:57	06/30/22 12:34	1
Endosulfan I (Alpha)	ND		0.098	ug/L		06/28/22 10:57	06/30/22 12:34	1
Endosulfan II (Beta)	ND		0.098	ug/L		06/28/22 10:57	06/30/22 12:34	1
Endosulfan sulfate	ND		0.098	ug/L		06/28/22 10:57	06/30/22 12:34	1
Endrin	ND		0.098	ug/L		06/28/22 10:57	06/30/22 12:34	1
Endrin aldehyde	ND		0.098	ug/L		06/28/22 10:57	06/30/22 12:34	1

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QC Sample Results

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

Job ID: 380-5328-1

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

Lab Sample ID: MB 380-7062/1-A
Matrix: Water
Analysis Batch: 7327

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 7062

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
EPTC	ND		0.098	ug/L		06/28/22 10:57	06/30/22 12:34	1
Fluoranthene	ND		0.098	ug/L		06/28/22 10:57	06/30/22 12:34	1
Fluorene	ND		0.049	ug/L		06/28/22 10:57	06/30/22 12:34	1
gamma-Chlordane	ND		0.049	ug/L		06/28/22 10:57	06/30/22 12:34	1
Heptachlor	ND		0.039	ug/L		06/28/22 10:57	06/30/22 12:34	1
Heptachlor epoxide (isomer B)	ND		0.049	ug/L		06/28/22 10:57	06/30/22 12:34	1
Hexachlorobenzene	ND		0.049	ug/L		06/28/22 10:57	06/30/22 12:34	1
Hexachlorocyclopentadiene	ND		0.049	ug/L		06/28/22 10:57	06/30/22 12:34	1
Indeno[1,2,3-cd]pyrene	ND		0.049	ug/L		06/28/22 10:57	06/30/22 12:34	1
Isophorone	ND		0.49	ug/L		06/28/22 10:57	06/30/22 12:34	1
Lindane	ND		0.039	ug/L		06/28/22 10:57	06/30/22 12:34	1
Malathion	ND		0.098	ug/L		06/28/22 10:57	06/30/22 12:34	1
Methoxychlor	ND		0.098	ug/L		06/28/22 10:57	06/30/22 12:34	1
Metolachlor	ND		0.049	ug/L		06/28/22 10:57	06/30/22 12:34	1
Metribuzin	ND		0.049	ug/L		06/28/22 10:57	06/30/22 12:34	1
Molinate	ND		0.098	ug/L		06/28/22 10:57	06/30/22 12:34	1
Naphthalene	ND		0.29	ug/L		06/28/22 10:57	06/30/22 12:34	1
Parathion	ND		0.098	ug/L		06/28/22 10:57	06/30/22 12:34	1
Pendimethalin (Penoxaline)	ND		0.098	ug/L		06/28/22 10:57	06/30/22 12:34	1
Total Permethrin (mixed isomers)	ND		0.20	ug/L		06/28/22 10:57	06/30/22 12:34	1
Phenanthrene	ND		0.039	ug/L		06/28/22 10:57	06/30/22 12:34	1
Propachlor	ND		0.049	ug/L		06/28/22 10:57	06/30/22 12:34	1
Pyrene	ND		0.049	ug/L		06/28/22 10:57	06/30/22 12:34	1
Simazine	ND		0.049	ug/L		06/28/22 10:57	06/30/22 12:34	1
Terbacil	ND		0.098	ug/L		06/28/22 10:57	06/30/22 12:34	1
Terbutylazine	ND		0.098	ug/L		06/28/22 10:57	06/30/22 12:34	1
Thiobencarb	ND		0.20	ug/L		06/28/22 10:57	06/30/22 12:34	1
trans-Nonachlor	ND		0.049	ug/L		06/28/22 10:57	06/30/22 12:34	1
Trifluralin	ND		0.098	ug/L		06/28/22 10:57	06/30/22 12:34	1

<i>Tentatively Identified Compound</i>	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
<i>Tentatively Identified Compound</i>	None		ug/L				06/28/22 10:57	06/30/22 12:34	1

<i>Surrogate</i>	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>2-Nitro-m-xylene</i>	98		70 - 130	06/28/22 10:57	06/30/22 12:34	1
<i>Triphenylphosphate</i>	104		70 - 130	06/28/22 10:57	06/30/22 12:34	1
<i>Perylene-d12</i>	97		70 - 130	06/28/22 10:57	06/30/22 12:34	1

Lab Sample ID: LCS 380-7062/3-A
Matrix: Water
Analysis Batch: 7327

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 7062

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4'-DDD	1.97	2.22		ug/L		113	70 - 130
2,4'-DDE	1.97	2.11		ug/L		107	70 - 130
2,4'-DDT	1.97	2.22		ug/L		113	70 - 130
2,4-Dinitrotoluene	1.97	2.24		ug/L		114	70 - 130
2,6-Dinitrotoluene	1.97	2.31		ug/L		117	70 - 130

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QC Sample Results

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

Job ID: 380-5328-1

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

Lab Sample ID: LCS 380-7062/3-A

Matrix: Water

Analysis Batch: 7327

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 7062

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	1.97	2.34		ug/L		119	70 - 130
4,4'-DDE	1.97	2.34		ug/L		119	70 - 130
4,4'-DDT	1.97	2.28		ug/L		116	70 - 130
Acenaphthene	1.97	2.09		ug/L		106	70 - 130
Acenaphthylene	1.97	2.14		ug/L		109	70 - 130
Acetochlor	1.97	2.35		ug/L		119	70 - 130
Alachlor	1.97	2.28		ug/L		116	70 - 130
alpha-BHC	1.97	2.23		ug/L		113	70 - 130
alpha-Chlordane	1.97	2.08		ug/L		106	70 - 130
Anthracene	1.97	2.26		ug/L		115	70 - 130
Atrazine	1.97	2.48		ug/L		126	70 - 130
Benz(a)anthracene	1.97	2.39		ug/L		121	70 - 130
Benzo[a]pyrene	1.97	2.22		ug/L		113	70 - 130
Benzo[b]fluoranthene	1.97	2.42		ug/L		123	70 - 130
Benzo[g,h,i]perylene	1.97	2.22		ug/L		113	70 - 130
Benzo[k]fluoranthene	1.97	2.24		ug/L		114	70 - 130
beta-BHC	1.97	2.26		ug/L		114	70 - 130
Bromacil	1.97	2.42		ug/L		123	70 - 130
Butachlor	1.97	2.61	*+	ug/L		132	70 - 130
Butylbenzylphthalate	1.97	2.42		ug/L		123	70 - 130
Caffeine	1.97	1.51		ug/L		76	45 - 137
Chlorobenzilate	1.97	2.27		ug/L		115	70 - 130
Chloroneb	1.97	2.13		ug/L		108	70 - 130
Chlorothalonil (Draconil, Bravo)	1.97	2.43		ug/L		123	70 - 130
Chlorpyrifos	1.97	2.28		ug/L		116	70 - 130
Chrysene	1.97	2.07		ug/L		105	70 - 130
delta-BHC	1.97	2.10		ug/L		106	70 - 130
Di(2-ethylhexyl)adipate	1.97	2.50		ug/L		127	70 - 130
Bis(2-ethylhexyl) phthalate	1.97	2.28		ug/L		116	70 - 130
Diazinon (Qualitative)	1.97	1.93		ug/L		98	15 - 132
Dibenz(a,h)anthracene	1.97	2.27		ug/L		115	70 - 130
Diclorvos (DDVP)	1.97	2.35		ug/L		119	70 - 130
Dieldrin	1.97	2.04		ug/L		103	70 - 130
Diethylphthalate	1.97	2.24		ug/L		114	70 - 130
Dimethoate	1.97	1.37		ug/L		69	35 - 100
Dimethylphthalate	1.97	2.26		ug/L		115	70 - 130
Di-n-butyl phthalate	3.94	4.48		ug/L		114	70 - 130
Di-n-octyl phthalate	1.97	1.95		ug/L		99	70 - 130
Endosulfan I (Alpha)	1.97	2.07		ug/L		105	70 - 130
Endosulfan II (Beta)	1.97	2.09		ug/L		106	70 - 130
Endosulfan sulfate	1.97	2.29		ug/L		116	70 - 130
Endrin	1.97	2.34		ug/L		119	70 - 130
Endrin aldehyde	1.97	2.36		ug/L		120	70 - 130
EPTC	1.97	2.18		ug/L		111	70 - 130
Fluoranthene	1.97	2.37		ug/L		120	70 - 130
Fluorene	1.97	2.27		ug/L		115	70 - 130
gamma-Chlordane	1.97	2.55		ug/L		129	70 - 130
Heptachlor	1.97	2.14		ug/L		108	70 - 130
Heptachlor epoxide (isomer B)	1.97	2.44		ug/L		124	70 - 130

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QC Sample Results

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

Job ID: 380-5328-1

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

Lab Sample ID: LCS 380-7062/3-A
Matrix: Water
Analysis Batch: 7327

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 7062

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Hexachlorobenzene	1.97	2.09		ug/L		106	70 - 130
Hexachlorocyclopentadiene	1.97	2.37		ug/L		120	70 - 130
Indeno[1,2,3-cd]pyrene	1.97	2.32		ug/L		118	70 - 130
Isophorone	1.97	2.20		ug/L		112	70 - 130
Lindane	1.97	2.17		ug/L		110	70 - 130
Malathion	1.97	2.49		ug/L		126	70 - 130
Methoxychlor	1.97	2.50		ug/L		127	70 - 130
Metolachlor	1.97	2.52		ug/L		128	70 - 130
Metribuzin	1.97	2.05		ug/L		104	70 - 130
Molinate	1.97	2.30		ug/L		117	70 - 130
Naphthalene	1.97	1.94		ug/L		99	70 - 130
Parathion	1.97	2.37		ug/L		120	70 - 130
Pendimethalin (Penoxaline)	1.97	2.28		ug/L		116	70 - 130
Phenanthrene	1.97	2.08		ug/L		106	70 - 130
Propachlor	1.97	2.27		ug/L		115	70 - 130
Pyrene	1.97	2.37		ug/L		120	70 - 130
Simazine	1.97	2.52		ug/L		128	70 - 130
Terbacil	1.97	2.38		ug/L		121	70 - 130
Terbutylazine	1.97	2.37		ug/L		120	70 - 130
Thiobencarb	1.97	2.15		ug/L		109	70 - 130
trans-Nonachlor	1.97	2.32		ug/L		118	70 - 130
Trifluralin	1.97	2.20		ug/L		112	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Nitro-m-xylene	99		70 - 130
Triphenylphosphate	112		70 - 130
Perylene-d12	98		70 - 130

Lab Sample ID: LCSD 380-7062/4-A
Matrix: Water
Analysis Batch: 7327

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 7062

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4'-DDD	1.98	2.17		ug/L		110	70 - 130	3	20
2,4'-DDE	1.98	2.09		ug/L		106	70 - 130	1	20
2,4'-DDT	1.98	2.26		ug/L		114	70 - 130	2	20
2,4-Dinitrotoluene	1.98	2.12		ug/L		107	70 - 130	5	20
2,6-Dinitrotoluene	1.98	2.31		ug/L		117	70 - 130	0	20
4,4'-DDD	1.98	2.34		ug/L		118	70 - 130	0	20
4,4'-DDE	1.98	2.28		ug/L		115	70 - 130	3	20
4,4'-DDT	1.98	2.32		ug/L		117	70 - 130	2	20
Acenaphthene	1.98	2.04		ug/L		103	70 - 130	2	20
Acenaphthylene	1.98	2.08		ug/L		105	70 - 130	3	20
Acetochlor	1.98	2.27		ug/L		115	70 - 130	4	20
Alachlor	1.98	2.22		ug/L		112	70 - 130	3	20
alpha-BHC	1.98	2.03		ug/L		103	70 - 130	10	20
alpha-Chlordane	1.98	2.09		ug/L		106	70 - 130	0	20
Anthracene	1.98	2.21		ug/L		111	70 - 130	3	20

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QC Sample Results

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

Job ID: 380-5328-1

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

Lab Sample ID: LCSD 380-7062/4-A
Matrix: Water
Analysis Batch: 7327

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 7062

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Atrazine	1.98	2.34		ug/L		118	70 - 130	6	20
Benz(a)anthracene	1.98	2.38		ug/L		120	70 - 130	0	20
Benzo[a]pyrene	1.98	2.32		ug/L		118	70 - 130	5	20
Benzo[b]fluoranthene	1.98	2.44		ug/L		123	70 - 130	1	20
Benzo[g,h,i]perylene	1.98	2.33		ug/L		118	70 - 130	5	20
Benzo[k]fluoranthene	1.98	2.25		ug/L		114	70 - 130	0	20
beta-BHC	1.98	2.05		ug/L		104	70 - 130	10	20
Bromacil	1.98	2.33		ug/L		118	70 - 130	4	20
Butachlor	1.98	2.51		ug/L		127	70 - 130	4	20
Butylbenzylphthalate	1.98	2.36		ug/L		119	70 - 130	2	20
Caffeine	1.98	1.53		ug/L		77	45 - 137	1	20
Chlorobenzilate	1.98	2.14		ug/L		108	70 - 130	6	20
Chloroneb	1.98	2.09		ug/L		106	70 - 130	2	20
Chlorothalonil (Draconil, Bravo)	1.98	2.44		ug/L		123	70 - 130	0	20
Chlorpyrifos	1.98	2.18		ug/L		110	70 - 130	5	20
Chrysene	1.98	2.10		ug/L		106	70 - 130	1	20
delta-BHC	1.98	1.97		ug/L		99	70 - 130	6	20
Di(2-ethylhexyl)adipate	1.98	2.50		ug/L		126	70 - 130	0	20
Bis(2-ethylhexyl) phthalate	1.98	2.24		ug/L		113	70 - 130	2	20
Diazinon (Qualitative)	1.98	1.78		ug/L		90	15 - 132	8	20
Dibenz(a,h)anthracene	1.98	2.42		ug/L		123	70 - 130	7	20
Diclorvos (DDVP)	1.98	2.30		ug/L		116	70 - 130	2	20
Dieldrin	1.98	1.96		ug/L		99	70 - 130	4	20
Diethylphthalate	1.98	2.06		ug/L		104	70 - 130	8	20
Dimethoate	1.98	1.29		ug/L		65	35 - 100	6	20
Dimethylphthalate	1.98	2.24		ug/L		113	70 - 130	1	20
Di-n-butyl phthalate	3.96	4.44		ug/L		112	70 - 130	1	20
Di-n-octyl phthalate	1.98	1.90		ug/L		96	70 - 130	3	20
Endosulfan I (Alpha)	1.98	1.99		ug/L		101	70 - 130	4	20
Endosulfan II (Beta)	1.98	2.14		ug/L		108	70 - 130	2	20
Endosulfan sulfate	1.98	2.31		ug/L		117	70 - 130	1	20
Endrin	1.98	2.35		ug/L		119	70 - 130	0	20
Endrin aldehyde	1.98	2.36		ug/L		119	70 - 130	0	20
EPTC	1.98	2.09		ug/L		106	70 - 130	4	20
Fluoranthene	1.98	2.32		ug/L		117	70 - 130	2	20
Fluorene	1.98	2.10		ug/L		106	70 - 130	8	20
gamma-Chlordane	1.98	2.57		ug/L		130	70 - 130	1	20
Heptachlor	1.98	2.13		ug/L		108	70 - 130	0	20
Heptachlor epoxide (isomer B)	1.98	2.41		ug/L		122	70 - 130	1	20
Hexachlorobenzene	1.98	2.04		ug/L		103	70 - 130	2	20
Hexachlorocyclopentadiene	1.98	2.31		ug/L		117	70 - 130	3	20
Indeno[1,2,3-cd]pyrene	1.98	2.41		ug/L		122	70 - 130	4	20
Isophorone	1.98	2.12		ug/L		107	70 - 130	4	20
Lindane	1.98	2.02		ug/L		102	70 - 130	7	20
Malathion	1.98	2.43		ug/L		123	70 - 130	3	20
Methoxychlor	1.98	2.54		ug/L		129	70 - 130	2	20
Metolachlor	1.98	2.43		ug/L		123	70 - 130	4	20
Metribuzin	1.98	2.02		ug/L		102	70 - 130	1	20
Molinate	1.98	2.26		ug/L		114	70 - 130	2	20

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QC Sample Results

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

Job ID: 380-5328-1

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

Lab Sample ID: LCSD 380-7062/4-A
Matrix: Water
Analysis Batch: 7327

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 7062

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Naphthalene	1.98	1.94		ug/L		98	70 - 130	0	20
Parathion	1.98	2.31		ug/L		117	70 - 130	3	20
Pendimethalin (Penoxaline)	1.98	2.32		ug/L		117	70 - 130	2	20
Phenanthrene	1.98	2.05		ug/L		104	70 - 130	2	20
Propachlor	1.98	2.11		ug/L		107	70 - 130	8	20
Pyrene	1.98	2.35		ug/L		119	70 - 130	1	20
Simazine	1.98	2.28		ug/L		115	70 - 130	10	20
Terbacil	1.98	2.41		ug/L		122	70 - 130	1	20
Terbutylazine	1.98	2.20		ug/L		111	70 - 130	8	20
Thiobencarb	1.98	2.12		ug/L		107	70 - 130	2	20
trans-Nonachlor	1.98	2.31		ug/L		117	70 - 130	0	20
Trifluralin	1.98	2.15		ug/L		109	70 - 130	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
2-Nitro-m-xylene	98		70 - 130
Triphenylphosphate	111		70 - 130
Perylene-d12	103		70 - 130

Lab Sample ID: MRL 380-7062/2-A
Matrix: Water
Analysis Batch: 7327

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 7062

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
2,4'-DDD	0.0985	0.116		ug/L		118	50 - 150
2,4'-DDE	0.0985	0.107		ug/L		109	50 - 150
2,4'-DDT	0.0985	0.113		ug/L		115	50 - 150
2,4-Dinitrotoluene	0.0985	0.118		ug/L		120	50 - 150
2,6-Dinitrotoluene	0.0985	ND		ug/L		86	50 - 150
4,4'-DDD	0.0985	0.112		ug/L		114	50 - 150
4,4'-DDE	0.0985	0.107		ug/L		109	50 - 150
4,4'-DDT	0.0985	0.109		ug/L		111	50 - 150
Acenaphthene	0.0985	0.106		ug/L		107	50 - 150
Acenaphthylene	0.0985	ND		ug/L		88	50 - 150
Acetochlor	0.0493	ND		ug/L		98	50 - 150
Alachlor	0.0493	0.0639		ug/L		130	50 - 150
alpha-BHC	0.0985	0.116		ug/L		118	50 - 150
alpha-Chlordane	0.0493	0.0513		ug/L		104	50 - 150
Anthracene	0.0197	0.0242		ug/L		123	50 - 150
Atrazine	0.0493	0.0550		ug/L		112	50 - 150
Benz(a)anthracene	0.0493	0.0600		ug/L		122	50 - 150
Benzo[a]pyrene	0.0197	ND		ug/L		101	50 - 150
Benzo[b]fluoranthene	0.0197	0.0250		ug/L		127	50 - 150
Benzo[g,h,i]perylene	0.0493	0.0492		ug/L		100	50 - 150
Benzo[k]fluoranthene	0.0197	0.0214		ug/L		109	50 - 150
beta-BHC	0.0985	0.114		ug/L		115	50 - 150
Bromacil	0.0985	0.138		ug/L		140	50 - 150
Butachlor	0.0493	0.0683		ug/L		139	50 - 150
Butylbenzylphthalate	0.148	ND		ug/L		125	50 - 150

Eurofins Eaton Monrovia

QC Sample Results

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

Job ID: 380-5328-1

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

Lab Sample ID: MRL 380-7062/2-A

Matrix: Water

Analysis Batch: 7327

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 7062

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Caffeine	0.0493	ND		ug/L		71	50 - 150
Chlorobenzilate	0.0985	0.112		ug/L		114	50 - 150
Chloroneb	0.0985	0.108		ug/L		109	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0985	0.104		ug/L		106	50 - 150
Chlorpyrifos	0.0493	0.0608		ug/L		123	50 - 150
Chrysene	0.0197	0.0219		ug/L		111	50 - 150
delta-BHC	0.0985	0.120		ug/L		121	50 - 150
Di(2-ethylhexyl)adipate	0.296	ND	^3+	ug/L		167	50 - 150
Bis(2-ethylhexyl) phthalate	0.591	0.801		ug/L		135	50 - 150
Diazinon (Qualitative)	0.0985	ND		ug/L		92	15 - 132
Dibenz(a,h)anthracene	0.0493	0.0493		ug/L		100	50 - 150
Diclorvos (DDVP)	0.0493	0.0519		ug/L		105	50 - 150
Dieldrin	0.0985	ND		ug/L		112	50 - 150
Diethylphthalate	0.148	ND		ug/L		123	50 - 150
Dimethoate	0.0985	ND		ug/L		52	35 - 100
Dimethylphthalate	0.296	ND		ug/L		109	50 - 150
Di-n-butyl phthalate	0.296	ND		ug/L		145	50 - 150
Di-n-octyl phthalate	0.0985	0.125		ug/L		126	50 - 150
Endosulfan I (Alpha)	0.0985	0.100		ug/L		102	50 - 150
Endosulfan II (Beta)	0.0985	0.124		ug/L		126	50 - 150
Endosulfan sulfate	0.0985	0.108		ug/L		110	50 - 150
Endrin	0.0985	0.134		ug/L		136	50 - 150
Endrin aldehyde	0.0985	ND		ug/L		94	50 - 150
EPTC	0.0985	0.106		ug/L		108	50 - 150
Fluoranthene	0.0493	ND		ug/L		121	50 - 150
Fluorene	0.0493	0.0546		ug/L		111	50 - 150
gamma-Chlordane	0.0493	0.0626		ug/L		127	50 - 150
Heptachlor	0.0394	0.0699	^3+	ug/L		177	50 - 150
Heptachlor epoxide (isomer B)	0.0493	0.0562		ug/L		114	50 - 150
Hexachlorobenzene	0.0493	0.0623		ug/L		127	50 - 150
Hexachlorocyclopentadiene	0.0493	0.0532		ug/L		108	50 - 150
Indeno[1,2,3-cd]pyrene	0.0493	ND		ug/L		93	50 - 150
Isophorone	0.0985	ND		ug/L		107	50 - 150
Lindane	0.0493	0.0512		ug/L		104	50 - 150
Malathion	0.0985	0.106		ug/L		108	50 - 150
Methoxychlor	0.0985	0.115		ug/L		117	50 - 150
Metolachlor	0.0493	0.0587		ug/L		119	50 - 150
Metribuzin	0.0493	0.0740		ug/L		150	50 - 150
Molinate	0.0985	0.108		ug/L		110	50 - 150
Naphthalene	0.0985	ND		ug/L		108	50 - 150
Parathion	0.0985	0.118		ug/L		120	50 - 150
Pendimethalin (Penoxaline)	0.0985	0.114		ug/L		116	50 - 150
Phenanthrene	0.0197	ND		ug/L		129	50 - 150
Propachlor	0.0493	0.0557		ug/L		113	50 - 150
Pyrene	0.0493	0.0594		ug/L		121	50 - 150
Simazine	0.0493	0.0607		ug/L		123	50 - 150
Terbacil	0.0985	0.109		ug/L		110	50 - 150
Terbutylazine	0.0985	0.111		ug/L		113	50 - 150
Thiobencarb	0.0985	ND		ug/L		119	50 - 150

Eurofins Eaton Monrovia

QC Sample Results

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

Job ID: 380-5328-1

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

Lab Sample ID: MRL 380-7062/2-A
Matrix: Water
Analysis Batch: 7327

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 7062

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
trans-Nonachlor	0.0493	0.0607		ug/L		123	50 - 150
Trifluralin	0.0985	0.118		ug/L		120	50 - 150
Surrogate	MRL %Recovery	MRL Qualifier	Limits				
2-Nitro-m-xylene	99		70 - 130				
Triphenylphosphate	111		70 - 130				
Perylene-d12	97		70 - 130				

Lab Sample ID: 380-4120-B-5-A MS
Matrix: Water
Analysis Batch: 7327

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 7062

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
2,4'-DDD	ND		1.97	2.20		ug/L		112	70 - 130
2,4'-DDE	ND		1.97	2.02		ug/L		103	70 - 130
2,4'-DDT	ND		1.97	2.27		ug/L		115	70 - 130
2,4-Dinitrotoluene	ND		1.97	2.34		ug/L		119	70 - 130
2,6-Dinitrotoluene	ND		1.97	2.36		ug/L		120	70 - 130
4,4'-DDD	ND		1.97	2.39		ug/L		122	70 - 130
4,4'-DDE	ND		1.97	2.23		ug/L		113	70 - 130
4,4'-DDT	ND		1.97	2.32		ug/L		118	70 - 130
Acenaphthene	ND		1.97	2.01		ug/L		102	70 - 130
Acenaphthylene	ND		1.97	2.11		ug/L		107	70 - 130
Acetochlor	ND		1.97	2.30		ug/L		117	70 - 130
Alachlor	ND		1.97	2.29		ug/L		116	70 - 130
alpha-BHC	ND		1.97	2.20		ug/L		112	70 - 130
alpha-Chlordane	ND		1.97	2.06		ug/L		105	70 - 130
Anthracene	ND		1.97	1.93		ug/L		98	70 - 130
Atrazine	ND		1.97	2.21		ug/L		112	70 - 130
Benz(a)anthracene	ND		1.97	2.31		ug/L		117	70 - 130
Benzo[a]pyrene	ND		1.97	2.20		ug/L		112	70 - 130
Benzo[b]fluoranthene	ND		1.97	2.57		ug/L		130	70 - 130
Benzo[g,h,i]perylene	ND		1.97	2.17		ug/L		110	70 - 130
Benzo[k]fluoranthene	ND		1.97	2.29		ug/L		116	70 - 130
beta-BHC	ND		1.97	2.25		ug/L		115	70 - 130
Bromacil	ND	F1	1.97	2.63	F1	ug/L		133	70 - 130
Butachlor	ND	*+	1.97	2.45		ug/L		125	70 - 130
Butylbenzylphthalate	ND		1.97	2.47		ug/L		125	70 - 130
Caffeine	ND		1.97	1.76		ug/L		89	46 - 144
Chlorobenzilate	ND	F1	1.97	2.69	F1	ug/L		137	70 - 130
Chloroneb	ND		1.97	2.04		ug/L		103	70 - 130
Chlorothalonil (Draconil, Bravo)	ND		1.97	2.39		ug/L		121	70 - 130
Chlorpyrifos	ND		1.97	2.21		ug/L		112	70 - 130
Chrysene	ND		1.97	2.10		ug/L		107	70 - 130
delta-BHC	ND		1.97	2.18		ug/L		111	70 - 130
Di(2-ethylhexyl)adipate	ND	^3+	1.97	2.51		ug/L		120	70 - 130
Bis(2-ethylhexyl) phthalate	ND		1.97	2.20		ug/L		112	70 - 130
Diazinon (Qualitative)	ND		1.97	2.08		ug/L		105	15 - 132

Eurofins Eaton Monrovia

QC Sample Results

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

Job ID: 380-5328-1

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

Lab Sample ID: 380-4120-B-5-A MS

Matrix: Water

Analysis Batch: 7327

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 7062

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
Dibenz(a,h)anthracene	ND		1.97	2.36		ug/L		120	70 - 130
Diclorvos (DDVP)	ND		1.97	2.36		ug/L		120	70 - 130
Dieldrin	ND		1.97	2.02		ug/L		102	70 - 130
Diethylphthalate	ND		1.97	2.52		ug/L		122	70 - 130
Dimethoate	ND		1.97	1.64		ug/L		84	34 - 111
Dimethylphthalate	ND		1.97	2.32		ug/L		118	70 - 130
Di-n-butyl phthalate	ND		3.94	4.91		ug/L		116	70 - 130
Di-n-octyl phthalate	ND		1.97	2.06		ug/L		105	70 - 130
Endosulfan I (Alpha)	ND		1.97	2.18		ug/L		111	70 - 130
Endosulfan II (Beta)	ND		1.97	2.37		ug/L		121	70 - 130
Endosulfan sulfate	ND		1.97	2.32		ug/L		118	70 - 130
Endrin	ND		1.97	1.89		ug/L		96	70 - 130
Endrin aldehyde	ND		1.97	1.45		ug/L		73	70 - 130
EPTC	ND		1.97	2.11		ug/L		107	70 - 130
Fluoranthene	ND		1.97	2.37		ug/L		120	70 - 130
Fluorene	ND		1.97	2.21		ug/L		112	70 - 130
gamma-Chlordane	ND	F1	1.97	2.57	F1	ug/L		131	70 - 130
Heptachlor	ND	^3+	1.97	2.01		ug/L		102	70 - 130
Heptachlor epoxide (isomer B)	ND		1.97	2.44		ug/L		124	70 - 130
Hexachlorobenzene	ND		1.97	2.04		ug/L		104	70 - 130
Hexachlorocyclopentadiene	ND		1.97	2.30		ug/L		117	70 - 130
Indeno[1,2,3-cd]pyrene	ND		1.97	2.29		ug/L		117	70 - 130
Isophorone	ND		1.97	2.15		ug/L		109	70 - 130
Lindane	ND	F1	1.97	2.89	F1	ug/L		147	70 - 130
Malathion	ND	F1	1.97	2.60	F1	ug/L		132	70 - 130
Methoxychlor	ND	F1	1.97	2.58	F1	ug/L		131	70 - 130
Metolachlor	ND		1.97	2.46		ug/L		125	70 - 130
Metribuzin	ND		1.97	1.69		ug/L		86	70 - 130
Molinate	ND		1.97	2.26		ug/L		115	70 - 130
Naphthalene	ND		1.97	1.92		ug/L		97	70 - 130
Parathion	ND		1.97	2.39		ug/L		121	70 - 130
Pendimethalin (Penoxaline)	ND		1.97	2.39		ug/L		122	70 - 130
Phenanthrene	ND		1.97	2.04		ug/L		104	70 - 130
Propachlor	ND		1.97	2.40		ug/L		122	70 - 130
Pyrene	ND		1.97	2.39		ug/L		121	70 - 130
Simazine	ND		1.97	2.27		ug/L		115	70 - 130
Terbacil	ND		1.97	2.35		ug/L		119	70 - 130
Terbutylazine	ND		1.97	2.21		ug/L		112	70 - 130
Thiobencarb	ND		1.97	2.16		ug/L		110	70 - 130
trans-Nonachlor	ND		1.97	2.26		ug/L		115	70 - 130
Trifluralin	ND		1.97	2.29		ug/L		116	70 - 130
		MS MS							
Surrogate		%Recovery	Qualifier	Limits					
2-Nitro-m-xylene		99		70 - 130					
Triphenylphosphate		117		70 - 130					
Perylene-d12		99		70 - 130					

QC Sample Results

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

Job ID: 380-5328-1

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

Lab Sample ID: 380-5326-H-1-A DU
Matrix: Water
Analysis Batch: 7327

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 7062

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
2,4'-DDD	ND		ND		ug/L		NC	20
2,4'-DDE	ND		ND		ug/L		NC	20
2,4'-DDT	ND		ND		ug/L		NC	20
2,4-Dinitrotoluene	ND		ND		ug/L		NC	20
2,6-Dinitrotoluene	ND		ND		ug/L		NC	20
4,4'-DDD	ND		ND		ug/L		NC	20
4,4'-DDE	ND		ND		ug/L		NC	20
4,4'-DDT	ND		ND		ug/L		NC	20
Acenaphthene	ND		ND		ug/L		NC	20
Acenaphthylene	ND		ND		ug/L		NC	20
Acetochlor	ND		ND		ug/L		NC	20
Alachlor	ND		ND		ug/L		NC	20
alpha-BHC	ND		ND		ug/L		NC	20
alpha-Chlordane	ND		ND		ug/L		NC	20
Anthracene	ND		ND		ug/L		NC	20
Atrazine	ND		ND		ug/L		NC	20
Benz(a)anthracene	ND		ND		ug/L		NC	20
Benzo[a]pyrene	ND		ND		ug/L		NC	20
Benzo[b]fluoranthene	ND		ND		ug/L		NC	20
Benzo[g,h,i]perylene	ND		ND		ug/L		NC	20
Benzo[k]fluoranthene	ND		ND		ug/L		NC	20
beta-BHC	ND		ND		ug/L		NC	20
Bromacil	ND		ND		ug/L		NC	20
Butachlor	ND	*+	ND	*+	ug/L		NC	20
Butylbenzylphthalate	ND		ND		ug/L		NC	20
Caffeine	ND		ND		ug/L		NC	20
Chlorobenzilate	ND		ND		ug/L		NC	20
Chloroneb	ND		ND		ug/L		NC	20
Chlorothalonil (Draconil, Bravo)	ND		ND		ug/L		NC	20
Chlorpyrifos	ND		ND		ug/L		NC	20
Chrysene	ND		ND		ug/L		NC	20
delta-BHC	ND		ND		ug/L		NC	20
Di(2-ethylhexyl)adipate	ND	^3+	ND		ug/L		NC	20
Bis(2-ethylhexyl) phthalate	ND		ND		ug/L		NC	20
Diazinon (Qualitative)	ND		ND		ug/L		NC	20
Dibenz(a,h)anthracene	ND		ND		ug/L		NC	20
Diclorvos (DDVP)	ND		ND		ug/L		NC	20
Dieldrin	ND		ND		ug/L		NC	20
Diethylphthalate	ND		ND		ug/L		NC	20
Dimethoate	ND		ND		ug/L		NC	20
Dimethylphthalate	ND		ND		ug/L		NC	20
Di-n-butyl phthalate	ND		ND		ug/L		NC	20
Di-n-octyl phthalate	ND		ND		ug/L		NC	20
Endosulfan I (Alpha)	ND		ND		ug/L		NC	20
Endosulfan II (Beta)	ND		ND		ug/L		NC	20
Endosulfan sulfate	ND		ND		ug/L		NC	20
Endrin	ND		ND		ug/L		NC	20
Endrin aldehyde	ND		ND		ug/L		NC	20

Eurofins Eaton Monrovia

QC Sample Results

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

Job ID: 380-5328-1

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

Lab Sample ID: 380-5326-H-1-A DU
Matrix: Water
Analysis Batch: 7327

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 7062

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
EPTC	ND		ND		ug/L		NC	20
Fluoranthene	ND		ND		ug/L		NC	20
Fluorene	ND		ND		ug/L		NC	20
gamma-Chlordane	ND		ND		ug/L		NC	20
Heptachlor	ND	^3+	ND		ug/L		NC	20
Heptachlor epoxide (isomer B)	ND		ND		ug/L		NC	20
Hexachlorobenzene	ND		ND		ug/L		NC	20
Hexachlorocyclopentadiene	ND		ND		ug/L		NC	20
Indeno[1,2,3-cd]pyrene	ND		ND		ug/L		NC	20
Isophorone	ND		ND		ug/L		NC	20
Lindane	ND		ND		ug/L		NC	20
Malathion	ND		ND		ug/L		NC	20
Methoxychlor	ND		ND		ug/L		NC	20
Metolachlor	ND		ND		ug/L		NC	20
Metribuzin	ND		ND		ug/L		NC	20
Molinate	ND		ND		ug/L		NC	20
Naphthalene	ND		ND		ug/L		NC	20
Parathion	ND		ND		ug/L		NC	20
Pendimethalin (Penoxaline)	ND		ND		ug/L		NC	20
Total Permethrin (mixed isomers)	ND		ND		ug/L		NC	20
Phenanthrene	ND		ND		ug/L		NC	20
Propachlor	ND		ND		ug/L		NC	20
Pyrene	ND		ND		ug/L		NC	20
Simazine	ND		ND		ug/L		NC	20
Terbacil	ND		ND		ug/L		NC	20
Terbutylazine	ND		ND		ug/L		NC	20
Thiobencarb	ND		ND		ug/L		NC	20
trans-Nonachlor	ND		ND		ug/L		NC	20
Trifluralin	ND		ND		ug/L		NC	20
		DU	DU					
Surrogate	%Recovery	Qualifier						Limits
2-Nitro-m-xylene	97							70 - 130
Triphenylphosphate	106							70 - 130
Perylene-d12	100							70 - 130

QC Association Summary

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

Job ID: 380-5328-1

GC/MS Semi VOA

Prep Batch: 7062

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-5328-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	525.2	
MB 380-7062/1-A	Method Blank	Total/NA	Water	525.2	
LCS 380-7062/3-A	Lab Control Sample	Total/NA	Water	525.2	
LCSD 380-7062/4-A	Lab Control Sample Dup	Total/NA	Water	525.2	
MRL 380-7062/2-A	Lab Control Sample	Total/NA	Water	525.2	
380-4120-B-5-A MS	Matrix Spike	Total/NA	Water	525.2	
380-5326-H-1-A DU	Duplicate	Total/NA	Water	525.2	

Analysis Batch: 7327

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-5328-1	HALAWA SHAFT VIEWING POOL	Total/NA	Water	525.2	7062
MB 380-7062/1-A	Method Blank	Total/NA	Water	525.2	7062
LCS 380-7062/3-A	Lab Control Sample	Total/NA	Water	525.2	7062
LCSD 380-7062/4-A	Lab Control Sample Dup	Total/NA	Water	525.2	7062
MRL 380-7062/2-A	Lab Control Sample	Total/NA	Water	525.2	7062
380-4120-B-5-A MS	Matrix Spike	Total/NA	Water	525.2	7062
380-5326-H-1-A DU	Duplicate	Total/NA	Water	525.2	7062

Lab Chronicle

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

Job ID: 380-5328-1

Client Sample ID: HALAWA SHAFT VIEWING POOL

Lab Sample ID: 380-5328-1

Date Collected: 06/21/22 11:07

Matrix: Water

Date Received: 06/22/22 10:22

<u>Prep Type</u>	<u>Batch Type</u>	<u>Batch Method</u>	<u>Run</u>	<u>Dilution Factor</u>	<u>Batch Number</u>	<u>Analyst</u>	<u>Lab</u>	<u>Prepared or Analyzed</u>
Total/NA	Prep	525.2			7062	N8NE	EA MON	06/28/22 10:57
Total/NA	Analysis	525.2		1	7327	UJC9	EA MON	06/30/22 18:27

Laboratory References:

= EMAX Laboratories Inc, 3051 Fujita Street, Torrance, CA 90505

EA MON = Eurofins Eaton Monrovia, 750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016, TEL (626)386-1100



Accreditation/Certification Summary

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

Job ID: 380-5328-1

Laboratory: Eurofins Eaton Monrovia

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

Authority	Program	Identification Number	Expiration Date
Hawaii	State	CA00006	01-31-23

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	Water	2,4'-DDD
525.2	525.2	Water	2,4'-DDE
525.2	525.2	Water	2,4'-DDT
525.2	525.2	Water	2,4-Dinitrotoluene
525.2	525.2	Water	2,6-Dinitrotoluene
525.2	525.2	Water	4,4'-DDD
525.2	525.2	Water	4,4'-DDE
525.2	525.2	Water	4,4'-DDT
525.2	525.2	Water	Acenaphthene
525.2	525.2	Water	Acenaphthylene
525.2	525.2	Water	Acetochlor
525.2	525.2	Water	alpha-BHC
525.2	525.2	Water	alpha-Chlordane
525.2	525.2	Water	Anthracene
525.2	525.2	Water	Benz(a)anthracene
525.2	525.2	Water	Benzo[b]fluoranthene
525.2	525.2	Water	Benzo[g,h,i]perylene
525.2	525.2	Water	Benzo[k]fluoranthene
525.2	525.2	Water	beta-BHC
525.2	525.2	Water	Bromacil
525.2	525.2	Water	Butylbenzylphthalate
525.2	525.2	Water	Caffeine
525.2	525.2	Water	Chlorobenzilate
525.2	525.2	Water	Chloroneb
525.2	525.2	Water	Chlorothalonil (Draconil, Bravo)
525.2	525.2	Water	Chlorpyrifos
525.2	525.2	Water	Chrysene
525.2	525.2	Water	delta-BHC
525.2	525.2	Water	Diazinon (Qualitative)
525.2	525.2	Water	Dibenz(a,h)anthracene
525.2	525.2	Water	Diclorvos (DDVP)
525.2	525.2	Water	Diethylphthalate
525.2	525.2	Water	Dimethoate
525.2	525.2	Water	Dimethylphthalate
525.2	525.2	Water	Di-n-butyl phthalate
525.2	525.2	Water	Di-n-octyl phthalate
525.2	525.2	Water	Endosulfan I (Alpha)
525.2	525.2	Water	Endosulfan II (Beta)
525.2	525.2	Water	Endosulfan sulfate
525.2	525.2	Water	Endrin aldehyde
525.2	525.2	Water	EPTC
525.2	525.2	Water	Fluoranthene
525.2	525.2	Water	Fluorene
525.2	525.2	Water	gamma-Chlordane
525.2	525.2	Water	Indeno[1,2,3-cd]pyrene

Accreditation/Certification Summary

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

Job ID: 380-5328-1

Laboratory: Eurofins Eaton Monrovia (Continued)

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

Authority	Program	Identification Number	Expiration Date
-----------	---------	-----------------------	-----------------

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	Water	Isophorone
525.2	525.2	Water	Malathion
525.2	525.2	Water	Molinate
525.2	525.2	Water	Naphthalene
525.2	525.2	Water	Parathion
525.2	525.2	Water	Pendimethalin (Penoxaline)
525.2	525.2	Water	Phenanthrene
525.2	525.2	Water	Pyrene
525.2	525.2	Water	Terbacil
525.2	525.2	Water	Terbutylazine
525.2	525.2	Water	Thiobencarb
525.2	525.2	Water	Total Permethrin (mixed isomers)
525.2	525.2	Water	trans-Nonachlor
525.2	525.2	Water	Trifluralin

Method Summary

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

Job ID: 380-5328-1

Method	Method Description	Protocol	Laboratory
525.2	Semivolatile Organic Compounds (GC/MS)	EPA	EA MON
8015	8015 - TPH DRO/ORO	EPA	
8015B	SW846 8015B Gasoline Range Organics	SW846	
525.2	Extraction of Semivolatile Compounds	EPA	EA MON

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:

= EMAX Laboratories Inc, 3051 Fujita Street, Torrance, CA 90505

EA MON = Eurofins Eaton Monrovia, 750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016, TEL (626)386-1100

Sample Summary

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

Job ID: 380-5328-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
380-5328-1	HALAWA SHAFT VIEWING POOL	Water	06/21/22 11:07	06/22/22 10:22
380-5328-2	TB: HALAWA SHAFT VIEWING POOL	Water	06/21/22 11:07	06/22/22 10:22

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3051 Fujita Street
Torrance, CA 90505
Tel: (310)-618-8889

Date: 07-13-2022
EMAX Batch No.: 22F250B

Attn: Jackie Contreras

Eurofins Eaton Analytical
750 Royal Oaks Dr., Suite 100
Monrovia, CA 91016-3629

Subject: Laboratory Report
Project: 380-5328

Enclosed is the Laboratory report for samples received on 06/28/22.
The data reported relate only to samples listed below :

Sample ID	Control #	Col Date	Matrix	Analysis
380-5328-1	F250-11	06/21/22	WATER	TPH GASOLINE TPH DIESEL & MOTOR OIL
380-5328-2	F250-12	06/21/22	WATER	TPH GASOLINE

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning these results.

Sincerely yours,


Caspar J. Pang
Laboratory Director

This report is confidential and intended solely for the use of the individual or entity to whom it is addressed. This report shall not be reproduced except in full or without the written approval of EMAX.

EMAX certifies that results included in this report meets all TNI & DOD requirements unless noted in the Case Narrative.

NELAP Accredited Certificate Number CA002912022-22
ANAB Accredited DoD ELAP and ISO/IEC 17025 Certificate Number L2278 Testing
California ELAP Accredited Certificate Number 2672

Monrovia, CA (Suite 100)
 750 Royal Oaks Drive Suite 100
 Monrovia, CA 91016
 Phone: 626-386-1100

Chain of Custody Record



Environment Testing
 America



22F250B

Client Information (Sub Contract Lab)		Sampler:	Lab PM:	Carrier Tracking No(s):	GOC No:
Shipping/Receiving		Frank, Debbie L	Frank, Debbie L	380-9487-1	380-9487-1
Company: EMAX Laboratories Inc		E-Mail: Debbie.Frank@et.eurofins.us	State of Origin: Hawaii	Page: Page 1 of 1	Job #: 380-5328-1
Address: 3051 Fujita Street, Torrance, CA, 90505		Accreditations Required (See note): State - Hawaii	Analysis Requested		
Due Date Requested: 6/29/2022	TAT Requested (days):	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (8015 Gas (Purgeable) LL (EAL)) / 8015 Gas	SUB (8015 Diesel LL (EAL) and Motor Oil) / 8015 Diesel LL (EAL) and Motor Oil
PO #:	WO #:	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, BT=tissue, A=Air)
Project #: 38001111	SSOW#:	6/21/22	11:07 Hawaiian	Water	Water
Site: Honolulu EWS Sites		6/21/22	11:07 Hawaiian	Water	Water
Sample Identification - Client ID (Lab ID)		Special Instructions/Note:			
HALAWA SHAFT VIEWING POOL (380-5328-1)		See Attached Instructions			
TB: HALAWA SHAFT VIEWING POOL (380-5328-2)		See Attached Instructions			
Total Number of Containers		7			
Total Number of Containers		2			
<p>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.</p>					
Possible Hazard Identification					
Unconfirmed					
Deliverable Requested: I, II, III, IV, Other (specify)					
Primary Deliverable Rank: 2					
Empty Kit Relinquished by:					
Relinquished by: [Signature]					
Relinquished by: [Signature]					
Relinquished by: [Signature]					
<p>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</p> <p>Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months</p> <p>Special Instructions/QC Requirements:</p>					
Time: _____ Method of Shipment: _____					
Date/Time: 6/29/22 11:02 Company: Eurofins					
Date/Time: _____ Company: _____					
Date/Time: _____ Company: _____					
<p>REPORT ID: 22F250B No. _____</p> <p>Yes Δ No</p>					





Type of Delivery <input type="checkbox"/> Fedex <input type="checkbox"/> UPS <input type="checkbox"/> GSO <input type="checkbox"/> Others	Airbill / Tracking Number	ECN <u>22F250</u>
<input type="checkbox"/> EMAX Courier <input checked="" type="checkbox"/> Client Delivery		Recipient <u>Jhown Zamora</u>
		Date <u>06/20/22</u> Time <u>11:42</u>

COC INSPECTION

<input checked="" type="checkbox"/> Client Name	<input checked="" type="checkbox"/> Client PM/FC	<input type="checkbox"/> Sampler Name	<input checked="" type="checkbox"/> Sampling Date/Time	<input checked="" type="checkbox"/> Sample ID	<input checked="" type="checkbox"/> Matrix
<input checked="" type="checkbox"/> Address	<input type="checkbox"/> Tel # / Fax #	<input type="checkbox"/> Courier Signature	<input checked="" type="checkbox"/> Analysis Required	<input type="checkbox"/> Preservative (if any)	<input checked="" type="checkbox"/> TAT
Safety Issues (if any)	<input type="checkbox"/> High concentrations expected	<input type="checkbox"/> From Superfund Site	<input type="checkbox"/> Rad screening required		

Note: _____

PACKAGING INSPECTION

Container	<input checked="" type="checkbox"/> Cooler	<input type="checkbox"/> Box	<input type="checkbox"/> Other
Condition <u>correction</u>	<input type="checkbox"/> Custody Seal	<input type="checkbox"/> Intact	<input type="checkbox"/> Damaged
Packaging <u>factor - 0.5</u>	<input checked="" type="checkbox"/> Bubble Pack	<input type="checkbox"/> Styrofoam	<input type="checkbox"/> Popcorn
Temperatures (Cool, ≤6 °C but not frozen)	<input checked="" type="checkbox"/> Cooler 1 <u>3.4/5.9 °C</u>	<input checked="" type="checkbox"/> Cooler 2 <u>5.9/5.4 °C</u>	<input checked="" type="checkbox"/> Cooler 3 <u>5.4/5.3 °C</u>
Thermometer:	<input checked="" type="checkbox"/> Cooler 4 <u>5.2/4.7 °C</u>	<input type="checkbox"/> Cooler 5 _____ °C	<input checked="" type="checkbox"/> Cooler 6 <u>5.9/5.4 °C</u>
	<input checked="" type="checkbox"/> Cooler 7 _____ °C	<input type="checkbox"/> Cooler 8 _____ °C	<input type="checkbox"/> Cooler 9 _____ °C
	A - S/N <u>210583479</u>	B - S/N _____	C - S/N <u>210271399</u>
			D - S/N _____

Comments: Temperature is out of range. PM was informed IMMEDIATELY.

Note: _____

DISCREPANCIES

LabSampleID	LabSampleContainerID	Code	Client Sample Label ID / Information	Corrective Action
<u>1-10</u>		<u>D13</u>	<u>8015</u>	<u>NS</u>

pH holding time requirement for water samples is 15 mins. Water samples for pH analysis are received beyond 15 minutes from sampling time.

NOTES/OBSERVATIONS:

SAMPLE MATRIX IS DRINKING WATER? YES NO

- LEGEND:**
- | | | |
|---|--|--|
| <p>Code Description- Sample Management</p> <ul style="list-style-type: none"> D1 Analysis is not indicated in _____ D2 Analysis mismatch COC vs label D3 Sample ID mismatch COC vs label D4 Sample ID is not indicated in _____ D5 Container -[improper] [leaking] [broken] D6 Date/Time is not indicated in _____ D7 Date/Time mismatch COC vs label D8 Sample listed in COC is not received D9 Sample received is not listed in COC D10 No initial/date on corrections in COC/label D11 Container count mismatch COC vs received D12 Container size mismatch COC vs received | <p>Code Description-Sample Management</p> <ul style="list-style-type: none"> D13 Out of Holding Time D14 Bubble is >6mm D15 No trip blank in cooler D16 Preservation not indicated in _____ D17 Preservation mismatch COC vs label D18 Insufficient chemical preservative D19 Insufficient Sample D20 No filtration info for dissolved analysis D21 No sample for moisture determination D22 _____ D23 _____ D24 _____ | <p><input type="checkbox"/> Continue to next page.</p> <p>Code Description-Sample Management</p> <ul style="list-style-type: none"> R1 Proceed as indicated in <input type="checkbox"/> COC <input type="checkbox"/> Label R2 Refer to attached instruction R3 Cancel the analysis R4 Use vial with smallest bubble first R5 Log-in with latest sampling date and time+1 min R6 Adjust pH as necessary R7 Filter and preserve as necessary R8 <u>Informed client</u> R9 _____ R10 _____ R11 _____ R12 _____ |
|---|--|--|

REVIEWS:

Sample Labeling <u>Jocelyn Zamora</u>	SRF <u>[Signature]</u>	PM <u>NS</u>
Date <u>06/20/22</u>	Date <u>6/28/22</u>	Date <u>6/29/22</u>

REPORT ID: 22F250B

RE: Samples received past HT - J# 4236, 4493, 4494 6/15 (J5286) , 6/20 (J5326, 5332) 6/21 (5328, 5349), 6/22 (J5340)

Frank, Debbie <Debbie.Frank@et.eurofinsus.com>

Tue 6/28/2022 12:44 PM

To:

- Raman Singh <RSingh@emaxlabs.com>;
- Cecilia Chavez <CChavez@emaxlabs.com>;
- Richard Beauvil <RBeauvil@emaxlabs.com>;
- Ye Myint <YMyint@emaxlabs.com>;
- Diem T Nguyen <DNgyuen@emaxlabs.com>;
- Jim Carter <JCarter@emaxlabs.com>

22 FL50
1-10
Cancelled

Cc:

- Contreras, Jaclynn <Jaclyn.contreras@et.eurofinsus.com>;
- Arada, Rachelle <Rachelle.Arada@et.eurofinsus.com>;
- Haley, Davis <Davis.Haley@et.eurofinsus.com>;
- Dean, Robert <Robert.Dean@et.eurofinsus.com>;
- Walters, Colin <Colin.Walters@et.eurofinsus.com>;
- Hansen, Jeremy <Jeremy.Hansen@et.eurofinsus.com>;
- Marina Lyudmirskaya <MLyudmirskaya@emaxlabs.com>

6/20 (J5326, 5332) holding time expired yesterday - Please cancel

Let me know about the others. Thank you.

Sincerely,

DEB - Sr. PM EEA-Monrovia, CA

stay healthy and stay free!

+1 310-918-4308 m

Internal: *20 1149

Handwritten mark resembling a large '7' or a checkmark.

From: Raman Singh <RSingh@emaxlabs.com>

Sent: Tuesday, June 28, 2022 12:37 PM

To: Frank, Debbie <Debbie.Frank@et.eurofinsus.com>; Cecilia Chavez <CChavez@emaxlabs.com>; Richard Beauvil <RBeauvil@emaxlabs.com>; Ye Myint <YMyint@emaxlabs.com>; Diem T Nguyen <DNgyuen@emaxlabs.com>; Jim Carter <JCarter@emaxlabs.com>

Cc: Contreras, Jaclynn <Jaclyn.contreras@et.eurofinsus.com>; Arada, Rachelle <Rachelle.Arada@et.eurofinsus.com>; Haley, Davis <Davis.Haley@et.eurofinsus.com>; Dean, Robert <Robert.Dean@et.eurofinsus.com>; Walters, Colin <Colin.Walters@et.eurofinsus.com>; Hansen, Jeremy <Jeremy.Hansen@et.eurofinsus.com>; Marina Lyudmirskaya <MLyudmirskaya@emaxlabs.com>

Subject: RE: Samples received past HT - J# 4236, 4493, 4494 6/15 (J5286) , 6/20 (J5326, 5332) 6/21 (5328, 5349), 6/22 (J5340)

EXTERNAL EMAIL*

Debbie,

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REPORTING CONVENTIONS

DATA QUALIFIERS:

Lab Qualifier	AFCEE Qualifier	Description
J	F	Indicates that the analyte is positively identified and the result is less than RL but greater than MDL.
N		Indicates presumptive evidence of a compound.
B	B	Indicates that the analyte is found in the associated method blank as well as in the sample at above QC level.
E	J	Indicates that the result is above the maximum calibration range or estimated value.
*	*	Out of QC limit.

Note: The above qualifiers are used to flag the results unless the project requires a different set of qualification criteria.

ACRONYMS AND ABBREVIATIONS:

CRDL	Contract Required Detection Limit
RL	Reporting Limit
MRL	Method Reporting Limit
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
DO	Diluted out

DATES

The date and time information for leaching and preparation reflect the beginning date and time of the procedure unless the method, protocol, or project specifically requires otherwise.

LABORATORY REPORT FOR

EUROFINS EATON ANALYTICAL

380-5328

METHOD 5030B/8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

SDG#: 22F250B



CASE NARRATIVE

Client : EUROFINS EATON ANALYTICAL

Project: 380-5328

SDG : 22F250B

METHOD 5030B/8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

A total of two(2) water samples were received on 06/28/22 to be analyzed for Total Petroleum Hydrocarbons by Purge and Trap in accordance with Method 5030B/8015B and project specific requirements.

Holding Time

Samples were analyzed within the prescribed holding time.

Calibration

Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using a secondary source (ICV). Continuing calibration (CCV) verifications were carried out on a frequency specified by the project. All calibration requirements were within acceptance criteria. Refer to calibration summary forms of ICAL, ICV and CCV for details. MRL was analyzed as required by the project. Refer to MRL summary form for details.

Method Blank

Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one(1) method blank was analyzed. VG39F12B - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample

Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one(1) set of LCS/LCD was analyzed. VG39F12L/VG39F12C were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample

Matrix spike sample was prepared and analyzed at a frequency required by the project. For this SDG, one(1) set of MS/MSD was analyzed. Gasoline was within MS QC limits in F250-13M/F250-13S. Refer to Matrix QC summary form for details.

Surrogate

Surrogate was added on QC and field samples. All surrogate recoveries were within QC limits. Refer to sample result summary forms for details.

Sample Analysis

Samples were analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met.

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SAMPLE RESULTS

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QC SUMMARIES

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL
PROJECT : 380-5328
BATCH NO. : 22F250B
METHOD : 5030B/8015B

MATRIX : WATER		% MOISTURE:NA
DILUTION FACTOR: 1	1	1
SAMPLE ID : MBLK1W	LCS1W	LCD1W
LAB SAMPLE ID : VG39F12B	VG39F12L	VG39F12C
LAB FILE ID : EF28005A	EF28006A	EF28007A
DATE PREPARED : 06/28/22 14:59	06/28/22 15:34	06/28/22 16:10
DATE ANALYZED : 06/28/22 14:59	06/28/22 15:34	06/28/22 16:10
PREP BATCH : 22VG39F12	22VG39F12	22VG39F12
CALIBRATION REF: EF28004A	EF28004A	EF28004A

ACCESSION:

PARAMETERS	MBResult (mg/L)	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	SpikeAmt (mg/L)	LCDResult (mg/L)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Gasoline	ND	0.500	0.474	95	0.500	0.478	96	1	60-130	30

SURROGATE PARAMETER	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	SpikeAmt (mg/L)	LCDResult (mg/L)	LCDRec (%)	QCLimit (%)
Bromofluorobenzene	0.0400	0.0449	112	0.0400	0.0429	107	70-130

MB: Method Blank sample LCS: Lab Control Sample LCD: Lab Control Sample Duplicate

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL
PROJECT : 380-5340
BATCH NO. : 22F250C
METHOD : 5030B/8015B

MATRIX : WATER		% MOISTURE:NA
DILUTION FACTOR: 1	1	1
SAMPLE ID : 380-5340-1	380-5340-1MS	380-5340-1MSD
LAB SAMPLE ID : F250-13	F250-13M	F250-13S
LAB FILE ID : EF28012A	EF28013A	EF28014A
DATE PREPARED : 06/28/22 19:10	06/28/22 19:46	06/28/22 20:22
DATE ANALYZED : 06/28/22 19:10	06/28/22 19:46	06/28/22 20:22
PREP BATCH : 22VG39F12	22VG39F12	22VG39F12
CALIBRATION REF: EF28004A	EF28004A	EF28004A

ACCESSION:

PARAMETERS	PSResult (mg/L)	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Gasoline	ND	0.500	0.457	91	0.500	0.429	86	6	50-130	30

SURROGATE PARAMETER	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	QCLimit (%)
Bromofluorobenzene	0.0400	0.0423	106	0.0400	0.0435	109	60-140

PS: Parent Sample MS: Matrix Spike MSD: Matrix Spike Duplicate

LABORATORY REPORT FOR

EUROFINS EATON ANALYTICAL

380-5328

METHOD 3520C/8015B
PETROLEUM HYDROCARBONS BY EXTRACTION

SDG#: 22F250B



CASE NARRATIVE

Client : EUROFINS EATON ANALYTICAL

Project: 380-5328

SDG : 22F250B

METHOD 3520C/8015B
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

One(1) water sample was received on 06/28/22 to be analyzed for Total Petroleum Hydrocarbons by Extraction in accordance with Method 3520C/8015B and project specific requirements.

Holding Time

The sample was analyzed within the prescribed holding time.

Calibration

Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using a secondary source (ICV). Continuing calibration (CCV) verifications were carried out on a frequency specified by the project. All calibration requirements were within acceptance criteria. Refer to calibration summary forms of ICAL, ICV and CCV for details. MRL was analyzed as required by the project. Refer to MRL summary form for details.

Method Blank

Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one(1) method blank was analyzed. DSF029WB - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample

Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one(1) LCS was analyzed. Percent recovery for Diesel was within LCS QC limits in DSF029WL. Refer to LCS summary form for details.

Matrix QC Sample

No matrix QC sample was provided on this SDG.

Surrogate

Surrogates were added on QC and field samples. All surrogate recoveries were within QC limits. Refer to sample result summary forms for details.

Sample Analysis

The sample was analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met.

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SAMPLE RESULTS

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QC SUMMARIES

METHOD 3520C/8015B
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

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=====
Client      : EUROFINS EATON ANALYTICAL   Date Collected: 06/28/22 16:00
Project     : 380-5328                   Date Received: 06/28/22
Batch No.   : 22F250B                    Date Extracted: 06/28/22 16:00
Sample ID   : MBLK1W                     Date Analyzed: 06/29/22 18:22
Lab Samp ID : DSF029WB                   Dilution Factor: 1
Lab File ID : LF29014A                   Matrix: WATER
Ext Btch ID : 22DSF029W                  % Moisture: NA
Calib. Ref.: LF29004A                    Instrument ID: D5
=====

```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)	
Diesel	ND	0.025	0.012	
Motor Oil	ND	0.050	0.025	
SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	0.433	0.500	87	60-130
Hexacosane	0.120	0.125	96	60-130

Notes:
Parameter H-C Range
Diesel C10-C24
Motor Oil C24-C36
Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.
Sample Amount : 1000ml Final Volume : 5ml
Prepared by : POrreto Analyzed by : CMpang

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL
PROJECT : 380-5328
BATCH NO. : 22F250B
METHOD : 3520C/8015B

MATRIX : WATER % MOISTURE:NA
DILUTION FACTOR: 1 1
SAMPLE ID : MBLK1W LCS1W
LAB SAMPLE ID : DSF029WB DSF029WL
LAB FILE ID : LF29014A LF29015A
DATE PREPARED : 06/28/22 16:00 06/28/22 16:00
DATE ANALYZED : 06/29/22 18:22 06/29/22 18:40
PREP BATCH : 22DSF029W 22DSF029W
CALIBRATION REF: LF29004A LF29004A

ACCESSION:

PARAMETERS	MBResult (mg/L)	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	QCLimit (%)
Diesel	ND	2.50	2.47	99	50-130

SURROGATE PARAMETERS	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	QCLimit (%)
Bromobenzene	0.500	0.400	80	60-130
Hexacosane	0.125	0.128	102	60-130

MB: Method Blank sample LCS: Lab Control Sample

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL
PROJECT : 380-5340
BATCH NO. : 22F250C
METHOD : 3520C/8015B

MATRIX	: WATER		% MOISTURE:NA
DILUTION FACTOR:	1		1
SAMPLE ID	: 380-5340-1	380-5340-1MS	380-5340-1MSD
LAB SAMPLE ID	: 22F250-13	22F250-13M	22F250-13S
LAB FILE ID	: LF29023A	LF29024A	LF29025A
DATE PREPARED	: 06/28/22 16:00	06/28/22 16:00	06/28/22 16:00
DATE ANALYZED	: 06/29/22 21:08	06/29/22 21:27	06/29/22 21:45
PREP BATCH	: 22DSF029W	22DSF029W	22DSF029W
CALIBRATION REF:	LF29018A	LF29018A	LF29018A

ACCESSION:

PARAMETERS	PSResult (mg/L)	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Diesel	ND	2.60	2.51	97	2.60	2.59	100	3	50-130	30

SURROGATE PARAMETERS	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	QCLimit (%)
Bromobenzene	0.520	0.377	73	0.520	0.393	76	60-130
Hexacosane	0.130	0.140	108	0.130	0.142	109	60-130

PS: Parent Sample MS: Matrix Spike MSD: Matrix Spike Duplicate



Eurofins Analytical

INTERNAL CHAIN OF CUSTODY RECORD

EEA Folder Number:

SAMPLE TEMP RECEIVED:
 Note: If samples are out of temperature range, let the ASMs know, ASMs will determine whether to proceed with analysis or not.
SAMPLES RECEIVED DAY OF COLLECTION? Yes / No

IR Gun ID = 649A (Observation = 3.0 °C) (Corr. Factor = -0.3 °C) (Final = 2.7 °C)

TYPE OF ICE: Real Synthetic No Ice Partially Frozen Thawed N/A

METHOD OF SHIPMENT: Pick-Up / Walk-In / FedEx / UPS / DHL / Area Fast / Top Line / Other: _____

Compliance Acceptance Criteria: 7771 9119 4195

1) Chemistry: >0, ≤8°C, not frozen (NELAP) (if received after 24 hrs of sample collection)

2) Microbiology, Distribution: < 10°C, not frozen (can be ≥10°C if received on ice the same day as sample collection, within 8 hours)

3) Microbiology, Surface Water: < 10°C (if received after 2 hours of sample collection)

If out of temperature range for both Chemistry and Microbiology samples and temperature does not confirm, then measure the temperature of each quadrant and record each temperature of the quadrants

1 = Observation	°C	Corr/Factor	°C	Final	°C
2 = Observation	°C	Corr/Factor	°C	Final	°C
3 = Observation	°C	Corr/Factor	°C	Final	°C
4 = Observation	°C	Corr/Factor	°C	Final	°C

4 Dioxin (1613 or 2,3,7,8 TCDD): must be between 0-4 °C, not frozen (if received after 24 hrs of sample collection)

5) pH Check, Manufacturer: _____ Lot Number: _____ pH strip type: 0 - 14 or _____ Expiration Date: _____ Results: _____

6) Chlorine check, Manufacturer: Sansate, Lot No.: _____ Expiration Date: _____ Results: _____

7) VOA and Radon Headspace: No Samples with Headspace: Samples with Headspace (see below):

Headspace Documentation (use additional VOC and Radon Internal COFC for additional bottles)
 Methods: EPA 8154, HAA42251, 8521, 806, SPME @CH, 8321, 806, 858, 859, Anatoxin, LGMS methods using 40 ml vials, International elements

Samp ID	Bottle #	Nonal/CS	> 8mm	Test	Samp ID	Bottle #	Nonal/CS	> 8mm	Test	Samp ID	Bottle #	Nonal/CS	> 8mm	Test

Note Sample IDs which have dissimilar headspace (i.e. potential sampling errors): _____

RECEIVED BY: <u>ADJ</u>	SIGNATURE: <u>G. PENNER</u>	PRINT NAME: <u>G. PENNER</u>	DATE: <u>06/22/2022</u>	TIME: <u>10:22</u>
SAMPLES CHECKED AGAINST QOC BY: _____	SIGNATURE: _____	PRINT NAME: _____	DATE: _____	TIME: _____
COMPANY/TITLE: Eurofins Estion Analytical	COMPANY/TITLE: Eurofins Estion Analytical	DATE: _____	TIME: _____	TIME: _____



Kit Order for BOARD OF WATER SUPPLY, CITY AND COUNTY OF

Debbie L Frank is your Eurofins Eaton Analytical, LLC Service Manager

750 Royal Oaks Drive, Suite 100
 Monrovia, California 91016-3629
 (626) 386-1100 FAX (866) 988-3757

Created Date & Time: 4/27/2022 3:15:49PM

Note: Sampler Please return this paper with your samples

Kit #: 318557
 Created By: - [AutoGenerated]
 Deliver By: 05/04/2022
 STG: Bottle Orders
 Ice Type: W

Client ID: HONOLULU
 Project Code: RED-HILL Bottle Orders
 Group Name: Weekly TPH-8015_RED-HILL (2022) - EMAX
 PO#/JOB#: C20525101 exp 05312023
 Description: Every 1 week on Wed

Ship Sample Kits to
 Honolulu Board of Water Supply
 630 South Beretania Street
 Chemistry Lab.
 Honolulu, HI 96843
 Attr: Ron Fenstermacher
 Phone: 808-748-5841
 Fax: 808-550-5572

Send Report to
 Honolulu Board of Water Supply
 630 South Beretania Street
 Public Service Bldg " Room 308
 Honolulu, HI 96843
 Attr: Erwin Kawata
 Phone: 808-748-5091
 Fax: 808-550-5018

Billing Address
 Honolulu Board of Water Supply
 630 South Beretania Street
 Public Service Bldg " Room 308
 Honolulu, HI 96843
 Attr: Erwin Kawata
 Phone: 808-748-5091
 Fax: 808-550-5018

# of Sample Tests	Bottle Qty - Type [preservative information]	Total	UN DOT #
6	TPH 8015 Diesel and Motor Oil_C	18	
5	@525PLUS C PLUS TICs	10	UN1789
1	@525PLUS C PLUS TICs	3	UN1789
6	8015 Gas_C	24	
6	8015 Gas_C TB	12	
Sum Tests: 24		Sum Bottles: 67	

Comments
 WEEKLY SAMPLING

6/20/2022
 Moanalua Wells



Eurofins Analytical

INTERNAL CHAIN OF CUSTODY RECORD

EEA Folder Number:

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Headspace Documentation (use additional VOC and Radon Internal COFC for additional bottles)
 Methods: EPA 815.4, HAA4223.662, 806, SPME @CH, 832.0MG, 858, 859, Anatoxin, LGMS methods using 40 ml vials, International elements

Samp ID	Bottle #	Non/CS	>8mm	Test	Samp ID	Bottle #	Non/CS	>8mm	Test	Samp ID	Bottle #	Non/CS	>8mm	Test

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SAMPLES CHECKED AGAINST QOC BY: _____	SIGNATURE: _____	PRINT NAME: _____	DATE: _____	TIME: _____
COMPANY/TITLE: Eurofins Eston Analytical	COMPANY/TITLE: Eurofins Eston Analytical	DATE: _____	TIME: _____	TIME: _____



Kit Order for BOARD OF WATER SUPPLY, CITY AND COUNTY OF

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6	8015 Gas_C TB	12	
Sum Tests: 24		Sum Bottles: 67	

Comments
 WEEKLY SAMPLING

6/20/2022
 Moanalua Wells

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-5328-1

Login Number: 5328

List Number: 1

Creator: Ngo, Theodore

List Source: Eurofins Eaton Monrovia

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and 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	
Samples do not require splitting or compositing.	True	
Container provided by EEA	True	