

ANALYTICAL REPORT

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

Laboratory Job ID: 380-20762-1
Client Project/Site: RED-HILL

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:
9/30/2022 11:24:09 PM

Rachelle Arada, Manager of Project Management
(626)386-1106

Rachelle.Arada@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)



Rachelle Arada
Manager of Project Management
9/30/2022 11:24:09 PM

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Definitions/Glossary

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

Job ID: 380-20762-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
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.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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: 380-20762-1

Job ID: 380-20762-1

Laboratory: Eurofins Eaton Monrovia

Narrative

Job Narrative 380-20762-1

Comments

No additional comments.

Receipt

The samples were received on 9/13/2022 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.9° C.

GC/MS Semi VOA

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

Subcontract non-Sister

See attached subcontract report.

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.

Method 625 PAH Physis LL (EAL) + TICs: This method was subcontracted to Physis Environmental Laboratories. The subcontract laboratory certification is different from that of the facility issuing the final report.



Detection Summary

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

Job ID: 380-20762-1

Client Sample ID: HALAWA WELLS P1 (331-023-WL065)

Lab Sample ID: 380-20762-1

No Detections.

Client Sample ID: TB: HALAWA WELLS P1 (331-023-WL065)

Lab Sample ID: 380-20762-2

No Detections.

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This Detection Summary does not include radiochemical test results.

Eurofins Eaton Monrovia

Client Sample Results

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

Job ID: 380-20762-1

Client Sample ID: HALAWA WELLS P1 (331-023-WL065)

Lab Sample ID: 380-20762-1

Date Collected: 09/12/22 10:01

Matrix: Drinking Water

Date Received: 09/13/22 10:00

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND		0.098	ug/L		09/14/22 10:07	09/15/22 13:44	1
2,4'-DDE	ND		0.098	ug/L		09/14/22 10:07	09/15/22 13:44	1
2,4'-DDT	ND		0.098	ug/L		09/14/22 10:07	09/15/22 13:44	1
2,4-Dinitrotoluene	ND		0.098	ug/L		09/14/22 10:07	09/15/22 13:44	1
2,6-Dinitrotoluene	ND		0.098	ug/L		09/14/22 10:07	09/15/22 13:44	1
4,4'-DDD	ND		0.098	ug/L		09/14/22 10:07	09/15/22 13:44	1
4,4'-DDE	ND		0.098	ug/L		09/14/22 10:07	09/15/22 13:44	1
4,4'-DDT	ND		0.098	ug/L		09/14/22 10:07	09/15/22 13:44	1
Acenaphthene	ND		0.098	ug/L		09/14/22 10:07	09/15/22 13:44	1
Acenaphthylene	ND		0.098	ug/L		09/14/22 10:07	09/15/22 13:44	1
Acetochlor	ND		0.098	ug/L		09/14/22 10:07	09/15/22 13:44	1
Alachlor	ND		0.049	ug/L		09/14/22 10:07	09/15/22 13:44	1
alpha-BHC	ND		0.098	ug/L		09/14/22 10:07	09/15/22 13:44	1
alpha-Chlordane	ND		0.049	ug/L		09/14/22 10:07	09/15/22 13:44	1
Anthracene	ND		0.020	ug/L		09/14/22 10:07	09/15/22 13:44	1
Atrazine	ND		0.049	ug/L		09/14/22 10:07	09/15/22 13:44	1
Benz(a)anthracene	ND		0.049	ug/L		09/14/22 10:07	09/15/22 13:44	1
Benzo[a]pyrene	ND		0.020	ug/L		09/14/22 10:07	09/15/22 13:44	1
Benzo[b]fluoranthene	ND		0.020	ug/L		09/14/22 10:07	09/15/22 13:44	1
Benzo[g,h,i]perylene	ND		0.049	ug/L		09/14/22 10:07	09/15/22 13:44	1
Benzo[k]fluoranthene	ND		0.020	ug/L		09/14/22 10:07	09/15/22 13:44	1
beta-BHC	ND		0.098	ug/L		09/14/22 10:07	09/15/22 13:44	1
Bromacil	ND		0.098	ug/L		09/14/22 10:07	09/15/22 13:44	1
Butachlor	ND		0.049	ug/L		09/14/22 10:07	09/15/22 13:44	1
Butylbenzylphthalate	ND		0.49	ug/L		09/14/22 10:07	09/15/22 13:44	1
Caffeine	ND		0.049	ug/L		09/14/22 10:07	09/15/22 13:44	1
Chlorobenzilate	ND		0.098	ug/L		09/14/22 10:07	09/15/22 13:44	1
Chloroneb	ND		0.098	ug/L		09/14/22 10:07	09/15/22 13:44	1
Chlorothalonil (Draconil, Bravo)	ND		0.098	ug/L		09/14/22 10:07	09/15/22 13:44	1
Chlorpyrifos	ND		0.049	ug/L		09/14/22 10:07	09/15/22 13:44	1
Chrysene	ND		0.020	ug/L		09/14/22 10:07	09/15/22 13:44	1
delta-BHC	ND		0.098	ug/L		09/14/22 10:07	09/15/22 13:44	1
Di(2-ethylhexyl)adipate	ND		0.59	ug/L		09/14/22 10:07	09/15/22 13:44	1
Bis(2-ethylhexyl) ph halate	ND		0.59	ug/L		09/14/22 10:07	09/15/22 13:44	1
Diazinon (Qualitative)	ND		0.098	ug/L		09/14/22 10:07	09/15/22 13:44	1
Dibenz(a,h)anthracene	ND		0.049	ug/L		09/14/22 10:07	09/15/22 13:44	1
Diclorvos (DDVP)	ND		0.049	ug/L		09/14/22 10:07	09/15/22 13:44	1
Dieldrin	ND		0.20	ug/L		09/14/22 10:07	09/15/22 13:44	1
Die hylphthalate	ND		0.49	ug/L		09/14/22 10:07	09/15/22 13:44	1
Dimethoate	ND		0.098	ug/L		09/14/22 10:07	09/15/22 13:44	1
Dimethylphthalate	ND		0.49	ug/L		09/14/22 10:07	09/15/22 13:44	1
Di-n-butyl phthalate	ND		0.98	ug/L		09/14/22 10:07	09/15/22 13:44	1
Di-n-octyl phthalate	ND		0.098	ug/L		09/14/22 10:07	09/15/22 13:44	1
Endosulfan I (Alpha)	ND		0.098	ug/L		09/14/22 10:07	09/15/22 13:44	1
Endosulfan II (Beta)	ND		0.098	ug/L		09/14/22 10:07	09/15/22 13:44	1
Endosulfan sulfate	ND		0.098	ug/L		09/14/22 10:07	09/15/22 13:44	1
Endrin	ND		0.098	ug/L		09/14/22 10:07	09/15/22 13:44	1
Endrin aldehyde	ND		0.098	ug/L		09/14/22 10:07	09/15/22 13:44	1
EPTC	ND		0.098	ug/L		09/14/22 10:07	09/15/22 13:44	1

Euofins Eaton Monrovia

Client Sample Results

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

Job ID: 380-20762-1

Client Sample ID: HALAWA WELLS P1 (331-023-WL065)

Lab Sample ID: 380-20762-1

Date Collected: 09/12/22 10:01

Matrix: Drinking Water

Date Received: 09/13/22 10:00

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND		0.098	ug/L		09/14/22 10:07	09/15/22 13:44	1
Fluorene	ND		0.049	ug/L		09/14/22 10:07	09/15/22 13:44	1
gamma-Chlordane	ND		0.049	ug/L		09/14/22 10:07	09/15/22 13:44	1
Heptachlor	ND		0.039	ug/L		09/14/22 10:07	09/15/22 13:44	1
Heptachlor epoxide (isomer B)	ND		0.049	ug/L		09/14/22 10:07	09/15/22 13:44	1
Hexachlorobenzene	ND		0.049	ug/L		09/14/22 10:07	09/15/22 13:44	1
Hexachlorocyclopentadiene	ND		0.049	ug/L		09/14/22 10:07	09/15/22 13:44	1
Indeno[1,2,3-cd]pyrene	ND		0.049	ug/L		09/14/22 10:07	09/15/22 13:44	1
Isophorone	ND		0.49	ug/L		09/14/22 10:07	09/15/22 13:44	1
Lindane	ND		0.039	ug/L		09/14/22 10:07	09/15/22 13:44	1
Malathion	ND		0.098	ug/L		09/14/22 10:07	09/15/22 13:44	1
Methoxychlor	ND		0.098	ug/L		09/14/22 10:07	09/15/22 13:44	1
Metolachlor	ND		0.049	ug/L		09/14/22 10:07	09/15/22 13:44	1
Metribuzin	ND		0.049	ug/L		09/14/22 10:07	09/15/22 13:44	1
Molinate	ND		0.098	ug/L		09/14/22 10:07	09/15/22 13:44	1
Naphthalene	ND		0.29	ug/L		09/14/22 10:07	09/15/22 13:44	1
Parathion	ND		0.098	ug/L		09/14/22 10:07	09/15/22 13:44	1
Pendimethalin (Penoxaline)	ND		0.098	ug/L		09/14/22 10:07	09/15/22 13:44	1
Total Permethrin (mixed isomers)	ND		0.20	ug/L		09/14/22 10:07	09/15/22 13:44	1
Phenanthrene	ND		0.039	ug/L		09/14/22 10:07	09/15/22 13:44	1
Propachlor	ND		0.049	ug/L		09/14/22 10:07	09/15/22 13:44	1
Pyrene	ND		0.049	ug/L		09/14/22 10:07	09/15/22 13:44	1
Simazine	ND		0.049	ug/L		09/14/22 10:07	09/15/22 13:44	1
Terbacil	ND		0.098	ug/L		09/14/22 10:07	09/15/22 13:44	1
Terbutylazine	ND		0.098	ug/L		09/14/22 10:07	09/15/22 13:44	1
Thiobencarb	ND		0.20	ug/L		09/14/22 10:07	09/15/22 13:44	1
trans-Nonachlor	ND		0.049	ug/L		09/14/22 10:07	09/15/22 13:44	1
Trifluralin	ND		0.098	ug/L		09/14/22 10:07	09/15/22 13:44	1
1-Methylnaphthalene	ND		0.098	ug/L		09/14/22 10:07	09/15/22 13:44	1
2-Methylnaphthalene	ND		0.098	ug/L		09/14/22 10:07	09/15/22 13:44	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L				09/14/22 10:07	09/15/22 13:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	93		70 - 130	09/14/22 10:07	09/15/22 13:44	1
Triphenylphosphate	104		70 - 130	09/14/22 10:07	09/15/22 13:44	1
Perylene-d12	96		70 - 130	09/14/22 10:07	09/15/22 13:44	1

Action Limit Summary

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

Job ID: 380-20762-1

Client Sample ID: HALAWA WELLS P1 (331-023-WL065)

Lab Sample ID: 380-20762-1

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	0.020	525.2	Total/NA
Di(2-ethylhexyl)adipate	ND		ug/L	400	0.59	525.2	Total/NA
Bis(2-ethylhexyl) phthalate	ND		ug/L	6	0.59	525.2	Total/NA
Endrin	ND		ug/L	2	0.098	525.2	Total/NA
Heptachlor	ND		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	0.098	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: 380-20762-1

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

Matrix: Drinking Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		2NMX (70-130)	TPP (70-130)	PRY (70-130)
380-20762-1	HALAWA WELLS P1 (331-023-WL0	93	104	96

Surrogate Legend

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

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		2NMX (70-130)	TPP (70-130)	PRY (70-130)
380-20830-J-2-A DU	Duplicate	91	93	93
380-20830-J-3-A MS	Matrix Spike	95	105	93
LCS 380-17302/3-A	Lab Control Sample	94	104	95
LCSD 380-17302/4-A	Lab Control Sample Dup	95	98	94
MB 380-17302/1-A	Method Blank	91	98	92
MRL 380-17302/2-A	Lab Control Sample	94	97	89

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: 380-20762-1

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

Lab Sample ID: MB 380-17302/1-A
Matrix: Water
Analysis Batch: 17480

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 17302

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
2,4'-DDD	ND		0.098	ug/L		09/14/22 10:07	09/15/22 13:12	1
2,4'-DDE	ND		0.098	ug/L		09/14/22 10:07	09/15/22 13:12	1
2,4'-DDT	ND		0.098	ug/L		09/14/22 10:07	09/15/22 13:12	1
2,4-Dinitrotoluene	ND		0.098	ug/L		09/14/22 10:07	09/15/22 13:12	1
2,6-Dinitrotoluene	ND		0.098	ug/L		09/14/22 10:07	09/15/22 13:12	1
4,4'-DDD	ND		0.098	ug/L		09/14/22 10:07	09/15/22 13:12	1
4,4'-DDE	ND		0.098	ug/L		09/14/22 10:07	09/15/22 13:12	1
4,4'-DDT	ND		0.098	ug/L		09/14/22 10:07	09/15/22 13:12	1
Acenaphthene	ND		0.098	ug/L		09/14/22 10:07	09/15/22 13:12	1
Acenaphthylene	ND		0.098	ug/L		09/14/22 10:07	09/15/22 13:12	1
Acetochlor	ND		0.098	ug/L		09/14/22 10:07	09/15/22 13:12	1
Alachlor	ND		0.049	ug/L		09/14/22 10:07	09/15/22 13:12	1
alpha-BHC	ND		0.098	ug/L		09/14/22 10:07	09/15/22 13:12	1
alpha-Chlordane	ND		0.049	ug/L		09/14/22 10:07	09/15/22 13:12	1
Anthracene	ND		0.020	ug/L		09/14/22 10:07	09/15/22 13:12	1
Atrazine	ND		0.049	ug/L		09/14/22 10:07	09/15/22 13:12	1
Benz(a)anthracene	ND		0.049	ug/L		09/14/22 10:07	09/15/22 13:12	1
Benzo[a]pyrene	ND		0.020	ug/L		09/14/22 10:07	09/15/22 13:12	1
Benzo[b]fluoranthene	ND		0.020	ug/L		09/14/22 10:07	09/15/22 13:12	1
Benzo[g,h,i]perylene	ND		0.049	ug/L		09/14/22 10:07	09/15/22 13:12	1
Benzo[k]fluoranthene	ND		0.020	ug/L		09/14/22 10:07	09/15/22 13:12	1
beta-BHC	ND		0.098	ug/L		09/14/22 10:07	09/15/22 13:12	1
Bromacil	ND		0.098	ug/L		09/14/22 10:07	09/15/22 13:12	1
Butachlor	ND		0.049	ug/L		09/14/22 10:07	09/15/22 13:12	1
Butylbenzylphthalate	ND		0.49	ug/L		09/14/22 10:07	09/15/22 13:12	1
Caffeine	ND		0.049	ug/L		09/14/22 10:07	09/15/22 13:12	1
Chlorobenzilate	ND		0.098	ug/L		09/14/22 10:07	09/15/22 13:12	1
Chloroneb	ND		0.098	ug/L		09/14/22 10:07	09/15/22 13:12	1
Chlorothalonil (Draconil, Bravo)	ND		0.098	ug/L		09/14/22 10:07	09/15/22 13:12	1
Chlorpyrifos	ND		0.049	ug/L		09/14/22 10:07	09/15/22 13:12	1
Chrysene	ND		0.020	ug/L		09/14/22 10:07	09/15/22 13:12	1
delta-BHC	ND		0.098	ug/L		09/14/22 10:07	09/15/22 13:12	1
Di(2-ethylhexyl)adipate	ND		0.59	ug/L		09/14/22 10:07	09/15/22 13:12	1
Bis(2-ethylhexyl) phthalate	ND		0.59	ug/L		09/14/22 10:07	09/15/22 13:12	1
Diazinon (Qualitative)	ND		0.098	ug/L		09/14/22 10:07	09/15/22 13:12	1
Dibenz(a,h)an hracene	ND		0.049	ug/L		09/14/22 10:07	09/15/22 13:12	1
Diclorvos (DDVP)	ND		0.049	ug/L		09/14/22 10:07	09/15/22 13:12	1
Dieldrin	ND		0.20	ug/L		09/14/22 10:07	09/15/22 13:12	1
Diethylphthalate	ND		0.49	ug/L		09/14/22 10:07	09/15/22 13:12	1
Dimethoate	ND		0.098	ug/L		09/14/22 10:07	09/15/22 13:12	1
Dimethylph halate	ND		0.49	ug/L		09/14/22 10:07	09/15/22 13:12	1
Di-n-butyl phthalate	ND		0.98	ug/L		09/14/22 10:07	09/15/22 13:12	1
Di-n-octyl phthalate	ND		0.098	ug/L		09/14/22 10:07	09/15/22 13:12	1
Endosulfan I (Alpha)	ND		0.098	ug/L		09/14/22 10:07	09/15/22 13:12	1
Endosulfan II (Beta)	ND		0.098	ug/L		09/14/22 10:07	09/15/22 13:12	1
Endosulfan sulfate	ND		0.098	ug/L		09/14/22 10:07	09/15/22 13:12	1
Endrin	ND		0.098	ug/L		09/14/22 10:07	09/15/22 13:12	1
Endrin aldehyde	ND		0.098	ug/L		09/14/22 10:07	09/15/22 13:12	1

Euofins Eaton Monrovia

QC Sample Results

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

Job ID: 380-20762-1

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

Lab Sample ID: MB 380-17302/1-A

Matrix: Water

Analysis Batch: 17480

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 17302

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
EPTC	ND		0.098	ug/L		09/14/22 10:07	09/15/22 13:12	1
Fluoranthene	ND		0.098	ug/L		09/14/22 10:07	09/15/22 13:12	1
Fluorene	ND		0.049	ug/L		09/14/22 10:07	09/15/22 13:12	1
gamma-Chlordane	ND		0.049	ug/L		09/14/22 10:07	09/15/22 13:12	1
Heptachlor	ND		0.039	ug/L		09/14/22 10:07	09/15/22 13:12	1
Heptachlor epoxide (isomer B)	ND		0.049	ug/L		09/14/22 10:07	09/15/22 13:12	1
Hexachlorobenzene	ND		0.049	ug/L		09/14/22 10:07	09/15/22 13:12	1
Hexachlorocyclopentadiene	ND		0.049	ug/L		09/14/22 10:07	09/15/22 13:12	1
Indeno[1,2,3-cd]pyrene	ND		0.049	ug/L		09/14/22 10:07	09/15/22 13:12	1
Isophorone	ND		0.49	ug/L		09/14/22 10:07	09/15/22 13:12	1
Lindane	ND		0.039	ug/L		09/14/22 10:07	09/15/22 13:12	1
Malathion	ND		0.098	ug/L		09/14/22 10:07	09/15/22 13:12	1
Methoxychlor	ND		0.098	ug/L		09/14/22 10:07	09/15/22 13:12	1
Metolachlor	ND		0.049	ug/L		09/14/22 10:07	09/15/22 13:12	1
Metribuzin	ND		0.049	ug/L		09/14/22 10:07	09/15/22 13:12	1
Molinate	ND		0.098	ug/L		09/14/22 10:07	09/15/22 13:12	1
Naphthalene	ND		0.29	ug/L		09/14/22 10:07	09/15/22 13:12	1
Parathion	ND		0.098	ug/L		09/14/22 10:07	09/15/22 13:12	1
Pendimethalin (Penoxaline)	ND		0.098	ug/L		09/14/22 10:07	09/15/22 13:12	1
Total Permethrin (mixed isomers)	ND		0.20	ug/L		09/14/22 10:07	09/15/22 13:12	1
Phenanthrene	ND		0.039	ug/L		09/14/22 10:07	09/15/22 13:12	1
Propachlor	ND		0.049	ug/L		09/14/22 10:07	09/15/22 13:12	1
Pyrene	ND		0.049	ug/L		09/14/22 10:07	09/15/22 13:12	1
Simazine	ND		0.049	ug/L		09/14/22 10:07	09/15/22 13:12	1
Terbacil	ND		0.098	ug/L		09/14/22 10:07	09/15/22 13:12	1
Terbutylazine	ND		0.098	ug/L		09/14/22 10:07	09/15/22 13:12	1
Thiobencarb	ND		0.20	ug/L		09/14/22 10:07	09/15/22 13:12	1
trans-Nonachlor	ND		0.049	ug/L		09/14/22 10:07	09/15/22 13:12	1
Trifluralin	ND		0.098	ug/L		09/14/22 10:07	09/15/22 13:12	1
1-Methylnaphthalene	ND		0.098	ug/L		09/14/22 10:07	09/15/22 13:12	1
2-Methylnaphthalene	ND		0.098	ug/L		09/14/22 10:07	09/15/22 13:12	1

Tentatively Identified Compound	MB	MB	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
	Est. Result	Qualifier							
Tentatively Identified Compound	None		ug/L				09/14/22 10:07	09/15/22 13:12	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Nitro-m-xylene	91		70 - 130	09/14/22 10:07	09/15/22 13:12	1
Triphenylphosphate	98		70 - 130	09/14/22 10:07	09/15/22 13:12	1
Perylene-d12	92		70 - 130	09/14/22 10:07	09/15/22 13:12	1

Lab Sample ID: LCS 380-17302/3-A

Matrix: Water

Analysis Batch: 17480

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 17302

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
2,4'-DDD	1.96	2.02		ug/L		103	70 - 130
2,4'-DDE	1.96	2.01		ug/L		103	70 - 130
2,4'-DDT	1.96	2.36		ug/L		120	70 - 130

Euofins Eaton Monrovia

QC Sample Results

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

Job ID: 380-20762-1

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

Lab Sample ID: LCS 380-17302/3-A

Matrix: Water

Analysis Batch: 17480

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 17302

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec Limits
	Added	Result	Qualifier				
2,4-Dinitrotoluene	1.96	1.63		ug/L		83	70 - 130
2,6-Dinitrotoluene	1.96	1.56		ug/L		79	70 - 130
4,4'-DDD	1.96	2.22		ug/L		113	70 - 130
4,4'-DDE	1.96	2.13		ug/L		109	70 - 130
4,4'-DDT	1.96	2.13		ug/L		109	70 - 130
Acenaphthene	1.96	1.75		ug/L		89	70 - 130
Acenaphthylene	1.96	1.88		ug/L		96	70 - 130
Acetochlor	1.96	1.86		ug/L		95	70 - 130
Alachlor	1.96	1.99		ug/L		101	70 - 130
alpha-BHC	1.96	1.95		ug/L		99	70 - 130
alpha-Chlordane	1.96	1.65		ug/L		84	70 - 130
Anthracene	1.96	1.94		ug/L		99	70 - 130
Atrazine	1.96	2.08		ug/L		106	70 - 130
Benz(a)anthracene	1.96	2.21		ug/L		113	70 - 130
Benzo[a]pyrene	1.96	2.14		ug/L		109	70 - 130
Benzo[b]fluoranthene	1.96	2.04		ug/L		104	70 - 130
Benzo[g,h,i]perylene	1.96	1.98		ug/L		101	70 - 130
Benzo[k]fluoranthene	1.96	2.26		ug/L		115	70 - 130
beta-BHC	1.96	1.99		ug/L		102	70 - 130
Bromacil	1.96	2.54		ug/L		129	70 - 130
Butachlor	1.96	2.07		ug/L		106	70 - 130
Butylbenzylphthalate	1.96	2.11		ug/L		107	70 - 130
Caffeine	1.96	1.34		ug/L		68	45 - 137
Chlorobenzilate	1.96	2.19		ug/L		111	70 - 130
Chloroneb	1.96	2.18		ug/L		111	70 - 130
Chlorothalonil (Draconil, Bravo)	1.96	2.16		ug/L		110	70 - 130
Chlorpyrifos	1.96	2.25		ug/L		115	70 - 130
Chrysene	1.96	2.28		ug/L		116	70 - 130
delta-BHC	1.96	1.96		ug/L		100	70 - 130
Di(2-ethylhexyl)adipate	1.96	2.04		ug/L		104	70 - 130
Bis(2-ethylhexyl) phthalate	1.96	1.93		ug/L		98	70 - 130
Diazinon (Qualitative)	1.96	1.84		ug/L		94	15 - 132
Dibenz(a,h)anthracene	1.96	2.06		ug/L		105	70 - 130
Diclorvos (DDVP)	1.96	2.15		ug/L		110	70 - 130
Dieldrin	1.96	2.13		ug/L		108	70 - 130
Diethylphthalate	1.96	1.89		ug/L		96	70 - 130
Dimethoate	1.96	0.904		ug/L		46	35 - 100
Dimethylphthalate	1.96	1.88		ug/L		96	70 - 130
Di-n-butyl phthalate	3.92	4.38		ug/L		112	70 - 130
Di-n-octyl phthalate	1.96	1.83		ug/L		93	70 - 130
Endosulfan I (Alpha)	1.96	2.12		ug/L		108	70 - 130
Endosulfan II (Beta)	1.96	2.25		ug/L		115	70 - 130
Endosulfan sulfate	1.96	2.19		ug/L		112	70 - 130
Endrin	1.96	2.01		ug/L		103	70 - 130
Endrin aldehyde	1.96	2.09		ug/L		106	70 - 130
EPTC	1.96	1.96		ug/L		100	70 - 130
Fluoranthene	1.96	2.18		ug/L		111	70 - 130
Fluorene	1.96	1.91		ug/L		97	70 - 130
gamma-Chlordane	1.96	1.73		ug/L		88	70 - 130

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QC Sample Results

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

Job ID: 380-20762-1

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

Lab Sample ID: LCS 380-17302/3-A

Matrix: Water

Analysis Batch: 17480

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 17302

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
Heptachlor	1.96	2.06		ug/L		105	70 - 130	
Heptachlor epoxide (isomer B)	1.96	1.71		ug/L		87	70 - 130	
Hexachlorobenzene	1.96	1.99		ug/L		101	70 - 130	
Hexachlorocyclopentadiene	1.96	2.17		ug/L		111	70 - 130	
Indeno[1,2,3-cd]pyrene	1.96	2.05		ug/L		105	70 - 130	
Isophorone	1.96	1.85		ug/L		94	70 - 130	
Lindane	1.96	2.00		ug/L		102	70 - 130	
Malathion	1.96	2.17		ug/L		111	70 - 130	
Methoxychlor	1.96	2.33		ug/L		119	70 - 130	
Metolachlor	1.96	2.14		ug/L		109	70 - 130	
Metribuzin	1.96	2.07		ug/L		105	70 - 130	
Molinate	1.96	2.05		ug/L		105	70 - 130	
Naphthalene	1.96	1.90		ug/L		97	70 - 130	
Parathion	1.96	2.17		ug/L		111	70 - 130	
Pendimethalin (Penoxaline)	1.96	2.16		ug/L		110	70 - 130	
Phenanthrene	1.96	1.91		ug/L		97	70 - 130	
Propachlor	1.96	2.15		ug/L		109	70 - 130	
Pyrene	1.96	2.23		ug/L		113	70 - 130	
Simazine	1.96	2.30		ug/L		117	70 - 130	
Terbacil	1.96	2.09		ug/L		107	70 - 130	
Terbuthylazine	1.96	2.06		ug/L		105	70 - 130	
Thiobencarb	1.96	1.89		ug/L		97	70 - 130	
trans-Nonachlor	1.96	2.07		ug/L		106	70 - 130	
Trifluralin	1.96	1.96		ug/L		100	70 - 130	
1-Methylnaphthalene	1.96	1.93		ug/L		98	70 - 130	
2-Methylnaphthalene	1.96	1.92		ug/L		98	70 - 130	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	94		70 - 130
Triphenylphosphate	104		70 - 130
Perylene-d12	95		70 - 130

Lab Sample ID: LCSD 380-17302/4-A

Matrix: Water

Analysis Batch: 17480

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 17302

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	
							Limits		RPD	Limit
2,4'-DDD	1.96	2.09		ug/L		107	70 - 130	3	20	
2,4'-DDE	1.96	2.04		ug/L		104	70 - 130	1	20	
2,4'-DDT	1.96	2.36		ug/L		120	70 - 130	0	20	
2,4-Dinitrotoluene	1.96	1.57		ug/L		80	70 - 130	3	20	
2,6-Dinitrotoluene	1.96	1.51		ug/L		77	70 - 130	3	20	
4,4'-DDD	1.96	2.30		ug/L		117	70 - 130	3	20	
4,4'-DDE	1.96	2.15		ug/L		109	70 - 130	1	20	
4,4'-DDT	1.96	2.06		ug/L		105	70 - 130	3	20	
Acenaphthene	1.96	1.74		ug/L		89	70 - 130	1	20	
Acenaphthylene	1.96	1.83		ug/L		93	70 - 130	2	20	
Acetochlor	1.96	1.78		ug/L		91	70 - 130	4	20	

Euofins Eaton Monrovia

QC Sample Results

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

Job ID: 380-20762-1

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

Lab Sample ID: LCSD 380-17302/4-A

Matrix: Water

Analysis Batch: 17480

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 17302

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	RPD Limit
							Limits	RPD		
Alachlor	1.96	1.89		ug/L		96	70 - 130	5	20	
alpha-BHC	1.96	1.91		ug/L		97	70 - 130	2	20	
alpha-Chlordane	1.96	1.52		ug/L		77	70 - 130	8	20	
Anthracene	1.96	1.90		ug/L		97	70 - 130	2	20	
Atrazine	1.96	1.97		ug/L		100	70 - 130	6	20	
Benz(a)anthracene	1.96	2.15		ug/L		110	70 - 130	3	20	
Benzo[a]pyrene	1.96	2.08		ug/L		106	70 - 130	3	20	
Benzo[b]fluoranthene	1.96	2.04		ug/L		104	70 - 130	0	20	
Benzo[g,h,i]perylene	1.96	1.97		ug/L		100	70 - 130	0	20	
Benzo[k]fluoranthene	1.96	2.15		ug/L		110	70 - 130	5	20	
beta-BHC	1.96	1.90		ug/L		97	70 - 130	5	20	
Bromacil	1.96	2.46		ug/L		126	70 - 130	3	20	
Butachlor	1.96	2.04		ug/L		104	70 - 130	1	20	
Butylbenzylphthalate	1.96	2.06		ug/L		105	70 - 130	2	20	
Caffeine	1.96	1.37		ug/L		70	45 - 137	3	20	
Chlorobenzilate	1.96	2.18		ug/L		111	70 - 130	0	20	
Chloroneb	1.96	2.15		ug/L		110	70 - 130	1	20	
Chlorothalonil (Draconil, Bravo)	1.96	2.22		ug/L		113	70 - 130	3	20	
Chlorpyrifos	1.96	2.22		ug/L		113	70 - 130	1	20	
Chrysene	1.96	2.32		ug/L		118	70 - 130	2	20	
delta-BHC	1.96	1.90		ug/L		97	70 - 130	3	20	
Di(2-ethylhexyl)adipate	1.96	2.03		ug/L		104	70 - 130	0	20	
Bis(2-ethylhexyl) phthalate	1.96	1.96		ug/L		100	70 - 130	2	20	
Diazinon (Qualitative)	1.96	1.80		ug/L		92	15 - 132	2	20	
Dibenz(a,h)an hracene	1.96	2.07		ug/L		105	70 - 130	0	20	
Diclorvos (DDVP)	1.96	2.10		ug/L		107	70 - 130	2	20	
Dieldrin	1.96	2.16		ug/L		110	70 - 130	2	20	
Diethylphthalate	1.96	1.84		ug/L		94	70 - 130	3	20	
Dimethoate	1.96	0.899		ug/L		46	35 - 100	1	20	
Dimethylphalate	1.96	1.83		ug/L		93	70 - 130	2	20	
Di-n-butyl phthalate	3.93	4.33		ug/L		110	70 - 130	1	20	
Di-n-octyl phthalate	1.96	1.83		ug/L		93	70 - 130	0	20	
Endosulfan I (Alpha)	1.96	2.08		ug/L		106	70 - 130	2	20	
Endosulfan II (Beta)	1.96	2.26		ug/L		115	70 - 130	1	20	
Endosulfan sulfate	1.96	2.24		ug/L		114	70 - 130	2	20	
Endrin	1.96	1.92		ug/L		98	70 - 130	5	20	
Endrin aldehyde	1.96	2.01		ug/L		102	70 - 130	4	20	
EPTC	1.96	1.95		ug/L		99	70 - 130	1	20	
Fluoranthene	1.96	2.16		ug/L		110	70 - 130	1	20	
Fluorene	1.96	1.86		ug/L		95	70 - 130	3	20	
gamma-Chlordane	1.96	1.67		ug/L		85	70 - 130	3	20	
Heptachlor	1.96	2.08		ug/L		106	70 - 130	1	20	
Heptachlor epoxide (isomer B)	1.96	1.68		ug/L		86	70 - 130	2	20	
Hexachlorobenzene	1.96	1.97		ug/L		100	70 - 130	1	20	
Hexachlorocyclopentadiene	1.96	2.16		ug/L		110	70 - 130	0	20	
Indeno[1,2,3-cd]pyrene	1.96	2.01		ug/L		103	70 - 130	2	20	
Isophorone	1.96	1.86		ug/L		95	70 - 130	1	20	
Lindane	1.96	2.00		ug/L		102	70 - 130	0	20	
Malathion	1.96	2.12		ug/L		108	70 - 130	2	20	

Eurofins Eaton Monrovia

QC Sample Results

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

Job ID: 380-20762-1

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

Lab Sample ID: LCSD 380-17302/4-A

Matrix: Water

Analysis Batch: 17480

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 17302

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	RPD Limit
							Limits	RPD		
Methoxychlor	1.96	2.34		ug/L		119	70 - 130	0	20	
Metolachlor	1.96	2.15		ug/L		109	70 - 130	0	20	
Metribuzin	1.96	1.96		ug/L		100	70 - 130	5	20	
Molinate	1.96	2.02		ug/L		103	70 - 130	2	20	
Naphthalene	1.96	1.90		ug/L		97	70 - 130	0	20	
Parathion	1.96	2.18		ug/L		111	70 - 130	0	20	
Pendimethalin (Penoxaline)	1.96	2.12		ug/L		108	70 - 130	2	20	
Phenanthrene	1.96	1.89		ug/L		96	70 - 130	1	20	
Propachlor	1.96	2.14		ug/L		109	70 - 130	0	20	
Pyrene	1.96	2.25		ug/L		114	70 - 130	1	20	
Simazine	1.96	2.16		ug/L		110	70 - 130	6	20	
Terbacil	1.96	2.08		ug/L		106	70 - 130	1	20	
Terbutylazine	1.96	1.99		ug/L		102	70 - 130	3	20	
Thiobencarb	1.96	1.95		ug/L		99	70 - 130	3	20	
trans-Nonachlor	1.96	2.01		ug/L		103	70 - 130	3	20	
Trifluralin	1.96	2.00		ug/L		102	70 - 130	2	20	
1-Methylnaphthalene	1.96	1.89		ug/L		96	70 - 130	2	20	
2-Methylnaphthalene	1.96	1.90		ug/L		97	70 - 130	1	20	

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	95		70 - 130
Triphenylphosphate	98		70 - 130
Perylene-d12	94		70 - 130

Lab Sample ID: MRL 380-17302/2-A

Matrix: Water

Analysis Batch: 17480

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 17302

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec	
							Limits	RPD
2,4'-DDD	0.0980	0.124		ug/L		126	50 - 150	
2,4'-DDE	0.0980	0.101		ug/L		103	50 - 150	
2,4'-DDT	0.0980	0.0997		ug/L		102	50 - 150	
2,4-Dinitrotoluene	0.0980	0.0754	J	ug/L		77	50 - 150	
2,6-Dinitrotoluene	0.0980	0.0732	J	ug/L		75	50 - 150	
4,4'-DDD	0.0980	0.110		ug/L		112	50 - 150	
4,4'-DDE	0.0980	0.109		ug/L		111	50 - 150	
4,4'-DDT	0.0980	0.126		ug/L		129	50 - 150	
Acenaphthene	0.0980	0.0953	J	ug/L		97	50 - 150	
Acenaphthylene	0.0980	0.0827	J	ug/L		84	50 - 150	
Acetochlor	0.0490	0.0495	J	ug/L		101	50 - 150	
Alachlor	0.0490	0.0559		ug/L		114	50 - 150	
alpha-BHC	0.0980	0.0959	J	ug/L		98	50 - 150	
alpha-Chlordane	0.0490	0.0532		ug/L		109	50 - 150	
Anthracene	0.0196	ND		ug/L		85	50 - 150	
Atrazine	0.0490	0.0580		ug/L		118	50 - 150	
Benz(a)anthracene	0.0490	0.0515		ug/L		105	50 - 150	
Benzo[a]pyrene	0.0196	0.0218		ug/L		111	50 - 150	
Benzo[b]fluoranthene	0.0196	0.0223		ug/L		114	50 - 150	

Euofins Eaton Monrovia

QC Sample Results

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

Job ID: 380-20762-1

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

Lab Sample ID: MRL 380-17302/2-A

Matrix: Water

Analysis Batch: 17480

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 17302

Analyte	Spike	MRL	MRL	Unit	D	%Rec	%Rec Limits
	Added	Result	Qualifier				
Benzo[g,h,i]perylene	0.0490	0.0438	J	ug/L		89	50 - 150
Benzo[k]fluoranthene	0.0196	0.0214		ug/L		109	50 - 150
beta-BHC	0.0980	0.0932	J	ug/L		95	50 - 150
Bromacil	0.0980	0.102		ug/L		104	50 - 150
Butachlor	0.0490	0.0542		ug/L		111	50 - 150
Butylbenzylphthalate	0.147	0.186	J	ug/L		126	50 - 150
Caffeine	0.0490	0.0251	J	ug/L		51	50 - 150
Chlorobenzilate	0.0980	0.103		ug/L		105	50 - 150
Chloroneb	0.0980	0.113		ug/L		115	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0980	0.0844	J	ug/L		86	50 - 150
Chlorpyrifos	0.0490	0.0502		ug/L		102	50 - 150
Chrysene	0.0196	0.0238		ug/L		121	50 - 150
delta-BHC	0.0980	0.115		ug/L		117	50 - 150
Di(2-ethylhexyl)adipate	0.294	0.340	J	ug/L		115	50 - 150
Bis(2-ethylhexyl) phthalate	0.588	0.704		ug/L		120	50 - 150
Diazinon (Qualitative)	0.0980	0.0906	J	ug/L		92	15 - 132
Dibenz(a,h)an hracene	0.0490	0.0438	J	ug/L		89	50 - 150
Diclorvos (DDVP)	0.0490	0.0546		ug/L		111	50 - 150
Dieldrin	0.0980	0.102	J	ug/L		104	50 - 150
Diethylphthalate	0.147	0.157	J	ug/L		106	50 - 150
Dimethoate	0.0980	0.0379	J	ug/L		39	35 - 100
Dimethylphthalate	0.294	0.281	J	ug/L		95	50 - 150
Di-n-butyl phthalate	0.294	0.379	J	ug/L		129	49 - 243
Di-n-octyl phthalate	0.0980	0.119		ug/L		121	50 - 150
Endosulfan I (Alpha)	0.0980	0.0980		ug/L		100	50 - 150
Endosulfan II (Beta)	0.0980	0.102		ug/L		104	50 - 150
Endosulfan sulfate	0.0980	0.0861	J	ug/L		88	50 - 150
Endrin	0.0980	0.122		ug/L		124	50 - 150
Endrin aldehyde	0.0980	0.108		ug/L		110	50 - 150
EPTC	0.0980	0.0991		ug/L		101	50 - 150
Fluoranthene	0.0490	0.0462	J	ug/L		94	50 - 150
Fluorene	0.0490	0.0509		ug/L		104	50 - 150
gamma-Chlordane	0.0490	0.0523		ug/L		107	50 - 150
Heptachlor	0.0392	0.0545		ug/L		139	50 - 150
Heptachlor epoxide (isomer B)	0.0490	0.0468	J	ug/L		96	50 - 150
Hexachlorobenzene	0.0490	0.0413	J	ug/L		84	50 - 150
Hexachlorocyclopentadiene	0.0490	0.0492		ug/L		100	50 - 150
Indeno[1,2,3-cd]pyrene	0.0490	0.0424	J	ug/L		87	50 - 150
Isophorone	0.0980	0.0999	J	ug/L		102	50 - 150
Lindane	0.0490	0.0393		ug/L		80	50 - 150
Malathion	0.0980	0.0897	J	ug/L		92	50 - 150
Methoxychlor	0.0980	0.137		ug/L		139	50 - 150
Metolachlor	0.0490	0.0524		ug/L		107	50 - 150
Metribuzin	0.0490	0.0638		ug/L		130	50 - 150
Molinate	0.0980	0.0984		ug/L		100	50 - 150
Naphthalene	0.0980	0.103	J	ug/L		105	50 - 150
Parathion	0.0980	0.119		ug/L		122	50 - 150
Pendimethalin (Penoxaline)	0.0980	0.126		ug/L		128	50 - 150
Phenanthrene	0.0196	0.0186	J	ug/L		95	50 - 150

Eurofins Eaton Monrovia

QC Sample Results

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

Job ID: 380-20762-1

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

Lab Sample ID: MRL 380-17302/2-A

Matrix: Water

Analysis Batch: 17480

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 17302

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Propachlor	0.0490	0.0478	J	ug/L		97	50 - 150
Pyrene	0.0490	0.0464	J	ug/L		95	50 - 150
Simazine	0.0490	0.0392	J	ug/L		80	50 - 150
Terbacil	0.0980	0.108		ug/L		110	50 - 150
Terbutylazine	0.0980	0.104		ug/L		106	50 - 150
Thiobencarb	0.0980	0.113	J	ug/L		115	50 - 150
trans-Nonachlor	0.0490	0.0364	J	ug/L		74	50 - 150
Trifluralin	0.0980	0.108		ug/L		110	50 - 150
1-Methylnaphthalene	0.0980	0.111		ug/L		113	50 - 150
2-Methylnaphthalene	0.0980	0.106		ug/L		108	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
2-Nitro-m-xylene	94		70 - 130
Triphenylphosphate	97		70 - 130
Perylene-d12	89		70 - 130

Lab Sample ID: 380-20830-J-3-A MS

Matrix: Water

Analysis Batch: 17480

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 17302

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
2,4'-DDD	ND		1.96	2.07		ug/L		106	70 - 130
2,4'-DDE	ND		1.96	2.13		ug/L		109	70 - 130
2,4'-DDT	ND		1.96	2.49		ug/L		127	70 - 130
2,4-Dinitrotoluene	ND		1.96	1.78		ug/L		91	70 - 130
2,6-Dinitrotoluene	ND		1.96	1.72		ug/L		88	70 - 130
4,4'-DDD	ND		1.96	2.32		ug/L		118	70 - 130
4,4'-DDE	ND		1.96	2.21		ug/L		113	70 - 130
4,4'-DDT	ND		1.96	2.32		ug/L		118	70 - 130
Acenaphthene	ND		1.96	1.79		ug/L		91	70 - 130
Acenaphthylene	ND		1.96	1.88		ug/L		96	70 - 130
Acetochlor	ND		1.96	1.91		ug/L		98	70 - 130
Alachlor	ND		1.96	2.04		ug/L		104	70 - 130
alpha-BHC	ND		1.96	2.00		ug/L		102	70 - 130
alpha-Chlordane	ND		1.96	1.77		ug/L		91	70 - 130
Anthracene	ND		1.96	1.83		ug/L		93	70 - 130
Atrazine	ND		1.96	2.08		ug/L		106	70 - 130
Benz(a)anthracene	ND		1.96	2.33		ug/L		119	70 - 130
Benzo[a]pyrene	ND		1.96	2.13		ug/L		109	70 - 130
Benzo[b]fluoranthene	ND		1.96	2.13		ug/L		109	70 - 130
Benzo[g,h,i]perylene	ND		1.96	2.02		ug/L		103	70 - 130
Benzo[k]fluoranthene	ND		1.96	2.31		ug/L		118	70 - 130
beta-BHC	ND		1.96	2.05		ug/L		105	70 - 130
Bromacil	ND	F1	1.96	2.69	F1	ug/L		137	70 - 130
Butachlor	ND		1.96	2.14		ug/L		109	70 - 130
Butylbenzylphthalate	ND		1.96	2.18		ug/L		111	70 - 130
Caffeine	ND		1.96	1.69		ug/L		86	46 - 144
Chlorobenzilate	ND		1.96	2.26		ug/L		115	70 - 130

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QC Sample Results

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

Job ID: 380-20762-1

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

Lab Sample ID: 380-20830-J-3-A MS

Client Sample ID: Matrix Spike

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 17480

Prep Batch: 17302

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
Chloroneb	ND		1.96	2.19		ug/L		112	70 - 130
Chlorothalonil (Draconil, Bravo)	ND		1.96	2.22		ug/L		113	70 - 130
Chlorpyrifos	ND		1.96	2.36		ug/L		120	70 - 130
Chrysene	ND		1.96	2.31		ug/L		118	70 - 130
delta-BHC	ND		1.96	2.03		ug/L		104	70 - 130
Di(2-ethylhexyl)adipate	ND		1.96	2.15		ug/L		110	70 - 130
Bis(2-ethylhexyl) phthalate	ND		1.96	2.06		ug/L		105	70 - 130
Diazinon (Qualitative)	ND		1.96	1.91		ug/L		98	15 - 132
Dibenz(a,h)an hracene	ND		1.96	2.16		ug/L		110	70 - 130
Diclorvos (DDVP)	ND		1.96	2.14		ug/L		109	70 - 130
Dieldrin	ND		1.96	2.22		ug/L		114	70 - 130
Diethylphthalate	ND		1.96	1.88		ug/L		96	70 - 130
Dimethoate	ND		1.96	1.05		ug/L		54	34 - 111
Dimethylphalate	ND		1.96	1.92		ug/L		98	70 - 130
Di-n-butyl phthalate	ND		3.92	4.48		ug/L		114	70 - 130
Di-n-octyl phthalate	ND		1.96	1.92		ug/L		98	70 - 130
Endosulfan I (Alpha)	ND		1.96	2.22		ug/L		113	70 - 130
Endosulfan II (Beta)	ND		1.96	2.33		ug/L		119	70 - 130
Endosulfan sulfate	ND		1.96	2.35		ug/L		120	70 - 130
Endrin	ND		1.96	2.03		ug/L		104	70 - 130
Endrin aldehyde	ND		1.96	1.97		ug/L		101	70 - 130
EPTC	ND		1.96	1.96		ug/L		100	70 - 130
Fluoranthene	ND		1.96	2.29		ug/L		117	70 - 130
Fluorene	ND		1.96	1.97		ug/L		100	70 - 130
gamma-Chlordane	ND		1.96	1.86		ug/L		95	70 - 130
Heptachlor	ND		1.96	2.07		ug/L		106	70 - 130
Heptachlor epoxide (isomer B)	ND		1.96	1.85		ug/L		94	70 - 130
Hexachlorobenzene	ND		1.96	2.03		ug/L		104	70 - 130
Hexachlorocyclopentadiene	ND		1.96	2.35		ug/L		120	70 - 130
Indeno[1,2,3-cd]pyrene	ND		1.96	2.13		ug/L		109	70 - 130
Isophorone	ND		1.96	1.87		ug/L		96	70 - 130
Lindane	ND		1.96	2.09		ug/L		107	70 - 130
Malathion	ND		1.96	2.26		ug/L		115	70 - 130
Methoxychlor	ND		1.96	2.31		ug/L		118	70 - 130
Metolachlor	ND		1.96	2.21		ug/L		113	70 - 130
Metribuzin	ND		1.96	1.97		ug/L		101	70 - 130
Molinate	ND		1.96	2.05		ug/L		105	70 - 130
Naphthalene	ND		1.96	1.92		ug/L		98	70 - 130
Parathion	ND		1.96	2.24		ug/L		114	70 - 130
Pendimethalin (Penoxaline)	ND		1.96	2.27		ug/L		116	70 - 130
Phenanthrene	ND		1.96	1.95		ug/L		100	70 - 130
Propachlor	ND		1.96	2.16		ug/L		111	70 - 130
Pyrene	ND		1.96	2.33		ug/L		119	70 - 130
Simazine	ND		1.96	2.28		ug/L		116	70 - 130
Terbacil	ND		1.96	2.19		ug/L		112	70 - 130
Terbuthylazine	ND		1.96	2.07		ug/L		106	70 - 130
Thiobencarb	ND		1.96	1.93		ug/L		98	70 - 130
trans-Nonachlor	ND		1.96	2.23		ug/L		114	70 - 130
Trifluralin	ND		1.96	2.10		ug/L		107	70 - 130

Eurofins Eaton Monrovia

QC Sample Results

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

Job ID: 380-20762-1

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

Lab Sample ID: 380-20830-J-3-A MS

Client Sample ID: Matrix Spike

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 17480

Prep Batch: 17302

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
1-Methylnaphthalene	ND		1.96	1.92		ug/L		98	70 - 130
2-Methylnaphthalene	ND		1.96	1.93		ug/L		99	70 - 130

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	95		70 - 130
Triphenylphosphate	105		70 - 130
Perylene-d12	93		70 - 130

Lab Sample ID: 380-20830-J-2-A DU

Client Sample ID: Duplicate

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 17480

Prep Batch: 17302

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
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		ND		ug/L		NC	20
Bis(2-ethylhexyl) phthalate	ND		ND		ug/L		NC	20
Diazinon (Qualitative)	ND		ND		ug/L		NC	20

Eurofins Eaton Monrovia

QC Sample Results

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

Job ID: 380-20762-1

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

Lab Sample ID: 380-20830-J-2-A DU

Matrix: Water

Analysis Batch: 17480

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 17302

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Dibenz(a,h)an hracene	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
Dimethylph halate	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
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		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
1-Methylnaphthalene	ND		ND		ug/L		NC	20
2-Methylnaphthalene	ND		ND		ug/L		NC	20

Surrogate	DU DU		Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	91		70 - 130
Triphenylphosphate	93		70 - 130

Eurofins Eaton Monrovia

QC Sample Results

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

Job ID: 380-20762-1

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

Lab Sample ID: 380-20830-J-2-A DU

Matrix: Water

Analysis Batch: 17480

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 17302

<i>Surrogate</i>	<i>%Recovery</i>	<i>DU DU</i> <i>Qualifier</i>	<i>Limits</i>
<i>Perylene-d12</i>	93		70 - 130

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QC Association Summary

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

Job ID: 380-20762-1

GC/MS Semi VOA

Prep Batch: 17302

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-20762-1	HALAWA WELLS P1 (331-023-WL065)	Total/NA	Drinking Water	525.2	
MB 380-17302/1-A	Method Blank	Total/NA	Water	525.2	
LCS 380-17302/3-A	Lab Control Sample	Total/NA	Water	525.2	
LCSD 380-17302/4-A	Lab Control Sample Dup	Total/NA	Water	525.2	
MRL 380-17302/2-A	Lab Control Sample	Total/NA	Water	525.2	
380-20830-J-3-A MS	Matrix Spike	Total/NA	Water	525.2	
380-20830-J-2-A DU	Duplicate	Total/NA	Water	525.2	

Analysis Batch: 17480

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-20762-1	HALAWA WELLS P1 (331-023-WL065)	Total/NA	Drinking Water	525.2	17302
MB 380-17302/1-A	Method Blank	Total/NA	Water	525.2	17302
LCS 380-17302/3-A	Lab Control Sample	Total/NA	Water	525.2	17302
LCSD 380-17302/4-A	Lab Control Sample Dup	Total/NA	Water	525.2	17302
MRL 380-17302/2-A	Lab Control Sample	Total/NA	Water	525.2	17302
380-20830-J-3-A MS	Matrix Spike	Total/NA	Water	525.2	17302
380-20830-J-2-A DU	Duplicate	Total/NA	Water	525.2	17302



Lab Chronicle

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

Job ID: 380-20762-1

Client Sample ID: HALAWA WELLS P1 (331-023-WL065)

Lab Sample ID: 380-20762-1

Date Collected: 09/12/22 10:01

Matrix: Drinking Water

Date Received: 09/13/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			17302	UMV1	EA MON	09/14/22 10:07
Total/NA	Analysis	525.2		1	17480	Q8LA	EA MON	09/15/22 13:44

Laboratory References:

= Physis Environmental Laboratories, 1904 Wright Circle, Anaheim, CA 92806

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: 380-20762-1

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	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	Acenaphthene
525.2	525.2	Drinking Water	Acenaphthylene
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	Anthracene
525.2	525.2	Drinking Water	Benz(a)anthracene
525.2	525.2	Drinking Water	Benzo[b]fluoranthene
525.2	525.2	Drinking Water	Benzo[g,h,i]perylene
525.2	525.2	Drinking Water	Benzo[k]fluoranthene
525.2	525.2	Drinking Water	beta-BHC
525.2	525.2	Drinking Water	Bromacil
525.2	525.2	Drinking Water	Butylbenzylphthalate
525.2	525.2	Drinking Water	Caffeine
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	Chrysene
525.2	525.2	Drinking Water	delta-BHC
525.2	525.2	Drinking Water	Diazinon (Qualitative)
525.2	525.2	Drinking Water	Dibenz(a,h)anthracene
525.2	525.2	Drinking Water	Diclorvos (DDVP)
525.2	525.2	Drinking Water	Diethylphthalate
525.2	525.2	Drinking Water	Dimethoate
525.2	525.2	Drinking Water	Dimethylphthalate
525.2	525.2	Drinking Water	Di-n-butyl phthalate
525.2	525.2	Drinking Water	Di-n-octyl phthalate
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	Fluoranthene
525.2	525.2	Drinking Water	Fluorene

Accreditation/Certification Summary

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

Job ID: 380-20762-1

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	Drinking Water	gamma-Chlordane
525.2	525.2	Drinking Water	Indeno[1,2,3-cd]pyrene
525.2	525.2	Drinking Water	Isophorone
525.2	525.2	Drinking Water	Malathion
525.2	525.2	Drinking Water	Molinate
525.2	525.2	Drinking Water	Naphthalene
525.2	525.2	Drinking Water	Parathion
525.2	525.2	Drinking Water	Pendimethalin (Penoxaline)
525.2	525.2	Drinking Water	Phenanthrene
525.2	525.2	Drinking Water	Pyrene
525.2	525.2	Drinking Water	Terbacil
525.2	525.2	Drinking Water	Terbutylazine
525.2	525.2	Drinking Water	Thiobencarb
525.2	525.2	Drinking Water	Total Permethrin (mixed isomers)
525.2	525.2	Drinking Water	trans-Nonachlor
525.2	525.2	Drinking Water	Trifluralin



Method Summary

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

Job ID: 380-20762-1

Method	Method Description	Protocol	Laboratory
525.2	Semivolatile Organic Compounds (GC/MS)	EPA	EA MON
625	EPA 625 Base/Neutral and Acid Organics i	EPA	
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:

= Physis Environmental Laboratories, 1904 Wright Circle, Anaheim, CA 92806

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: 380-20762-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
380-20762-1	HALAWA WELLS P1 (331-023-WL065)	Drinking Water	09/12/22 10:01	09/13/22 10:00
380-20762-2	TB: HALAWA WELLS P1 (331-023-WL065)	Water	09/12/22 10:01	09/13/22 10:00

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

Date: 09-28-2022
EMAX Batch No.: 221160

Attn: Jackie Contreras

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

Subject: Laboratory Report
Project: 380-20762

Enclosed is the Laboratory report for samples received on 09/14/22.
The data reported relate only to samples listed below :

Sample ID	Control #	Col Date	Matrix	Analysis
380-20762-1	I160-01	09/12/22	WATER	TPH GASOLINE
380-20762-2	I160-02	09/12/22	WATER	TPH DIESEL & MOTOR OIL 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

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
221160



Client Information (Sub Contract Lab)

Client Contact: EMAX Laboratories Inc
Shipping/Receiving: 3051 Fujita Street, Torrance, CA, 90505
City: Torrance
State, Zip: CA, 90505
Phone: [Blank]
Email: [Blank]
Project Name: RED-HILL
Site: Honolulu BWS Sites

Sampler: Frank, Debbie L
Lab P/N: [Blank]
E-Mail: Debbie.Frank@eurofins.com
Accreditations Required (See note): State - Hawaii

Date Date Requested: 9/20/2022
TAT Requested (days): [Blank]

Project #: 38001111
SOW #: [Blank]

Analysis Requested

Field Filtered Sample (Yes or No)
Perform MS/MSD (Yes or No)
SUB (8015 Gas (Purgeable) LL (EAL)) 8015 Gas (Purgeable) LL (EAL)
SUB (8015 Diesel LL (EAL) and Motor Oil) 8015 Diesel LL (EAL) and Motor Oil

GC/MS No: 380-21711.1
Page: 1 of 1

Job #: 380-20762-1
Preservation Codes:
A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Ammonia
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDTA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecylhydrate
U - Acetone
V - MCAA
W - pH 4.5
Y - Trizma
Z - other (specify)

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (G=comp, G=grab)	MATRIX (W=water, S=solid, O=soil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Analysis Requested	GC/MS No	Page	Job #	Preservation Codes
HALAWA WELLS P1 (331-023-W L065) (380-20762-1)	9/12/22	10:01		Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		380-21711.1	1 of 1	380-20762-1	A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Ammonia H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDTA M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecylhydrate U - Acetone V - MCAA W - pH 4.5 Y - Trizma Z - other (specify)
HALAWA WELLS P1 (331-023-W L065) (380-20762-2)	9/12/22	10:01		Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		380-21711.1	1 of 1	380-20762-1	A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Ammonia H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDTA M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecylhydrate U - Acetone V - MCAA W - pH 4.5 Y - Trizma Z - other (specify)

Note: Since laboratory accreditations are subject to change, Eurofins Eaton Analytical, LLC places the ownership of method, analyze & 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/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 Eurofins Eaton Analytical, LLC.

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

Relinquished by:	Date/Time:	Company:	Received By:	Date/Time:	Company:
[Signature]	9/14/22	EMAX	[Signature]	9/14/22	EMAX



Type of Delivery <input type="checkbox"/> Fedex <input type="checkbox"/> UPS <input type="checkbox"/> GSO <input type="checkbox"/> Others	Airbill / Tracking Number	ECN <u>221160</u>
<input type="checkbox"/> EMAX Courier <input checked="" type="checkbox"/> Client Delivery		Recipient <u>Derek Sholl</u>
		Date <u>9/14/22</u> Time <u>1128</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 checked="" type="checkbox"/> Tel # / Fax #	<input checked="" 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 <u>contraction</u>	<input checked="" type="checkbox"/> Cooler	<input type="checkbox"/> Box	<input type="checkbox"/> Other
Condition <u>factor</u>	<input type="checkbox"/> Custody Seal	<input type="checkbox"/> Intact	<input type="checkbox"/> Damaged
Packaging <u>-0.2</u>	<input checked="" type="checkbox"/> Bubble Pack	<input type="checkbox"/> Styrofoam	<input type="checkbox"/> Popcorn
Temperatures (Cool, ≤5 °C but not frozen)	<input checked="" type="checkbox"/> Cooler 1: <u>11.1/0.9</u> °C	<input type="checkbox"/> Cooler 2 _____ °C	<input type="checkbox"/> Cooler 3 _____ °C
Thermometer: A - S/N _____	<input type="checkbox"/> Cooler 6 _____ °C	<input type="checkbox"/> Cooler 7 _____ °C	<input type="checkbox"/> Cooler 8 _____ °C
	<input type="checkbox"/> Cooler 9 _____ °C	<input type="checkbox"/> Cooler 10 _____ °C	

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

Note: _____

DISCREPANCIES

LabSampleID	LabSampleContainerID	Code	ClientSample Label ID / Information	Corrective Action
<u>1</u>	<u>1-6</u>	<u>P10</u>		<u>R8</u>
<i>(Large diagonal scribble across the table)</i>				

pH holding time requirement for water samples is 15 mins. Water samples for pH analysis are received beyond 15 minutes from sampling time. MS 9/19/22

NOTES/OBSERVATIONS:
SAMPLE MATRIX IS DRINKING WATER? YES NO

- LEGEND:**
- | | | |
|--|---|--|
| Code Description- Sample Management | Code Description-Sample Management | <input type="checkbox"/> Continue to next page. |
| D1 Analysis is not indicated in _____ | D13 Out of Holding Time | R1 Proceed as indicated in <input type="checkbox"/> COC <input type="checkbox"/> Label |
| D2 Analysis mismatch COC vs label | D14 Bubble is >6mm | R2 Refer to attached instruction |
| D3 Sample ID mismatch COC vs label | D15 No trip blank in cooler | R3 Cancel the analysis |
| D4 Sample ID is not indicated in _____ | D16 Preservation not indicated in _____ | R4 Use vial with smallest bubble first |
| D5 Container -[improper] [leaking] [broken] | D17 Preservation mismatch COC vs label | R5 Log-in with latest sampling date and time+1 min |
| D6 Date/Time is not indicated in _____ | D18 Insufficient chemical preservative | R6 Adjust pH as necessary |
| D7 Date/Time mismatch COC vs label | D19 Insufficient Sample | R7 Filter and preserved as necessary |
| D8 Sample listed in COC is not received | D20 No filtration info for dissolved analysis | R8 <u>Informed client</u> |
| D9 Sample received is not listed in COC | D21 No sample for moisture determination | R9 _____ |
| D10 <u>No initial/date on corrections in COC/label</u> | D22 _____ | R10 _____ |
| D11 Container count mismatch COC vs received | D23 _____ | R11 _____ |
| D12 Container size mismatch COC vs received | D24 _____ | R12 _____ |

REVIEWS:

Sample Labeling Jamora SRF Quilca PM MS
 Date 9/14/22 Date 9/14/22 Date 9/19/22

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

380-20762

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

SDG#: 22I160



CASE NARRATIVE

Client : EUROFINS EATON ANALYTICAL

Project: 380-20762

SDG : 22I160

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

A total of two(2) water samples were received on 09/14/22 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. VG39I11B - 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. VG39I11L/VG39I11C 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 I150-01M/I150-01S. 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.

LAB CHRONICLE
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : EUROFINS EATON ANALYTICAL
 Project : 380-20762
 SDG NO. : 22I160
 Instrument ID : GCT039

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
									WATER
MBLK1W	V639I11B	1	NA	09/14/2215:43	09/14/2215:43	EI14006A	EI14005A	22VG39I11	Method Blank
LCS1W	V639I11L	1	NA	09/14/2216:22	09/14/2216:22	EI14007A	EI14005A	22VG39I11	Lab Control Sample (LCS)
LCD1W	V639I11C	1	NA	09/14/2217:00	09/14/2217:00	EI14008A	EI14005A	22VG39I11	LCS Duplicate
380-20762-1	I160-01	1	NA	09/15/2200:03	09/15/2200:03	EI14019A	EI14016A	22VG39I11	Field Sample
380-20762-2	I160-02	1	NA	09/15/2200:41	09/15/2200:41	EI14020A	EI14016A	22VG39I11	Field Sample

FN - Filename
 % Moist - Percent Moisture



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SAMPLE RESULTS

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

```

=====
Client      : EUROFINS EATON ANALYTICAL   Date Collected: 09/12/22 10:01
Project     : 380-20762                 Date Received: 09/14/22
Batch No.   : 221160                   Date Extracted: 09/15/22 00:03
Sample ID   : 380-20762-1              Date Analyzed: 09/15/22 00:03
Lab Samp ID : I160-01                  Dilution Factor: 1
Lab File ID : E114019A                 Matrix: WATER
Ext Btch ID : 22VG39111                % Moisture: NA
Calib. Ref.: E114016A                 Instrument ID: 39
=====

```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
GASOLINE	ND	0.020	0.010

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromofluorobenzene	0.0340	0.0400	85	60-140

Notes:

Parameter H-C Range
Gasoline C6-C10
Reported ND at RL quantitated per pattern recognition.

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

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

```

=====
Client      : EUROFINS EATON ANALYTICAL   Date Collected: 09/12/22 10:01
Project     : 380-20762                   Date Received: 09/14/22
Batch No.   : 221160                       Date Extracted: 09/15/22 00:41
Sample ID   : 380-20762-2                 Date Analyzed: 09/15/22 00:41
Lab Samp ID: I160-02                       Dilution Factor: 1
Lab File ID: E114020A                       Matrix: WATER
Ext Btch ID: 22VG39111                     % Moisture: NA
Calib. Ref.: E114016A                     Instrument ID: 39
=====

```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)	
GASOLINE	ND	0.020	0.010	
SURROGATE PARAMETERS				
	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromofluorobenzene	0.0339	0.0400	85	60-140

Notes:

Parameter H-C Range
Gasoline C6-C10
Reported ND at RL quantitated per pattern recognition.

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

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QC SUMMARIES

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

```

=====
Client      : EUROFINS EATON ANALYTICAL   Date Collected: 09/14/22 15:43
Project    : 380-20762                   Date Received: 09/14/22
Batch No.  : 221160                       Date Extracted: 09/14/22 15:43
Sample ID  : MBLK1W                       Date Analyzed: 09/14/22 15:43
Lab Samp ID: VG39111B                    Dilution Factor: 1
Lab File ID: EI14006A                     Matrix: WATER
Ext Btch ID: 22VG39111                   % Moisture: NA
Calib. Ref.: EI14005A                    Instrument ID: 39
=====

```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
GASOLINE	ND	0.020	0.010

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromofluorobenzene	0.0338	0.0400	84	60-140

Notes:
Parameter H-C Range
Gasoline C6-C10
Reported ND at RL quantitated per pattern recognition.

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

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL
PROJECT : 380-20762
BATCH NO. : 221160
METHOD : 5030B/8015B

```

=====
MATRIX      : WATER                               % MOISTURE:NA
DILUTION FACTOR: 1                               1
SAMPLE ID   : MBLK1W                             LCS1W       LCD1W
LAB SAMPLE ID : VG39I11B                         VG39I11L   VG39I11C
LAB FILE ID  : EI14006A                         EI14007A   EI14008A
DATE PREPARED : 09/14/22 15:43                 09/14/22 16:22 09/14/22 17:00
DATE ANALYZED : 09/14/22 15:43                 09/14/22 16:22 09/14/22 17:00
PREP BATCH   : 22VG39I11                       22VG39I11  22VG39I11
CALIBRATION REF: EI14005A                       EI14005A   EI14005A
  
```

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	0.467	93	0.500	0.465	93	0	60-130	30

SURROGATE PARAMETER	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	SpikeAmt (mg/L)	LCDResult (mg/L)	LCDRec (%)	QCLimit (%)
Bromofluorobenzene	0.0400	0.0439	110	0.0400	0.0444	111	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 : 810-36951
BATCH NO. : 22I150
METHOD : 5030B/8015B

```

=====
MATRIX      : WATER                               % MOISTURE:NA
DILUTION FACTOR: 1                               1
SAMPLE ID   : 810-36951-1                         810-36951-1MS
LAB SAMPLE ID : I150-01                           I150-01M
LAB FILE ID  : EI14009A                           EI14010A
DATE PREPARED : 09/14/22 17:39                    09/14/22 18:17
DATE ANALYZED : 09/14/22 17:39                    09/14/22 18:56
PREP BATCH   : 22VG39I11                          22VG39I11
CALIBRATION REF: EI14005A                          EI14005A
  
```

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	0.477	95	0.500	0.473	95	1	50-130	30

SURROGATE PARAMETER	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	QCLimit (%)
Bromofluorobenzene	0.0400	0.0437	109	0.0400	0.0433	108	60-140

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

LABORATORY REPORT FOR

EUROFINS EATON ANALYTICAL

380-20762

METHOD 3520C/8015B
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

SDG#: 221160



CASE NARRATIVE

Client : EUROFINS EATON ANALYTICAL

Project: 380-20762

SDG : 22I160

METHOD 3520C/8015B
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

One(1) water sample was received on 09/14/22 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. DSI021WB - 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 DSI021WL. 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. Diesel was within MS QC limits in 22I184-01M/22I184-01S. Refer to Matrix QC summary form for details.

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.

LAB CHRONICLE
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

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=====
Client   : EUROFINS EATON ANALYTICAL
Project  : 380-20762
=====
SDG NO. : 221160
Instrument ID : D5
=====

```

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Prep. Data FN	Batch	Notes
MBLK1W	DSI021WB	1	NA	09/21/2220:06	09/20/2213:00	LI20108A	LI20094A	22DSI021W	Method Blank
LCS1W	DSI021WL	1	NA	09/21/2220:25	09/20/2213:00	LI20109A	LI20094A	22DSI021W	Lab Control Sample (LCS)
380-20762-1	I160-01	1	NA	09/21/2223:11	09/20/2213:00	LI20118A	LI20115A	22DSI021W	Field Sample

FN - Filename
% Moist - Percent Moisture



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SAMPLE RESULTS

METHOD 3520C/8015B
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

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=====
Client      : EUROFINS EATON ANALYTICAL   Date Collected: 09/12/22 10:01
Project     : 380-20762                   Date Received: 09/14/22
Batch No.   : 22I160                       Date Extracted: 09/20/22 13:00
Sample ID   : 380-20762-1                 Date Analyzed: 09/21/22 23:11
Lab Samp ID: 22I160-01                   Dilution Factor: 1
Lab File ID: LI20118A                     Matrix: WATER
Ext Btch ID: 22DSI021W                    % Moisture: NA
Calib. Ref.: LI20115A                     Instrument ID: D5
=====

```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
Diesel	ND	0.027	0.014
Motor Oil	ND	0.054	0.027

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	0.334	0.540	62	60-130
Hexacosane	0.107	0.135	79	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 : 930ml Final Volume : 5ml
Prepared by : DLi Analyzed by : SDeeso

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QC SUMMARIES

METHOD 3520C/8015B
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client      : EUROFINS EATON ANALYTICAL   Date Collected: 09/20/22 13:00
Project     : 380-20762                   Date Received: 09/20/22
Batch No.   : 221160                       Date Extracted: 09/20/22 13:00
Sample ID   : MBLK1W                       Date Analyzed: 09/21/22 20:06
Lab Samp ID: DSIO21WB                      Dilution Factor: 1
Lab File ID: LI20108A                      Matrix: WATER
Ext Btch ID: 22DSIO21W                    % Moisture: NA
Calib. Ref.: LI20094A                     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	0.358	0.500	72	60-130
Hexacosane	0.0961	0.125	77	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 : DLi Analyzed by : SDeeso

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL
PROJECT : 380-20762
BATCH NO. : 221160
METHOD : 3520C/8015B

=====

MATRIX	: WATER	% MOISTURE:NA
DILUTION FACTOR:	1	1
SAMPLE ID	: MBLK1W	LCS1W
LAB SAMPLE ID	: DSI021WB	DSI021WL
LAB FILE ID	: LI20108A	LI20109A
DATE PREPARED	: 09/20/22 13:00	09/20/22 13:00
DATE ANALYZED	: 09/21/22 20:06	09/21/22 20:25
PREP BATCH	: 22DSI021W	22DSI021W
CALIBRATION REF:	LI20094A	LI20094A

ACCESSION:

PARAMETERS	MBResult (mg/L)	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	QCLimit (%)
-----	-----	-----	-----	-----	-----
Diesel	ND	2.50	2.52	101	50-130

SURROGATE PARAMETERS	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	QCLimit (%)
-----	-----	-----	-----	-----
Bromobenzene	0.500	0.356	71	60-130
Hexacosane	0.125	0.111	89	60-130

=====

MB: Method Blank sample LCS: Lab Control Sample

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL
PROJECT : 380-20912
BATCH NO. : 22I184
METHOD : 3520C/8015B

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=====
MATRIX : WATER % MOISTURE:NA
DILUTION FACTOR: 1 1 1
SAMPLE ID : 380-20912-1 380-20912-1MS 380-20912-1MSD
LAB SAMPLE ID : 22I184-01 22I184-01M 22I184-01S
LAB FILE ID : LI20124A LI20126A LI20127A
DATE PREPARED : 09/20/22 13:00 09/20/22 13:00 09/20/22 13:00
DATE ANALYZED : 09/22/22 01:01 09/22/22 01:38 09/22/22 01:56
PREP BATCH : 22DSI021W 22DSI021W 22DSI021W
CALIBRATION REF: LI20115A LI20115A LI20115A
=====

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ACCESSION:

PARAMETERS	PSResult (mg/L)	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Diesel	ND	2.58	2.60	101	2.45	2.61	107	0	50-130	30

SURROGATE PARAMETERS	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	QCLimit (%)
Bromobenzene	0.515	0.387	75	0.490	0.315	64	60-130
Hexacosane	0.129	0.132	103	0.123	0.129	105	60-130

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

September 24, 2022

Debbie Frank
Eurofins Eaton Analytical
750 Royal Oaks Drive
Suite 100
Monrovia, CA 91016-

Project Name: RED-HILL Project # 38001111 Job # 380-20762-1
Physis Project ID: 1407003-293

Dear Debbie,


Enclosed are the analytical results for the sample submitted to PHYSIS Environmental Laboratories, Inc. (PHYSIS) on 9/14/2022. A total of 1 sample was received for analysis in accordance with the attached chain of custody (COC). Per the COC, the sample was analyzed for:

Organics
Polynuclear Aromatic Hydrocarbons by EPA 625.1
Disalicylidenepropanediamine by EPA 625.1
Dibenzo [a,l] Pyrene w/ PAHs by EPA 625.1

Analytical results in this report apply only to samples submitted to PHYSIS in accordance with the COC and are intended to be considered in their entirety.

Please feel free to contact me at any time with any questions. PHYSIS appreciates the opportunity to provide you with our analytical and support services.

Regards,


Misty Mercier
714 602-5320
Extension 202
mistymercier@physislabs.com

PROJECT SAMPLE LIST

Eurofins Eaton Analytical

PHYSIS Project ID: 1407003-293

RED-HILL Project # 38001111 Job # 380-20762-1

Total Samples: 1

PHYSIS ID	Sample ID	Description	Date	Time	Matrix	Sample Type
99988	HALAWA WELLS P1	331-023-WL065 (380-20762-1)	9/12/2022	10:01	Samplewater	Not Specified

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ABBREVIATIONS and ACRONYMS

QM	Quality Manual
QA	Quality Assurance
QC	Quality Control
MDL	method detection limit
RL	reporting limit
R1	project sample
R2	project sample replicate
MS1	matrix spike
MS2	matrix spike replicate
B1	procedural blank
B2	procedural blank replicate
BS1	blank spike
BS2	blank spike replicate
LCS1	laboratory control spike
LCS2	laboratory control spike replicate
LCM1	laboratory control material
LCM2	laboratory control material replicate
CRM1	certified reference material
CRM2	certified reference material replicate
RPD	relative percent difference
LMW	low molecular weight
HMW	high molecular weight

QUALITY ASSURANCE SUMMARY

LABORATORY BATCH: Physis' QM defines a laboratory batch as a group of 20 or fewer project samples of similar matrix, processed together under the same conditions and with the same reagents. QC samples are associated with each batch and were used to assess the validity of the sample analyses.

PROCEDURAL BLANK: Laboratory contamination introduced during method use is assessed through the preparation and analysis of procedural blanks is provided at a minimum frequency of one per batch.

ACCURACY: Accuracy of analytical measurements is the degree of closeness based on percent recovery calculations between measured values and the actual or true value and includes a combination of reproducibility error and systematic bias due to sampling and analytical operations. Accuracy of the project data was indicated by analysis of MS, BS, LCS, LCM, CRM, and/or surrogate spikes on a minimum frequency of one per batch. Physis' QM requires that 95% of the target compounds greater than 10 times the MDL be within the specified acceptance limits.

PRECISION: Precision is the agreement among a set of replicate measurements without assumption of knowledge of the true value and is based on RPD calculations between repeated values. Precision of the project data was determined by analysis of replicate MS₁/MS₂, BS₁/BS₂, LCS₁/LCS₂, LCM₁/LCM₂, CRM₁/CRM₂, surrogate spikes and/or replicate project sample analysis (R₁/R₂) on a minimum frequency of one per batch. Physis' QM requires that for 95% of the compounds greater than 10 times the MDL, the percent RPD should be within the specified acceptance range.

BLANK SPIKES: BS is the introduction of a known concentration of analyte into the procedural blank. BS demonstrates performance of the preparation and analytical methods on a clean matrix void of potential matrix related interferences. The BS is performed in laboratory deionized water, making these recoveries a better indicator of the efficiency of the laboratory method per se.

MATRIX SPIKES: MS is the introduction of a known concentration of analyte into a sample. MS samples demonstrate the effect a particular project sample matrix has on the accuracy of a measurement. Individually, MS samples also indicate the bias of analytical measurements due to chemical interferences inherent in the in the specific project sample spiked. Intrinsic target analyte concentration in the specific project sample can also significantly impact MS recovery.

CERTIFIED REFERENCE MATERIALS: CRMs are materials of various matrices for which analytical information has been determined and certified by a recognized authority. These are used to provide a quantitative assessment of the accuracy of an analytical method. CRMs provide evidence that the laboratory preparation and analysis produces results that are comparable to those obtained by an independent organization.

LABORATORY CONTROL MATERIAL: LCM is provided because a suitable natural seawater CRM is not available and can be used to indicate accuracy of the method. Physis' internal LCM is seawater collected at ~800 meters in the Southern California San Pedro Basin and can be used as a reference for background concentrations in clean, natural seawater for comparison to project samples.

LABORATORY CONTROL SPIKES: LCS is the introduction of a known concentration of analyte into Physis' LCM. LCS samples were employed to assess the effect the seawater matrix has on the accuracy of a measurement. LCS also indicate the bias of this method due to chemical interferences inherent in the in the seawater matrix. Intrinsic LCM concentration can also significantly impact LCS recovery.

SURROGATES: A surrogate is a pure analyte unlikely to be found in any project sample, behaves similarly to

the target analyte and most often used with organic analytical procedures. Surrogates are added in known concentration to all samples and are measured to indicate overall efficiency of the method including processing and analyses.

HOLDING TIME: Method recommended holding times are the length of time a project sample can be stored under specific conditions after collection and prior to analysis without significantly affecting the analyte's concentration. Holding times can be extended if preservation techniques are employed to reduce biodegradation, volatilization, oxidation, sorption, precipitation, and other physical and chemical processes.

SAMPLE STORAGE/RETENTION: In order to maintain chemical integrity prior to analysis, all samples submitted to Physis are refrigerated (liquids) or frozen (solids) upon receipt unless otherwise recommended by applicable methods. Solid samples are retained for 1 year from collection while liquid samples are retained until method recommended holding times elapse.

TOTAL/DISSOLVED FRACTION: In some instances, the results for the dissolved fraction may be higher than the total fraction for a particular analyte (e.g. trace metals). This is typically caused by the analytical variation for each result and indicates that the target analyte is primarily in the dissolved phase, within the sample.

PHYSIS QUALIFIER CODES

CODE	DEFINITION
#	see Case Narrative
ND	analyte not detected at or above the MDL
B	analyte was detected in the procedural blank greater than 10 times the MDL
E	analyte concentration exceeds the upper limit of the linear calibration range, reported value is estimated
H	sample received and/or analyzed past the recommended holding time
J	analyte was detected at a concentration below the RL and above the MDL, reported value is estimated
N	insufficient sample, analysis could not be performed
M	analyte was outside the specified accuracy and/or precision acceptance limits due to matrix interference. The associated B/BS were within limits, therefore the sample data was reported without further clarification
SH	analyte concentration in the project sample exceeded the spike concentration, therefore accuracy and/or precision acceptance limits do not apply
SL	analyte results were lower than 10 times the MDL, therefore accuracy and/or precision acceptance limits do not apply
NH	project sample was heterogeneous and sample homogeneity could not be readily achieved using routine laboratory practices, therefore accuracy and/or precision acceptance limits do not apply
Q	analyte was outside the specified QAPP acceptance limits for precision and/or accuracy but within Physis derived acceptance limits, therefore the sample data was reported without further clarification
R	Physis' QM allows for 5% of the target compounds greater than 10 times the MDL to be outside the specified acceptance limits for precision and/or accuracy. This is often due to random error and does not indicate any significant problems with the analysis of these project samples

CASE NARRATIVE

QUALIFIER NOTES

In addition to the use of analyte specific Physis Qualifier Codes where applicable, the following were also noted.

ND

MDL is listed due to report format restrictions; it is not used in reporting. Analytical results reported are ND at the RL.

BIANALYTICALS

REPORT

TERRA AURA
ENVIRONMENTAL LABORATORIES, INC.

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Base/Neutral Extractable Compounds

ANALYTE	Method	Units	RESULT	DF	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 99988-R1 HALAWA WELLS P1 331-023-WL065 Matrix: Samplewater Sampled: 12-Sep-22 10:01 Received: 14-Sep-22											
Disalicylidenepropanediamine	EPA 625.1	µg/L	ND	1	0.05	0.1	Total		O-38114	14-Sep-22	18-Sep-22



Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	DF	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 99988-R1 HALAWA WELLS P1 331-023-WL065 Matrix: Samplewater							Sampled: 12-Sep-22 10:01		Received: 14-Sep-22		
(d10-Acenaphthene)	EPA 625.1	% Recovery	86	1			Total		0-38114	14-Sep-22	18-Sep-22
(d10-Phenanthrene)	EPA 625.1	% Recovery	84	1			Total		0-38114	14-Sep-22	18-Sep-22
(d12-Chrysene)	EPA 625.1	% Recovery	60	1			Total		0-38114	14-Sep-22	18-Sep-22
(d12-Perylene)	EPA 625.1	% Recovery	86	1			Total		0-38114	14-Sep-22	18-Sep-22
(d8-Naphthalene)	EPA 625.1	% Recovery	88	1			Total		0-38114	14-Sep-22	18-Sep-22
1-Methylnaphthalene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		0-38114	14-Sep-22	18-Sep-22
1-Methylphenanthrene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		0-38114	14-Sep-22	18-Sep-22
2,3,5-Trimethylnaphthalene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		0-38114	14-Sep-22	18-Sep-22
2,6-Dimethylnaphthalene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		0-38114	14-Sep-22	18-Sep-22
2-Methylnaphthalene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		0-38114	14-Sep-22	18-Sep-22
Acenaphthene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		0-38114	14-Sep-22	18-Sep-22
Acenaphthylene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		0-38114	14-Sep-22	18-Sep-22
Anthracene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		0-38114	14-Sep-22	18-Sep-22
Benz[a]anthracene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		0-38114	14-Sep-22	18-Sep-22
Benzo[a]pyrene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		0-38114	14-Sep-22	18-Sep-22
Benzo[b]fluoranthene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		0-38114	14-Sep-22	18-Sep-22
Benzo[e]pyrene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		0-38114	14-Sep-22	18-Sep-22
Benzo[g,h,i]perylene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		0-38114	14-Sep-22	18-Sep-22
Benzo[k]fluoranthene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		0-38114	14-Sep-22	18-Sep-22
Biphenyl	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		0-38114	14-Sep-22	18-Sep-22
Chrysene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		0-38114	14-Sep-22	18-Sep-22
D benz[a,h]anthracene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		0-38114	14-Sep-22	18-Sep-22
D benzo[a,l]pyrene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		0-38114	14-Sep-22	18-Sep-22
D benzothiophene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		0-38114	14-Sep-22	18-Sep-22

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	DF	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluoranthene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-38114	14-Sep-22	18-Sep-22
Fluorene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-38114	14-Sep-22	18-Sep-22
Indeno[1,2,3-cd]pyrene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-38114	14-Sep-22	18-Sep-22
Naphthalene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-38114	14-Sep-22	18-Sep-22
Perylene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-38114	14-Sep-22	18-Sep-22
Phenanthrene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-38114	14-Sep-22	18-Sep-22
Pyrene	EPA 625.1	µg/L	ND	1	0.001	0.005	Total		O-38114	14-Sep-22	18-Sep-22



QUALITY CONTROL REPORT

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Base/Neutral Extractable Compounds

QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	DF	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	PRECISION %	QA CODE	
						LIMITS			LIMITS			
Sample ID: 99987-B1		QAQC Procedural Blank			Matrix: BlankMatrix			Sampled:		Received:		
		Method: EPA 625.1			Batch ID: O-38114			Prepared: 13-Sep-22		Analyzed: 17-Sep-22		
Disalicylideneprapanediamin	Total	ND	1	0.05	0.1	µg/L						
Sample ID: 99987-BS1		QAQC Procedural Blank			Matrix: BlankMatrix			Sampled:		Received:		
		Method: EPA 625.1			Batch ID: O-38114			Prepared: 13-Sep-22		Analyzed: 17-Sep-22		
Disalicylideneprapanediamin	Total	37.7	1	0.05	0.1	µg/L	50	0	75	50 - 150% PASS		
Sample ID: 99987-BS2		QAQC Procedural Blank			Matrix: BlankMatrix			Sampled:		Received:		
		Method: EPA 625.1			Batch ID: O-38114			Prepared: 13-Sep-22		Analyzed: 17-Sep-22		
Disalicylideneprapanediamin	Total	41.4	1	0.05	0.1	µg/L	50	0	83	50 - 150% PASS	10 30 PASS	

Polynuclear Aromatic Hydrocarbons

QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	DF	MDL	RL	UNITS	SPIKE	SOURCE	ACCURACY	PRECISION	QA CODEc	
							LEVEL	RESULT	% LIMITS	% LIMITS		
Sample ID: 99987-B1		QAQC Procedural Blank			Matrix: BlankMatrix			Sampled:		Received:		
		Method: EPA 625.1			Batch ID: O-38114			Prepared: 13-Sep-22		Analyzed: 17-Sep-22		
(d10-Acenaphthene)	Total	93	1				% Recovery	100	93	65 - 113%	PASS	
(d10-Phenanthrene)	Total	87	1				% Recovery	100	87	80 - 111%	PASS	
(d12-Chrysene)	Total	83	1				% Recovery	100	83	60 - 139%	PASS	
(d12-Perylene)	Total	95	1				% Recovery	100	95	36 - 161%	PASS	
(d8-Naphthalene)	Total	95	1				% Recovery	100	95	44 - 119%	PASS	
1-Methylnaphthalene	Total	ND	1	0.001	0.005	µg/L						
1-Methylphenanthrene	Total	ND	1	0.001	0.005	µg/L						
2,3,5-Trimethylnaphthalene	Total	ND	1	0.001	0.005	µg/L						
2,6-Dimethylnaphthalene	Total	ND	1	0.001	0.005	µg/L						
2-Methylnaphthalene	Total	ND	1	0.001	0.005	µg/L						
Acenaphthene	Total	ND	1	0.001	0.005	µg/L						
Acenaphthylene	Total	ND	1	0.001	0.005	µg/L						
Anthracene	Total	ND	1	0.001	0.005	µg/L						
Benz[a]anthracene	Total	ND	1	0.001	0.005	µg/L						
Benzo[a]pyrene	Total	ND	1	0.001	0.005	µg/L						
Benzo[b]fluoranthene	Total	ND	1	0.001	0.005	µg/L						
Benzo[e]pyrene	Total	ND	1	0.001	0.005	µg/L						
Benzo[g,h,i]perylene	Total	ND	1	0.001	0.005	µg/L						
Benzo[k]fluoranthene	Total	ND	1	0.001	0.005	µg/L						
Biphenyl	Total	ND	1	0.001	0.005	µg/L						
Chrysene	Total	ND	1	0.001	0.005	µg/L						
Dibenz[a,h]anthracene	Total	ND	1	0.001	0.005	µg/L						
Dibenzo[a,l]pyrene	Total	ND	1	0.001	0.005	µg/L						
Dibenzothiophene	Total	ND	1	0.001	0.005	µg/L						

Polynuclear Aromatic Hydrocarbons

QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	DF	MDL	RL	UNITS	SPIKE	SOURCE	ACCURACY		PRECISION		QA CODEc
							LEVEL	RESULT	%	LIMITS	%	LIMITS	
Fluoranthene	Total	ND	1	0.001	0.005	µg/L							
Fluorene	Total	ND	1	0.001	0.005	µg/L							
Indeno[1,2,3-cd]pyrene	Total	ND	1	0.001	0.005	µg/L							
Naphthalene	Total	ND	1	0.001	0.005	µg/L							
Perylene	Total	ND	1	0.001	0.005	µg/L							
Phenanthrene	Total	ND	1	0.001	0.005	µg/L							
Pyrene	Total	ND	1	0.001	0.005	µg/L							

Polynuclear Aromatic Hydrocarbons

QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	DF	MDL	RL	UNITS	SPIKE	SOURCE	ACCURACY	PRECISION	QA CODE	
							LEVEL	RESULT	% LIMITS	% LIMITS		
Sample ID: 99987-BS1		QAQC Procedural Blank			Matrix: BlankMatrix			Sampled:		Received:		
Method: EPA 625.1		Batch ID: O-38114			Prepared: 13-Sep-22		Analyzed: 17-Sep-22					
(d10-Acenaphthene)	Total	92	1			% Recovery	100	0	92	65 - 113%	PASS	
(d10-Phenanthrene)	Total	94	1			% Recovery	100	0	94	80 - 111%	PASS	
(d12-Chrysene)	Total	77	1			% Recovery	100	0	77	60 - 139%	PASS	
(d12-Perylene)	Total	105	1			% Recovery	100	0	105	36 - 161%	PASS	
(d8-Naphthalene)	Total	92	1			% Recovery	100	0	92	44 - 119%	PASS	
1-Methylnaphthalene	Total	0.464	1	0.001	0.005	µg/L	0.5	0	93	49 - 117%	PASS	
1-Methylphenanthrene	Total	0.46	1	0.001	0.005	µg/L	0.5	0	92	66 - 127%	PASS	
2,3,5-Trimethylnaphthalene	Total	0.483	1	0.001	0.005	µg/L	0.5	0	97	57 - 120%	PASS	
2,6-Dimethylnaphthalene	Total	0.466	1	0.001	0.005	µg/L	0.5	0	93	54 - 117%	PASS	
2-Methylnaphthalene	Total	0.459	1	0.001	0.005	µg/L	0.5	0	92	47 - 130%	PASS	
Acenaphthene	Total	0.469	1	0.001	0.005	µg/L	0.5	0	94	53 - 131%	PASS	
Acenaphthylene	Total	0.46	1	0.001	0.005	µg/L	0.5	0	92	43 - 140%	PASS	
Anthracene	Total	0.472	1	0.001	0.005	µg/L	0.5	0	94	58 - 135%	PASS	
Benz[a]anthracene	Total	0.399	1	0.001	0.005	µg/L	0.5	0	80	55 - 145%	PASS	
Benzo[a]pyrene	Total	0.533	1	0.001	0.005	µg/L	0.5	0	107	51 - 143%	PASS	
Benzo[b]fluoranthene	Total	0.553	1	0.001	0.005	µg/L	0.5	0	111	46 - 165%	PASS	
Benzo[e]pyrene	Total	0.553	1	0.001	0.005	µg/L	0.5	0	111	42 - 152%	PASS	
Benzo[g,h,i]perylene	Total	0.501	1	0.001	0.005	µg/L	0.5	0	100	63 - 133%	PASS	
Benzo[k]fluoranthene	Total	0.447	1	0.001	0.005	µg/L	0.5	0	89	56 - 145%	PASS	
Biphenyl	Total	0.473	1	0.001	0.005	µg/L	0.5	0	95	56 - 119%	PASS	
Chrysene	Total	0.414	1	0.001	0.005	µg/L	0.5	0	83	56 - 141%	PASS	
Dibenz[a,h]anthracene	Total	0.643	1	0.001	0.005	µg/L	0.5	0	129	55 - 150%	PASS	
Dibenzo[a,l]pyrene	Total	0.248	1	0.001	0.005	µg/L	0.5	0	50	50 - 150%	PASS	
Dibenzothiophene	Total	0.475	1	0.001	0.005	µg/L	0.5	0	95	75 - 113%	PASS	

Polynuclear Aromatic Hydrocarbons

QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	DF	MDL	RL	UNITS	SPIKE	SOURCE	ACCURACY		PRECISION		QA CODE _c
							LEVEL	RESULT	%	LIMITS	%	LIMITS	
Fluoranthene	Total	0.48	1	0.001	0.005	µg/L	0.5	0	96	60 - 146%	PASS		
Fluorene	Total	0.461	1	0.001	0.005	µg/L	0.5	0	92	58 - 131%	PASS		
Indeno[1,2,3-cd]pyrene	Total	0.597	1	0.001	0.005	µg/L	0.5	0	119	50 - 151%	PASS		
Naphthalene	Total	0.453	1	0.001	0.005	µg/L	0.5	0	91	41 - 126%	PASS		
Perylene	Total	0.458	1	0.001	0.005	µg/L	0.5	0	92	48 - 141%	PASS		
Phenanthrene	Total	0.48	1	0.001	0.005	µg/L	0.5	0	96	67 - 127%	PASS		
Pyrene	Total	0.482	1	0.001	0.005	µg/L	0.5	0	96	54 - 156%	PASS		

Polynuclear Aromatic Hydrocarbons

QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	DF	MDL	RL	UNITS	SPIKE	SOURCE	ACCURACY		PRECISION		QA CODEc		
							LEVEL	RESULT	%	LIMITS	%	LIMITS			
Sample ID: 99987-BS2		QAQC Procedural Blank				Matrix: BlankMatrix			Sampled:		Received:				
		Method: EPA 625.1				Batch ID: O-38114			Prepared: 13-Sep-22		Analyzed: 17-Sep-22				
(d10-Acenaphthene)	Total	86	1				% Recovery	100	0	86	65 - 113%	PASS	7	30	PASS
(d10-Phenanthrene)	Total	83	1				% Recovery	100	0	83	80 - 111%	PASS	12	30	PASS
(d12-Chrysene)	Total	66	1				% Recovery	100	0	66	60 - 139%	PASS	15	30	PASS
(d12-Perylene)	Total	98	1				% Recovery	100	0	98	36 - 161%	PASS	7	30	PASS
(d8-Naphthalene)	Total	89	1				% Recovery	100	0	89	44 - 119%	PASS	3	30	PASS
1-Methylnaphthalene	Total	0.424	1	0.001	0.005	µg/L		0.5	0	85	49 - 117%	PASS	9	30	PASS
1-Methylphenanthrene	Total	0.411	1	0.001	0.005	µg/L		0.5	0	82	66 - 127%	PASS	11	30	PASS
2,3,5-Trimethylnaphthalene	Total	0.443	1	0.001	0.005	µg/L		0.5	0	89	57 - 120%	PASS	9	30	PASS
2,6-Dimethylnaphthalene	Total	0.442	1	0.001	0.005	µg/L		0.5	0	88	54 - 117%	PASS	6	30	PASS
2-Methylnaphthalene	Total	0.429	1	0.001	0.005	µg/L		0.5	0	86	47 - 130%	PASS	7	30	PASS
Acenaphthene	Total	0.447	1	0.001	0.005	µg/L		0.5	0	89	53 - 131%	PASS	5	30	PASS
Acenaphthylene	Total	0.433	1	0.001	0.005	µg/L		0.5	0	87	43 - 140%	PASS	6	30	PASS
Anthracene	Total	0.438	1	0.001	0.005	µg/L		0.5	0	88	58 - 135%	PASS	7	30	PASS
Benz[a]anthracene	Total	0.348	1	0.001	0.005	µg/L		0.5	0	70	55 - 145%	PASS	13	30	PASS
Benzo[a]pyrene	Total	0.551	1	0.001	0.005	µg/L		0.5	0	110	51 - 143%	PASS	3	30	PASS
Benzo[b]fluoranthene	Total	0.522	1	0.001	0.005	µg/L		0.5	0	104	46 - 165%	PASS	7	30	PASS
Benzo[e]pyrene	Total	0.52	1	0.001	0.005	µg/L		0.5	0	104	42 - 152%	PASS	7	30	PASS
Benzo[g,h,i]perylene	Total	0.474	1	0.001	0.005	µg/L		0.5	0	95	63 - 133%	PASS	5	30	PASS
Benzo[k]fluoranthene	Total	0.43	1	0.001	0.005	µg/L		0.5	0	86	56 - 145%	PASS	3	30	PASS
Biphenyl	Total	0.45	1	0.001	0.005	µg/L		0.5	0	90	56 - 119%	PASS	5	30	PASS
Chrysene	Total	0.356	1	0.001	0.005	µg/L		0.5	0	71	56 - 141%	PASS	16	30	PASS
Dibenz[a,h]anthracene	Total	0.649	1	0.001	0.005	µg/L		0.5	0	130	55 - 150%	PASS	1	30	PASS
Dibenzo[a,l]pyrene	Total	0.286	1	0.001	0.005	µg/L		0.5	0	57	50 - 150%	PASS	13	30	PASS
Dibenzothiophene	Total	0.43	1	0.001	0.005	µg/L		0.5	0	86	75 - 113%	PASS	10	30	PASS

Polynuclear Aromatic Hydrocarbons

QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	DF	MDL	RL	UNITS	SPIKE	SOURCE	ACCURACY		PRECISION		QA CODE _c	
							LEVEL	RESULT	%	LIMITS	%	LIMITS		
Fluoranthene	Total	0.436	1	0.001	0.005	µg/L	0.5	0	87	60 - 146%	PASS	10	30	PASS
Fluorene	Total	0.429	1	0.001	0.005	µg/L	0.5	0	86	58 - 131%	PASS	7	30	PASS
Indeno[1,2,3-cd]pyrene	Total	0.599	1	0.001	0.005	µg/L	0.5	0	120	50 - 151%	PASS	1	30	PASS
Naphthalene	Total	0.444	1	0.001	0.005	µg/L	0.5	0	89	41 - 126%	PASS	2	30	PASS
Perylene	Total	0.452	1	0.001	0.005	µg/L	0.5	0	90	48 - 141%	PASS	2	30	PASS
Phenanthrene	Total	0.442	1	0.001	0.005	µg/L	0.5	0	88	67 - 127%	PASS	9	30	PASS
Pyrene	Total	0.446	1	0.001	0.005	µg/L	0.5	0	89	54 - 156%	PASS	8	30	PASS

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PHYSICS

TENTATIVELY

IDENTIFIED COMPOUNDS

ENVIRONMENTAL LABORATORIES, INC.

Innovative Solutions for Nature

Sample ID: 99988

RT	Area Pct	Concentration (ng/L)	Library/ID	Cas Number	Match Qual
32.5086	7.0264	1111	Anthracene-D10	1517-22-2	95
No identifiable TICs were detected in this sample.					

Concentration estimated using the response for Anthracene-d10

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Sample ID: Lab Blank Batch O-38114

RT	Area Pct	Concentration (ng/L)	Library/ID	Cas Number	Match Qual
32.5116	7.6559	1111	Anthracene-D10-	1719-06-8	97
No identifiable TICs were detected in this sample.					

Concentration estimated using the response for Anthracene-d10

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PERFORMANCE CHAIN OF CUSTODY

TERRA ENVIRONMENTAL LABORATORIES, INC. AURA

Innovative Solutions for Nature

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Monrovia, CA (Suite 100)

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

Chain of Custody Record



eurofins
Environmental Testing
America

Client Information (Sub Contract Lab) **Sampler:** Lab Pin: Frank, Debbie L **Carrier Tracking No(s):** 380-21712.1
Shipping/Receiving: Phone: Debbie.Frank@ei.eurofins.com **State of Origin:** Hawaii **Page:** 1 of 1
Company: Physis Environmental Laboratories **Accreditations Required (See note):** State - Hawaii **Job #:** 380-20762-1

Address: 1904 Wright Circle, **Due Date Requested:** 9/20/2022 **Analysis Requested:**
City: Anaheim **TAT Requested (days):**
State, Zip: CA, 92806 **PG #:**
Phone: **WO #:**
Email: **Project #:** 38001111
Project Name: RED-HILL **SSCW#:**
Site: Honolulu BWS Sites

Sample Identification - Client ID (Lab ID) **Sample Date** **Sample Time** **Sample Type (C=comp, G=grab)** **MATRIX (W=waste, Sealed, Overstabil, BT-Tissue, Ash)** **Field Filtered Sample (Yes or No)** **Perform MS/MS (Yes or No)** **SUB (626 PAH Physis LL (EAL) + TICs) / 625 PAH Physis LL (EAL) + TICs** **Total Number of Containers** **Special Instructions/Note:**

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	MATRIX (W=waste, Sealed, Overstabil, BT-Tissue, Ash)	Field Filtered Sample (Yes or No)	Perform MS/MS (Yes or No)	SUB (626 PAH Physis LL (EAL) + TICs) / 625 PAH Physis LL (EAL) + TICs	Total Number of Containers	Special Instructions/Note:
HALAWA WELLS P1 (331-023-WL065) (380-20762-1)	9/12/22	10:01 Hawaiian		Water			X	2	See Attached Instructions

Possible Hazard Identification
Unconfirmed
Deliverable Requested: I, II, III, IV, Other (specify) **Primary Deliverable Rank:** 2
Empty Kit Relinquished by: **Date:**
Relinquished by: **Date/Time:** 9/14/22 13:56 **Company:** PHS's
Relinquished by: **Date/Time:** **Company:**
Relinquished by: **Date/Time:** **Company:**
Custody Seals Intact: **Custody Seal No.:** **Δ Yes Δ No** **Cocler Temperature(s) °C and Other Remarks:**

Note: Since laboratory accreditations are subject to change, Eurofins Eaton Analytical, LLC places the ownership of the samples and 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/ests/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 Eurofins Eaton Analytical, LLC.

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For **Months**
Special Instructions/QC Requirements:

Received by: **Date/Time:** 9/14/22 13:58 **Company:** PHS's
Received by: **Date/Time:** **Company:**
Received by: **Date/Time:** **Company:**

Project Iteration ID: 1407003-293
 Client Name: Eurofins Eaton Analytical
 Project Name: RED-HILL Project # 38001111 Job # 380-20762-1
 COC Page Number: 2 of 2
 Bottle Label Color: NA

Sample Receipt Summary

Receiving Info

1. Initials Received By: BH
2. Date Received: 9/14/22
3. Time Received: 13:58
4. Client Name: Eurofins
5. Courier Information: (Please circle)
 - Client
 - UPS
 - Area Fast
 - DRS
 - FedEx
 - GSO/GLS
 - Ontrac
 - PAMS
 - PHYSIS Driver:
 - i. Start Time: _____
 - ii. End Time: _____
 - iii. Total Mileage: _____
 - iv. Number of Pickups: _____
6. Container Information: (Please put the # of containers or circle none)
 - 1 Cooler
 - Styrofoam Cooler
 - Boxes
 - None
 - Carboy(s)
 - Carboy Trash Can(s)
 - Carboy Cap(s)
 - Other _____
7. What type of ice was used: (Please circle any that apply)
 - Wet Ice
 - Blue Ice
 - Dry Ice
 - Water
 - None
8. Randomly Selected Samples Temperature (°C): 3.3 Used I/R Thermometer # LZ

Inspection Info

1. Initials Inspected By: RGH

Sample Integrity Upon Receipt:

1. COC(s) included and completely filled out..... Yes / No
2. All sample containers arrived intact..... Yes / No
3. All samples listed on COC(s) are present..... Yes / No
4. Information on containers consistent with information on COC(s)..... Yes / No
5. Correct containers and volume for all analyses indicated..... Yes / No
6. All samples received within method holding time..... Yes / No
7. Correct preservation used for all analyses indicated..... Yes / No
8. Name of sampler included on COC(s)..... Yes / No

Notes:

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INTERNAL CHAIN OF CUSTODY RECORD

EUROFINS
 REGIONAL ANALYTICAL
 SAMPLE TEMP RECEIVED:
 Note: If sampler size out of temperature range, let the ASMR know. ASMR will determine whether to proceed with analysis or not.
 SAMPLES REC'D DAY OF COLLECTION: Yes / No

IR Gun ID = 630A (Observation = 5.0 °C) (Corr. Factor = -0.1 °C) (Final = 4.9 °C)
 CONDITION OF ICE: Frozen Partially Frozen Thawed N/A

TYPE OF ICE: Real Synthetic No Ice

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

Compliance Acceptance Criteria:

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 the same day as sample collection, within 8 hours)

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

If all temperature ranges for both Chemistry and Microbiology samples and temperatures does not comply, then measure the temperature of each quadrant and record each temperature of the quadrant

4) pH (1815 or 2, 3, 7, 8 TOPP): 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: Saneate, Lot No.: _____ Expiration Date: _____ Results: _____

7) VOC and Radon Headspace: _____ No Samples With Headspace (see below): _____ Samples With Headspace (see below): _____

Headspace Documentation (Use additional VOC and Radon Internal COFC for additional bottles)
 Methods: 816, 4, 8A, 823, 822, 806, 87M, 808, 809, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000

Example from headspace container: Methods: 816, 4, 8A, 823, 822, 806, 87M, 808, 809, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000

Sample ID Balls # _____ Test _____

Sample ID Balls # _____ Test _____

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RECEIVED BY: Heidi Cant Heron Custro
 SIGNATURE: Heidi Cant
 REGIONAL ANALYTICAL
 SAMPLES RECEIVED DATE: 9/13/22
 TIME: 1245

RECEIVED BY: Mark Urcatic
 SIGNATURE: Mark Urcatic
 REGIONAL ANALYTICAL
 SAMPLES RECEIVED DATE: 9/13/22
 TIME: 1245



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ORIGIN ID:HIKA
 BMS-CHEMLAB
 HONOLULU BOARD OF WATER SUPPLY
 630 S. BERETANIA ST.
 CHEMICAL LABORATORY
 HONOLULU, HI 96843
 UNITED STATES US

(808) 748-5840
 SHIP DATE: 12SEP22
 ACTWGT: 75.00 LB
 CAD: 100205419/NET4530

BILL RECIPIENT

TO **C CHUCK**
EUROFINS EATON ANALYTICAL, INC
750 ROYAL OAKS DR
SUITE 100
MONROVIA CA 91016
 (626) 386-1178 REF
 INV PO DEPT

581J1/EC8C/FE2D



TUE - 13 SEP 10:30A
 PRIORITY OVERNIGHT

TRK# 7779 1186 3785

WZ WHPA
 91016
 CA-US BUR



After printing this label:
 1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
 2. Fold the printed page along the horizontal line.
 3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.
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Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-20762-1

Login Number: 20762

List Source: Eurofins Eaton Monrovia

List Number: 1

Creator: Ngo, Theodore

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	